

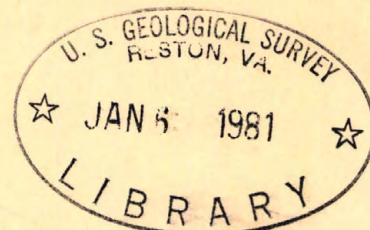
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Water Resources Data for Louisiana

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 1971

OCTOBER 1970

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

NOVEMBER 1970

S	M	T	W	T	F	S
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22	23	24	25	26	27	28
29	30					

DECEMBER 1970

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
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20	21	22	23	24	25	26
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JANUARY 1971

S	M	T	W	T	F	S
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10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEBRUARY 1971

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

MARCH 1971

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

APRIL 1971

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

MAY 1971

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

JUNE 1971

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

JULY 1971

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

AUGUST 1971

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

SEPTEMBER 1971

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

1971

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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, Water Quality Office

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

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FOR WHICH RECORDS ARE PUBLISHED

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

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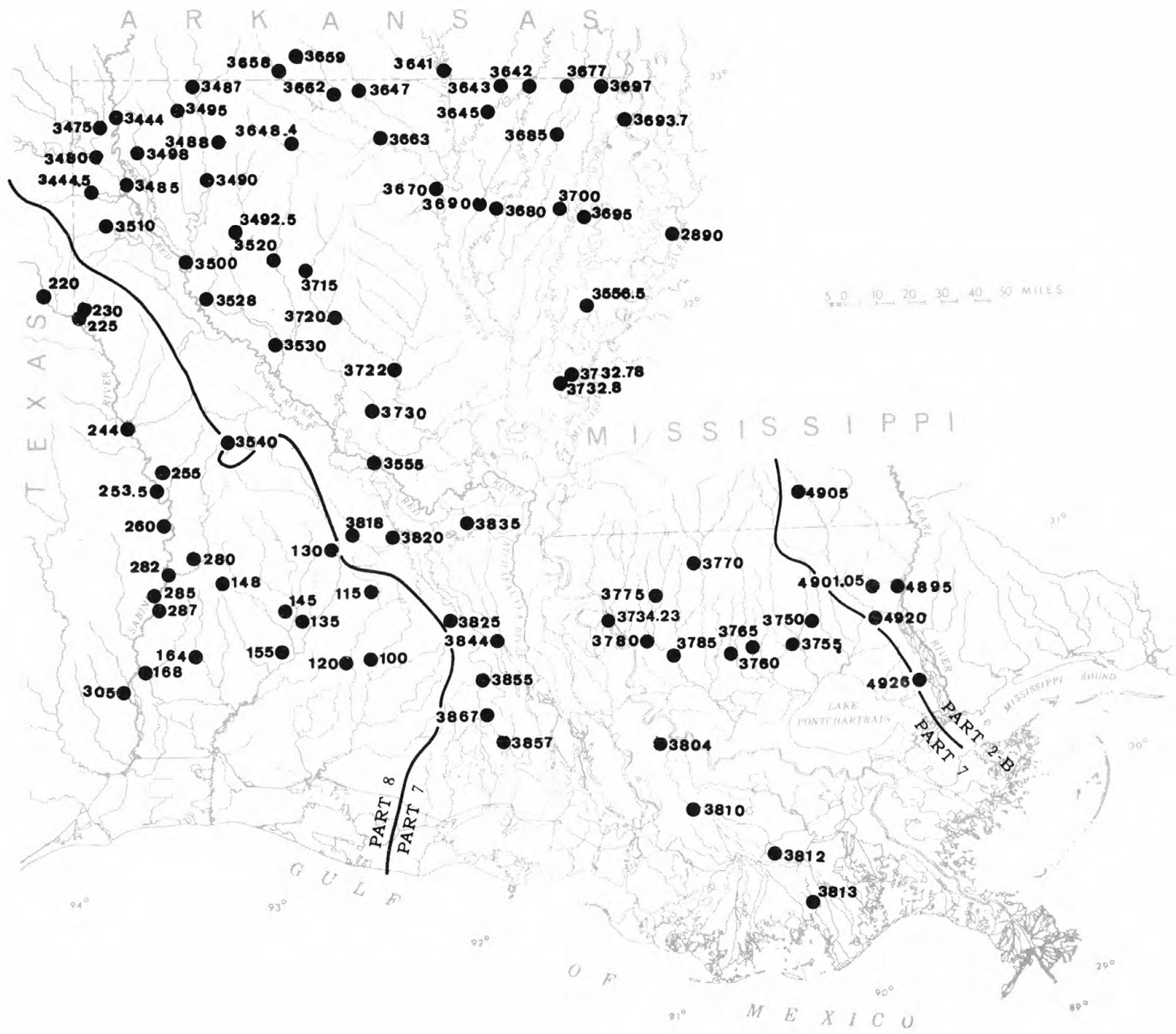


Figure 1.-- Map showing location of continuous-gaging stations.



Figure 2.-- Map showing location of partial-record stations.

WATER RESOURCES DATA FOR LOUISIANA, 1971

Part 1. Surface-Water Records

Part 2. Water-Quality Records

INTRODUCTION

Water-resources data for the 1971 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. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The streamflow records for 1961-65 also are published in a Geological Survey water-supply paper series entitled, "Surface Water Supply of the United States 1961-65," and those for 1966-70 will be published in a similar series.

The Geological Survey has published records of chemical quality, suspended sediment, and water temperatures since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records also have been released on a State-boundary basis in conjunction with streamflow records or in a separate volume.

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, C. H. Downs, 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 C. H. Downs for Louisiana; Guy Cowser 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 collecting records for 28 gaging 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 defined as follows:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 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, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 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)--Adequate dissolved oxygen is necessary for the life of fish and other aquatic organisms and is an indicator for corrosivity of water, photosynthetic activity, and septicity. It is one of the most important indicators of the condition of a water supply for biological, chemical and sanitary investigations (Rose, 1965).

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. Concentration of suspended sediment expressed in milligrams per liter is based on the weight of sediment in a liter of water-sediment mixture. One thousand micrograms per liter is equal to one milligram per liter. 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>
Ammonia as NH_4^{+1} -----	0.05544	Magnesium (Mg^{+2})--	0.08226
Bicarbonate (HCO_3^{-1})--	.01639	Manganese (Mn^{+2})*--	.03640
Calcium (Ca^{+2})-----	.04990	Nickel (Ni^{+2})*----	.03406
Carbonate (CO_3^{-2})----	.03333	Nitrate (NO_3^{-1})---	.01613
Chloride (Cl^{-1})-----	.02821	Nitrite (NO_2^{-1})---	.02174
Chromium (Cr^{+6})*-----	.11539	Phosphate (PO_4^{-3})--	.03159
Cobalt (Co^{+2})*-----	.03394	Potassium (K^{+1})---	.02557
Copper (Cu^{+2})*-----	.03148	Sodium (Na^{+1})----	.04350
Fluoride (F^{-1})-----	.05264	Sulfate (SO_4^{-2})---	.02082
Iron (Fe^{+3})*-----	.05372	Zinc (Zn^{+2})*-----	.03060
Lead (Pb^{+2})*-----	.00965		

*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.

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.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

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

DOWNSTREAM ORDER AND STATION NUMBERS

Records 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 indentation, each indentation representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging station; 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, includes the part number "02" and a 6-digit number. This number appears just to the left of the station name. In this report the records are listed in downstream order by parts. 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.

PART 1. 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-, 30-, or 60-minute intervals) or from direct

readings on a non-recording 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 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 1971 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. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first

paragraph headed "Current year" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record" the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES". Unless otherwise qualified, the maximum discharge 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 non-recording 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 (or gage height) at the end of the month and the change in contents during the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month, rather than the elevation or gage height. For some reservoirs a tabulation of monthly evaporation from the water surface also is included.

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 preceeding 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 period October 1960 to September 1965 are in Water-Supply Papers 1906, 1920, and 1922.

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.

PART 2. 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 once 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 quality, biological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Water-temperature data represent once-daily observations except for stations where a continuous-temperature recorder furnished information from which daily minimums and maximums are obtained. 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 to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperatures are given 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 below.

Table 1.--Degrees Fahrenheit (°F) to degrees Celsius (°C)*
(Temperature reported to nearest 0.5°C)

<u>°F</u>	<u>°C</u>	<u>°F</u>	<u>°C</u>	<u>°F</u>	<u>°C</u>	<u>°F</u>	<u>°C</u>	<u>°F</u>	<u>°C</u>
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 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 loads 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 2.--Water-supply paper numbers and parts, water years, 1941-68

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	A2014
1953	1290	1292	1968	2092	B2096
1954	1350	1352			C2097
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.
- Rose, Arthur and Elizabeth, 1965, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 5th ed., p. 412.

PART 1. SURFACE WATER RECORDS

SURFACE-WATER RECORDS

21

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.--33 years, 8,582 cfs (17.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 39,700 cfs Mar. 10 (gage height, 19.61 ft); minimum, 1,440 cfs Oct. 6 (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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,970	4,510	2,860	11,000	7,940	19,800	24,900	7,980	11,000	4,280	8,720	2,870
2	1,910	5,020	2,720	12,700	7,340	24,100	23,500	7,070	7,430	4,510	11,200	2,750
3	1,750	4,830	2,640	13,600	6,640	30,700	21,800	7,440	5,820	5,040	11,900	2,880
4	1,610	4,140	2,620	13,100	6,160	33,800	20,700	8,310	5,150	5,970	12,200	3,230
5	1,520	3,620	2,700	13,200	6,180	34,900	20,600	8,980	4,760	6,060	12,100	3,520
6	1,460	3,620	2,660	13,900	6,560	35,800	20,500	9,320	4,550	4,950	11,800	3,760
7	1,820	3,370	2,530	12,600	7,900	37,100	18,700	9,700	4,430	3,980	11,600	3,670
8	2,620	3,060	2,420	11,400	10,500	38,100	15,800	10,500	4,210	3,600	11,000	3,440
9	2,730	2,900	2,380	10,500	11,800	38,500	13,200	11,600	4,280	3,500	10,000	3,300
10	2,310	2,900	2,400	9,140	11,600	39,500	11,900	12,600	4,590	3,600	8,840	3,160
11	1,940	2,910	2,420	7,970	11,000	39,500	11,000	12,100	4,280	3,640	7,890	3,320
12	1,970	2,820	2,540	7,500	10,300	39,300	9,930	12,500	4,010	3,570	7,930	4,070
13	3,310	2,660	3,120	6,990	11,000	39,100	8,780	18,800	3,700	3,370	7,900	4,190
14	6,180	2,770	3,200	6,280	12,100	37,900	7,750	24,200	3,540	3,180	6,960	3,520
15	8,320	3,500	2,960	5,770	13,400	37,300	7,100	27,300	3,390	3,020	5,820	3,020
16	9,670	4,080	4,690	5,660	13,800	36,600	6,460	28,300	3,150	2,920	5,070	3,400
17	9,100	4,860	7,140	6,470	12,900	35,600	5,480	29,300	3,040	2,800	4,680	5,580
18	7,620	4,640	6,830	8,180	11,700	34,700	4,640	29,900	3,260	2,740	4,380	8,550
19	6,470	3,990	5,420	9,250	10,700	34,300	4,280	30,500	2,990	2,820	4,060	14,500
20	5,780	3,520	4,470	9,140	10,600	34,000	4,210	30,800	2,950	2,800	3,740	17,800
21	6,230	3,610	4,100	8,390	10,800	34,200	4,350	32,400	3,010	4,100	3,230	18,000
22	8,250	4,060	4,100	7,690	10,700	34,500	5,130	34,300	2,970	5,840	2,950	14,500
23	9,560	4,540	4,060	7,530	13,600	34,500	6,300	35,100	3,100	4,480	2,990	10,400
24	9,560	4,860	4,120	8,180	15,700	33,800	8,290	34,700	3,280	3,700	3,040	8,210
25	9,140	4,810	4,500	7,460	16,500	32,100	10,600	34,700	3,600	3,830	2,950	7,730
26	8,960	4,640	4,480	6,040	16,300	27,900	12,900	34,700	3,500	4,100	2,820	7,870
27	8,480	4,470	4,660	5,780	16,600	21,800	13,400	35,400	3,450	4,160	2,750	7,080
28	7,680	4,160	4,730	8,140	17,900	19,400	12,200	35,400	3,920	4,270	2,650	6,320
29	6,300	3,690	4,870	9,490	-----	20,100	10,600	34,700	3,870	4,240	2,460	5,870
30	5,160	3,180	7,620	8,980	-----	22,500	9,200	31,800	4,100	4,760	2,370	5,490
31	4,560	-----	9,640	8,330	-----	24,700	-----	20,500	-----	6,660	2,490	-----
TOTAL	163,940	115,740	125,600	280,360	318,220	1,006,100	354,200	700,900	125,330	126,590	198,490	192,000
MEAN	5,288	3,858	4,052	9,044	11,360	32,450	11,810	22,610	4,178	4,084	6,403	6,400
MAX	9,670	5,020	9,640	13,900	17,900	39,500	24,900	35,400	11,000	6,660	12,200	18,000
MIN	1,460	2,660	2,380	5,660	6,160	19,400	4,210	7,070	2,950	2,740	2,370	2,750
CFSM	.80	.58	.61	1.36	1.71	4.89	1.78	3.41	.63	.62	.97	.97
IN.	.92	.65	.70	1.57	1.79	5.64	1.99	3.93	.70	.71	1.11	1.08
CAL YR 1970:	TOTAL	2,087,010	MEAN	5,718	MAX	20,400	MIN	1,460	CFSM	.86	IN.	11.70
CAL YR 1971:	TOTAL	3,707,470	MEAN	10,160	MAX	39,500	MIN	1,460	CFSM	1.53	IN.	20.79

PEARL RIVER BASIN

02490105 Bogue Lusa Creek at State Highway 439, at Bogalusa, La.

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.--8 years, 80.9 cfs (15.11 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,860 cfs Sept. 17 (gage height, 6.72 ft); minimum, 21 cfs Oct. 4-6 (gage height, 3.68 ft).

Period of record: Maximum discharge, 3,840 cfs Feb. 12, 1966 (gage height, 9.13 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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	41	37	246	61	114	90	40	33	338	264	56
2	22	39	37	152	57	544	84	40	32	175	518	66
3	22	37	37	116	55	615	86	37	31	115	223	66
4	22	35	37	269	61	330	78	35	31	306	123	82
5	21	35	37	231	182	191	70	35	30	211	112	119
6	22	35	35	131	152	157	65	35	29	107	85	108
7	92	35	35	103	388	163	63	35	31	79	69	127
8	304	35	35	123	302	133	62	40	34	70	62	98
9	205	39	35	130	198	113	60	71	34	67	82	65
10	111	77	35	106	138	176	58	66	46	61	69	119
11	74	74	39	115	113	169	57	51	49	52	58	304
12	121	50	60	105	194	122	55	477	73	47	52	512
13	570	45	86	92	291	110	53	498	49	42	48	186
14	496	121	63	86	185	104	53	247	37	39	43	104
15	214	139	121	80	130	96	51	113	35	37	40	109
16	115	83	545	74	110	88	50	79	36	36	39	921
17	83	60	287	69	98	80	50	63	124	38	37	1,480
18	65	53	139	66	89	75	50	54	239	71	36	699
19	58	48	100	62	84	208	50	50	89	68	44	266
20	55	45	84	59	235	170	49	49	94	52	48	216
21	53	43	74	58	255	111	49	63	211	225	48	173
22	48	43	67	58	225	94	61	64	79	157	55	133
23	45	39	63	79	164	90	68	49	100	81	61	130
24	45	39	88	257	119	86	59	42	141	59	63	116
25	48	39	100	193	103	80	51	41	402	69	107	101
26	45	39	80	115	165	77	47	38	122	72	68	87
27	41	39	66	88	235	73	44	38	92	62	50	116
28	48	39	60	74	149	71	45	39	105	55	43	100
29	63	39	145	69	-----	150	43	39	82	55	39	80
30	55	37	296	67	-----	202	41	37	127	80	49	71
31	45	-----	402	65	-----	124	-----	35	-----	159	62	-----
TOTAL	3,232	1,522	3,325	3,538	4,538	4,916	1,742	2,600	2,617	3,085	2,697	6,810
MEAN	104	50.7	107	114	162	159	58.1	83.9	87.2	99.5	87.0	227
MAX	570	139	545	269	388	615	90	498	402	338	518	1,480
MIN	21	35	35	58	55	71	41	35	29	36	36	56
CFSM	1.43	.70	1.47	1.57	2.23	2.19	.80	1.15	1.20	1.37	1.20	3.12
IN.	1.65	.78	1.70	1.81	2.32	2.52	.89	1.33	1.34	1.58	1.38	3.48
CAL YR 1970	TOTAL 24,547	MEAN 67.3	MAX 570	MIN 19	CFSM .93	IN 12.56						
WTR YR 1971	TOTAL 40,622	MEAN 111	MAX 1,480	MIN 21	CFSM 1.53	IN 20.79						

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
9-17	0245	6.72	1,860				

PEARL RIVER BASIN

23

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 current year.

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

AVERAGE DISCHARGE.--27 years, 753 cfs (20.37 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,930 cfs Sept. 17; maximum gage height, 17.63 ft Mar. 3; minimum discharge, 200 cfs Oct. 10-12; minimum gage height, 6.36 ft Aug. 30-31.

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, 6.36 ft Sept. 29 to Oct. 1, Oct. 4-6, 1969, Aug. 30-31, 1971.

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

REMARKS.--Records good.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	393	243	2,490	289	3,200	1,810	273	327	411	1,100	281
2	232	315	240	1,900	280	4,310	1,020	268	318	870	660	295
3	219	278	240	975	275	7,970	1,280	261	309	961	482	348
4	211	257	238	1,130	279	7,110	923	256	309	835	436	354
5	205	247	236	1,550	552	4,820	641	254	324	523	523	330
6	204	241	236	916	1,020	2,400	527	252	345	427	617	327
7	208	237	233	640	980	1,110	462	266	385	388	456	315
8	205	234	232	541	1,130	906	417	332	324	351	376	289
9	205	237	233	510	1,260	752	389	708	300	330	436	267
10	202	233	234	495	866	662	368	604	295	315	401	261
11	201	231	240	479	604	626	351	487	315	312	360	278
12	242	232	258	447	844	607	337	3,790	303	303	330	388
13	1,320	234	259	416	2,030	546	325	7,370	295	295	309	275
14	2,190	462	265	394	1,910	566	317	4,470	278	292	295	256
15	1,620	1,040	286	375	1,390	521	309	3,280	267	286	281	253
16	762	1,050	1,430	352	745	455	302	1,390	261	284	275	1,760
17	431	525	2,110	340	587	412	297	787	258	303	267	6,810
18	342	386	1,400	331	499	392	296	610	267	336	258	7,300
19	390	334	676	318	447	1,270	330	510	289	298	256	5,150
20	1,100	310	508	307	413	2,890	340	920	281	336	256	2,450
21	1,340	299	425	298	460	3,220	328	1,700	303	861	253	1,260
22	751	367	379	295	1,160	2,480	460	839	385	452	261	910
23	458	314	355	316	1,630	881	964	584	339	342	272	660
24	361	278	345	378	1,520	658	1,000	476	513	336	281	584
25	314	263	335	507	731	561	483	430	336	330	327	503
26	286	256	317	419	937	572	359	414	339	336	354	452
27	272	252	302	362	2,470	865	321	411	357	613	342	456
28	302	249	292	331	2,460	662	304	469	333	656	272	401
29	385	247	530	313	-----	719	290	388	336	534	253	372
30	447	244	990	305	-----	2,170	281	363	398	796	245	354
31	541	-----	2,820	298	-----	2,210	-----	342	-----	1,150	245	-----
TOTAL	16,205	10,245	16,887	18,728	27,768	56,523	15,831	33,504	9,689	14,862	11,479	33,939
MEAN	523	342	545	604	992	1,823	528	1,081	323	479	370	1,131
MAX	2,190	1,050	2,820	2,490	2,470	7,970	1,810	7,370	513	1,150	1,100	7,300
MIN	201	231	232	295	275	392	281	252	258	284	245	253
CFSM	1.04	.68	1.09	1.20	1.98	3.63	1.05	2.15	.64	.95	.74	2.25
IN.	1.20	.76	1.25	1.39	2.06	4.19	1.17	2.48	.72	1.10	.85	2.52
CAL YR 1970	TOTAL 165,088	MEAN 452	MAX 2,820	MIN 201	CFSM .90	IN 12.23						
WTR YR 1971	TOTAL 265,660	MEAN 728	MAX 7,970	MIN 201	CFSM 1.45	IN 19.69						

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-03	2000	17.63	8,860	9-17	2200	17.52	8,930
5-13	0800	16.78	7,890				

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.--34 years, 1,786 cfs (20.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,200 cfs May 15 (gage height, 11.25 ft); minimum, 517 cfs Oct. 6 (gage height, 2.44 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	858	926	662	4,410	947	3,340	2,800	742	1,190	1,840	2,100	739
2	682	930	655	5,360	854	3,590	2,870	746	960	1,610	2,190	774
3	604	816	651	5,050	821	5,290	2,490	721	859	1,500	1,880	947
4	565	739	651	3,870	816	7,720	2,170	672	816	1,530	1,380	1,100
5	541	697	623	3,350	1,040	9,040	2,040	648	787	1,650	1,240	1,390
6	523	669	651	3,910	1,300	9,690	1,730	630	846	1,460	1,090	1,500
7	631	658	640	3,390	2,250	7,760	1,470	634	800	1,140	1,160	1,260
8	1,330	651	640	2,690	3,050	4,960	1,320	686	808	943	1,070	1,010
9	1,480	679	630	2,210	2,950	2,980	1,190	763	850	850	989	867
10	1,100	763	620	1,930	2,650	2,580	1,090	888	837	791	918	767
11	812	808	620	1,800	2,300	2,490	1,020	1,080	783	739	905	812
12	736	725	620	1,710	2,010	2,270	939	1,480	871	714	863	1,170
13	1,950	683	640	1,570	2,520	2,110	913	3,770	795	686	787	1,260
14	3,080	888	1,000	1,430	3,000	2,000	901	8,600	714	672	735	1,070
15	3,600	1,240	1,500	1,340	3,160	1,910	867	11,900	693	655	700	863
16	3,250	1,360	2,000	1,250	2,960	1,840	842	9,690	676	627	676	1,820
17	2,510	1,550	2,930	1,170	2,330	1,720	821	6,080	641	627	648	4,040
18	1,670	1,390	3,090	1,110	1,740	1,620	825	3,290	606	742	609	7,480
19	1,210	1,080	3,000	1,070	1,490	1,940	837	2,170	655	679	571	10,200
20	1,070	939	2,380	1,020	1,970	2,450	812	1,790	669	672	577	9,830
21	1,230	846	1,670	981	2,360	2,970	821	2,510	728	829	623	8,560
22	1,670	800	1,350	960	2,020	3,340	943	4,420	707	1,070	616	5,820
23	1,700	783	1,200	947	1,910	3,580	1,250	3,760	714	1,150	886	3,440
24	1,350	795	1,220	1,530	2,200	2,890	1,250	2,340	778	918	780	2,420
25	1,110	749	1,440	2,020	2,330	2,080	1,420	1,850	955	905	720	1,890
26	972	725	1,380	1,700	2,180	1,810	1,260	1,660	1,040	934	686	1,620
27	867	711	1,200	1,400	2,300	1,640	985	1,550	922	880	669	1,500
28	863	693	1,090	1,200	2,960	1,590	833	1,540	939	1,120	676	1,370
29	896	683	1,100	1,090	-----	1,700	778	1,540	875	1,190	641	1,250
30	896	672	1,930	1,040	-----	1,940	746	1,600	1,010	1,190	606	1,130
31	901	-----	3,200	993	-----	2,340	-----	1,410	-----	1,510	693	-----
TOTAL	40,657	25,648	40,983	63,501	58,418	103,180	38,233	81,160	24,524	31,823	28,684	77,899
MEAN	1,312	855	1,322	2,048	2,086	3,328	1,274	2,618	817	1,027	925	2,597
MAX	3,600	1,550	3,200	5,360	3,160	9,690	2,870	11,900	1,190	1,840	2,190	10,200
MIN	523	651	620	947	816	1,590	746	630	606	627	571	739
CFSM	1.08	.71	1.09	1.69	1.72	2.75	1.05	2.16	.68	.85	.76	2.15
IN.	1.25	.79	1.26	1.95	1.80	3.17	1.18	2.50	.75	.98	.88	2.39
CAL YR 1970	TOTAL	390,689	MEAN	1,070	MAX	3,720	MIN	523	CFSM	.88	IN	12.01
WTR YR 1971	TOTAL	614,710	MEAN	1,684	MAX	11,900	MIN	523	CFSM	1.39	IN	18.90

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
3-06	0700	10.77	9,920	9-19	1700	10.90	10,500
5-15	0815	11.25	12,200				

PEARL RIVER BASIN

25

02492000 Bogue Chitto near Bush, La.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.52	3.57	2.89	8.74	3.62	7.93	7.21	3.11	4.18	5.54	6.05	3.11
2	2.99	3.58	2.87	9.31	3.40	8.14	7.33	3.13	3.65	5.06	6.20	3.21
3	2.73	3.31	2.86	9.14	3.32	9.25	6.69	3.06	3.41	4.86	5.61	3.62
4	2.60	3.11	2.86	8.37	3.31	10.22	6.16	2.92	3.31	4.92	4.59	3.96
5	2.52	2.99	2.78	7.94	3.84	10.56	5.94	2.85	3.24	5.15	4.28	4.63
6	2.46	2.91	2.85	8.41	4.43	10.72	5.31	2.80	3.38	4.77	3.95	4.86
7	2.81	2.88	-	7.96	6.22	10.23	4.80	2.81	3.27	4.05	4.10	4.33
8	4.62	2.86	-	7.03	7.57	9.06	4.46	2.96	3.29	3.61	3.90	3.78
9	4.94	2.94	-	6.23	7.44	7.45	4.18	3.17	3.39	3.39	3.72	3.43
10	4.10	3.18	-	5.72	6.95	6.85	3.96	3.47	3.36	3.25	3.55	3.19
11	3.39	3.29	-	5.45	6.39	6.70	3.79	3.93	3.23	3.11	3.52	3.30
12	3.16	3.07	-	5.27	5.88	6.32	3.60	4.78	3.44	3.04	3.42	4.13
13	5.83	2.95	-	4.99	6.74	6.06	3.54	8.18	3.26	2.96	3.24	4.33
14	7.64	3.47	-	4.70	7.52	5.86	3.51	10.38	3.04	2.92	3.10	3.91
15	8.17	4.28	-	4.50	7.73	5.68	3.43	11.19	2.98	2.87	3.00	3.42
16	7.82	4.56	-	4.32	7.44	5.53	3.37	10.71	2.93	2.78	2.93	5.38
17	6.71	4.95	7.41	4.14	6.42	5.29	3.32	9.63	2.83	2.79	2.85	8.45
18	5.17	4.62	7.64	4.01	5.33	5.09	3.33	7.77	2.73	3.12	2.74	10.10
19	4.23	3.94	7.51	3.90	4.84	5.73	3.36	6.16	2.87	2.94	2.62	10.84
20	3.90	3.60	6.49	3.79	5.78	6.64	3.30	5.44	2.91	2.92	2.64	10.75
21	4.27	3.38	5.19	3.70	6.47	7.46	3.32	6.59	3.08	3.34	2.78	10.44
22	5.18	3.27	4.54	3.65	5.90	7.93	3.61	8.75	3.02	3.90	2.76	9.52
23	5.26	3.23	4.20	3.62	5.68	8.15	4.30	8.22	3.04	4.08	3.49	7.97
24	4.53	3.26	4.25	4.89	6.20	7.30	4.30	6.43	3.22	3.55	-	6.57
25	4.01	3.14	4.73	5.90	6.44	6.00	4.69	5.56	3.63	3.52	-	5.64
26	3.68	3.07	4.61	5.24	6.17	5.48	4.33	5.17	3.82	3.59	2.96	5.08
27	3.43	3.03	4.20	4.65	6.36	5.12	3.71	4.95	3.56	3.46	2.91	4.86
28	3.42	2.98	3.95	4.20	7.45	5.03	3.35	4.94	3.59	4.01	2.93	4.57
29	3.50	2.95	3.98	3.96	-----	5.26	3.22	4.94	3.44	4.17	2.83	4.30
30	3.50	2.92	5.68	3.83	-----	5.74	3.13	5.06	3.70	4.17	2.73	4.04
M31	3.51	-----	7.75	3.73	-----	6.44	-----	4.67	-----	4.86	2.98	-----
MAX	8.17	4.95	-----	9.31	7.73	10.72	7.33	11.19	4.18	5.54	6.20	10.84
MIN	2.46	2.86	-----	3.62	3.31	5.03	3.13	2.80	2.73	2.78	2.62	3.11

PEARL RIVER BASIN

02492600 Pearl River at Pearl River, La.

LOCATION.--Lat 30°23'08", long 89°44'12", in NE¼ sec.1, T.8 S., R.14 E., St. Helena meridian, on right bank fender at downstream side of West Pearl River bridge on U.S. Highway 11, 500 ft upstream from Southern Railway bridge, 0.5 mile upstream from old channel, and 0.8 mile northeast of town of Pearl River.

DRAINAGE AREA.--8,590 sq mi (including East Pearl River).

PERIOD OF RECORD.--Discharge: October 1963 to September 1970. Daily discharge October 1961 to September 1963 in files of Corps of Engineers, Mobile district.

Gage heights: Since June 6, 1906, in reports of U.S. Weather Bureau. Oct. 1, 1899, to May 31, 1906, (collected by Southern Railway System) on file at the U.S. Weather Bureau, Meridian, Miss.

GAGE.--West Pearl: Water-stage recorder. Datum of gage is 0.36 ft above mean sea level. Supplementary water-stage recorder since June 18, 1964, 500 ft downstream at same datum. Auxiliary water-stage recorder 7.4 miles upstream. Datum of auxiliary gage is mean sea level.

East Pearl: Water-stage recorder used for gage heights below 13.5 ft. Datum of gage is mean sea level. Supplementary staff gage 9.8 miles upstream at same datum. Auxiliary water-stage recorder 6.5 miles downstream. Datum of auxiliary gage is 0.12 ft below mean sea level.

AVERAGE DISCHARGE.--7 years, 9,470 cfs (14.97 inches per year).

EXTREMES.--1969-70: Maximum daily discharge, 21,600 cfs Mar. 26; minimum daily, 2,160 cfs July 9.

Period of record: Maximum discharge, 114,700 cfs Feb. 18, 1966 (gage height, 17.61 ft); minimum daily, 1,580 cfs Oct. 24, Nov. 10, 1963.

Maximum stage reported by U.S. Weather Bureau, 18.6 ft Mar. 16, 1921, maximum stage reported by the Southern Railway System at railroad gage, 19.7 ft Apr. 19, 1900. Flood of 1874 reached a stage of 20.2 ft (furnished by Corps of Engineers).

REMARKS.--Records of daily discharge are the combined flow of the entire flood plain of the West and East Pearl Rivers. Flow is affected by tide below about 4,000 cfs.

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

NOTE.--Records for 1971 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07289000 Mississippi River at Vicksburg, Miss.

LOCATION.--Lat 32°18'45", long 90°54'25", in T.16N., 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 (corrected).

PERIOD OF RECORD.--Discharge: January 1928 to September 1970 (records for 1971 water year not available). Prior to July 1931, monthly discharge only, published in WSP 1311.

Gage heights: April 1930 to September 1969 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 1970 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.--42 years, 552,700 cfs (400,400,000 acre-ft per year).

EXTREMES.--1969-70: Maximum daily discharge, 1,304,000 cfs May 16; maximum gage height, 40.56 ft May 17, at bridge gage, 42.14 ft at supplementary recorder; minimum daily discharge, 222,000 cfs Sept. 19, minimum gage height, 4.86 ft Sept. 19 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.--One hundred and two discharge measurements furnished by Corps of Engineers. Records of daily discharge computed jointly by Corps of Engineers and Geological Survey.

REVISIONS.--WSP 747: Drainage area.

NOTE.--Records for 1971 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	414	419	420	336	724	716	1,103	836	622	272	299
2	282	393	406	452	330	719	718	1,110	790	615	262	291
3	266	375	390	490	326	700	721	1,116	750	558	254	281
4	260	359	380	540	331	680	722	1,127	709	521	250	272
5	259	347	372	595	358	659	724	1,149	688	495	248	260
6	262	337	360	650	442	647	727	1,179	650	477	258	251
7	258	329	351	707	493	633	733	1,205	636	452	276	247
8	251	318	348	776	547	630	744	1,230	637	432	285	240
9	250	314	330	851	594	637	762	1,236	638	412	294	239
10	249	327	322	892	621	643	837	1,245	650	399	303	240
11	247	326	328	922	647	652	877	1,258	670	389	311	247
12	245	328	341	930	669	664	915	1,266	705	377	325	257
13	244	328	347	911	692	681	942	1,275	718	368	345	258
14	243	327	354	855	697	699	951	1,287	728	359	376	251
15	244	319	362	795	699	720	960	1,302	739	348	397	244
16	248	304	362	743	707	754	969	1,304	735	338	417	236
17	265	292	363	660	709	756	977	1,300	725	328	431	229
18	278	281	363	602	711	743	980	1,271	706	315	438	225
19	310	279	351	568	720	733	979	1,236	695	316	437	222
20	408	284	349	520	728	733	975	1,201	674	327	430	231
21	458	318	352	486	731	730	958	1,168	672	320	392	261
22	539	322	361	452	738	730	942	1,155	684	311	369	279
23	598	329	370	426	742	729	926	1,125	688	305	345	300
24	625	335	384	411	748	710	909	1,108	690	301	321	321
25	615	345	398	397	741	699	892	1,100	691	302	301	346
26	580	359	400	383	738	698	891	1,069	691	304	290	370
27	544	380	398	374	737	697	902	1,040	675	305	283	398
28	500	402	391	364	729	700	935	1,010	653	302	292	426
29	475	408	385	358	-----	704	984	950	642	293	301	449
30	458	413	392	349	-----	711	1,035	903	632	290	310	470
31	441	-----	408	342	-----	712	-----	865	-----	284	308	-----
TOTAL	11,200	10,192	11,437	18,221	17,261	21,627	26,303	35,893	20,797	11,765	10,121	8,640
MEAN	361	340	369	588	616	698	877	1,158	693	380	326	288
MAX	625	414	419	930	748	756	1,035	1,304	836	622	438	470
MIN	243	279	322	342	326	630	716	865	632	284	248	222
AC-FT	22,220	20,220	22,690	36,140	34,240	42,900	52,170	71,190	41,250	23,340	20,080	17,140
CAL YR 1969	TOTAL	222,412	MEAN	609.3	MAX	1,404	MIN	243	AC-FT	441,200		
WTR YR 1970	TOTAL	203,467	MEAN	557.4	MAX	1,304	MIN	222	AC-FT	403,600		

NOTE.--Discharge computed from records of supplementary recorder.

RED RIVER BASIN

07344400 Red River near Hosston, La.

LOCATION.--Lat 32°53'35", long 93°49'20", in SW $\frac{1}{4}$ 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.

DRAINAGE AREA.--57,041 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

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

GAGE.--Nonrecording gage read once daily. Datum of gage is 161.56 ft above mean sea level (levels by Corps of Engineers). Prior to Feb. 20, 1962, water-stage recorder at same site and datum.

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

EXTREMES.--Current year: Maximum gage height, 13.03 ft Nov. 1 (observed), discharge not determined; minimum daily discharge, 2,000 cfs Sept. 30.

Period of record: Maximum discharge, 214,000 cfs May 7, 1958 (gage height, 27.89 ft); minimum daily, 850 cfs Nov. 15, 16, 1963.

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 1971 are established in Part 2 of this report. See following page for table of daily gage height.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										3,130		
2										3,320		
3										3,190		
4										3,340		
5										3,190		
6										3,190		
7										3,300		4,600
8										4,310		4,000
9							4,540					
10							4,220					
11							4,100					
12							4,180			4,660		
13										4,020		
14			4,750							4,370		
15			4,430							4,710		
16			4,980						4,940	4,580		
17									4,680	3,740		
18							4,710		4,180	3,460		
19							4,500		4,000	3,190		4,100
20							4,180		4,180	3,170		3,130
21							4,520		4,900	3,460		2,900
22										4,200		2,900
23									4,980	4,500		3,100
24									3,640			3,300
25									3,840			3,300
26									4,390			3,000
27									4,100			2,600
28									3,540			2,200
29									3,090			2,100
30									2,940			2,000
31		-----			-----		-----		-----			-----
MAX	-	-	-	-	-	-	-	-	-	-	-	-
MIN	-	-	4,430	-	-	-	4,100	-	2,940	3,130	-	2,000

RED RIVER BASIN

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07344400 Red River near Hosston, La.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.00	12.95	6.59	8.09	5.95	10.67	5.33	9.96	5.42	3.78	6.46	5.83
2	8.83	12.32	6.40	8.16	5.81	10.23	5.25	9.21	5.08	3.88	6.08	5.37
3	8.33	11.44	5.97	8.09	5.26	9.63	5.48	8.55	6.89	3.81	6.06	4.98
4	7.64	10.66	5.43	8.07	4.77	9.36	5.62	7.92	7.08	3.89	6.30	4.88
5	7.04	9.95	5.19	8.10	5.24	9.38	5.43	6.93	6.56	3.81	6.22	4.83
6	6.90	9.41	5.20	8.27	5.43	9.30	5.18	6.14	5.85	3.81	5.76	4.75
7	6.64	8.87	5.15	9.81	5.48	9.10	4.95	5.72	5.34	3.87	5.77	4.51
8	6.20	8.38	5.20	10.14	5.53	8.85	4.72	5.72	5.18	4.37	5.13	-
9	5.76	8.29	5.38	9.99	5.33	8.91	4.48	5.38	5.95	4.94	5.26	-
10	5.75	8.12	5.41	10.26	5.54	8.99	4.33	5.18	7.04	5.20	5.09	6.79
11	6.52	7.76	5.30	9.90	5.72	8.67	4.27	5.45	7.23	4.92	5.01	7.16
12	6.31	7.35	5.11	8.97	5.51	8.09	4.31	7.04	6.59	4.54	4.94	7.07
13	6.32	7.31	4.94	8.28	6.03	7.80	4.77	9.35	5.70	4.23	4.89	6.75
14	7.24	7.48	4.58	7.93	7.58	8.66	4.93	10.72	5.20	4.40	5.07	6.32
15	8.70	7.46	4.43	7.71	8.84	10.77	4.96	11.08	4.79	4.56	5.55	6.10
16	10.41	7.27	4.69	7.57	9.39	11.86	5.00	10.30	4.67	4.50	5.95	5.96
17	11.70	7.20	-	7.33	9.67	11.61	4.78	9.24	4.55	4.09	6.15	5.27
18	11.99	7.49	5.90	7.38	9.55	11.01	4.56	8.17	4.31	3.95	6.00	4.94
19	11.46	8.13	6.17	7.77	9.16	10.36	4.46	7.12	4.22	3.81	5.89	4.27
20	10.72	8.90	6.01	8.17	8.75	9.71	4.31	6.48	4.31	3.80	5.83	3.78
21	9.92	8.76	5.83	8.27	8.34	9.02	4.47	6.10	4.65	3.95	5.73	-
22	9.64	8.65	5.96	8.01	7.77	8.34	5.13	5.81	4.97	4.32	5.64	-
23	9.25	8.58	6.41	7.78	7.89	7.65	5.56	5.18	4.69	4.46	5.61	-
24	8.55	8.64	6.91	7.24	8.43	6.96	6.06	4.89	4.04	4.94	5.57	3.87
25	7.97	8.29	7.21	6.18	9.85	6.47	9.59	5.20	4.14	6.19	5.29	3.87
26	7.65	7.72	7.34	6.69	11.56	6.18	12.15	5.48	4.41	6.81	5.09	-
27	7.82	7.59	7.46	6.75	11.61	5.96	12.92	5.43	4.27	7.27	5.37	-
28	9.39	7.38	7.75	6.32	11.12	5.76	12.81	5.46	3.99	7.63	5.82	-
29	10.82	6.83	7.91	5.93	-----	5.57	12.07	5.91	3.76	7.37	6.07	-
30	11.90	6.54	8.08	5.57	-----	5.35	11.05	5.93	3.68	6.87	6.02	-
31	12.70	-----	8.07	5.81	-----	5.37	-----	5.50	-----	6.70	5.96	-----
MAX	12.70	12.95	8.08	10.26	11.61	11.86	12.92	11.08	7.23	7.63	6.46	7.16
MIN	5.75	6.54	4.43	5.57	4.77	5.35	4.27	4.89	3.68	3.78	4.89	-

RED RIVER BASIN

07344450 Paw Paw Bayou near Greenwood, La.

LOCATION.--Lat 32°31'00", long 93°58'20", in SE¼ 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.--16 years, 56.7 cfs (9.87 inches per year, 41,080 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,580 cfs Feb. 20 (gage height, 9.88 ft); no flow on many days.

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 water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	0	5.5	1.5	7.4	1.7	28	52	3.2	.02	0	0	0		
2	0	3.3	1.7	7.2	1.6	23	31	2.9	.01	0	0	0		
3	0	2.2	1.7	7.1	1.5	21	22	2.6	0	0	.01	0		
4	0	1.5	1.0	7.4	1.9	19	18	2.3	0	0	.03	0		
5	0	1.1	.89	12	5.4	17	15	2.0	0	0	.03	0		
6	0	.86	.84	13	20	16	13	1.8	0	0	2.1	0		
7	0	.62	.84	9.6	15	14	12	2.5	0	0	.52	0		
8	0	.50	.74	7.2	10	13	11	3.4	0	0	.03	0		
9	0	1.9	.63	6.0	7.4	13	10	3.8	0	0	.24	0		
10	0	2.9	.63	5.5	5.9	33	9.8	6.0	0	0	.94	0		
11	0	8.7	.63	5.1	4.8	42	9.3	15	0	0	.38	0		
12	0	5.5	.68	5.0	8.2	50	8.9	17	0	0	.28	0		
13	0	9.0	.63	4.9	69	155	8.3	16	0	0	.16	0		
14	0	58	.54	4.9	55	96	7.7	12	0	0	.32	0		
15	0	99	.74	4.4	98	46	7.1	7.4	0	0	5.7	2.4		
16	0	34	1.0	4.1	304	28	6.7	4.6	4.5	0	2.3	1.8		
17	0	14	.79	3.6	386	20	6.5	3.0	3.0	0	.73	.98		
18	0	8.6	.74	3.4	135	17	8.5	2.0	.88	0	.25	.17		
19	0	5.6	.84	2.8	292	15	18	1.4	.46	0	.10	.05		
20	0	4.3	73	2.5	1,320	13	19	1.0	.21	0	.04	.01		
21	0	3.5	300	2.3	838	12	15	.74	.16	0	.02	0		
22	0	2.9	450	2.3	390	11	14	.58	.07	0	0	.14		
23	0	2.5	300	2.8	182	11	14	.47	.03	0	0	.21		
24	0	2.5	65	2.8	71	10	23	.33	.01	0	0	.12		
25	0	2.5	27	2.8	46	9.8	14	.20	0	0	0	.06		
26	0	2.3	17	2.8	41	9.4	9.5	.17	0	0	0	.03		
27	9.8	2.0	13	2.5	48	9.2	7.0	.12	0	0	0	.01		
28	147	1.7	9.8	2.3	40	10	5.3	.08	0	0	0	.01		
29	193	1.5	8.3	2.1	-----	148	4.3	.05	0	0	0	0		
30	46	1.5	7.5	2.2	-----	313	3.7	.04	0	.02	0	0		
31	11	-----	7.4	2.2	-----	204	-----	.02	-----	0	0	-----		
TOTAL	406.8	289.98	1,295.06	150.2	4,398.4	1,426.4	403.6	112.70	9.35	.02	14.18	5.99		
MEAN	13.1	9.67	41.8	4.85	157	46.0	13.5	3.64	.31	.0006	.46	.20		
MAX	193	99	450	13	1,320	313	52	17	4.5	.02	5.7	2.4		
MIN	0	.50	.54	2.1	1.5	9.2	3.7	.02	0	0	0	0		
CFSM	.17	.12	.54	.06	2.01	.59	.17	.05	.004	0	.006	.003		
IN.	.19	.14	.62	.07	2.10	.68	.19	.05	.004	0	.006	.002		
AC-FT	807	575	2,570	298	8,720	2,830	801	224	19	.04	28	12		
CAL YR 1970	TOTAL	16,328.44	MEAN	44.7	MAX	1,050	MIN	0	CFSM	.57	IN	7.79	AC-FT	32,390
WTR YR 1971	TOTAL	8,512.68	MEAN	23.3	MAX	1,320	MIN	0	CFSM	.30	IN	4.06	AC-FT	16,880

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-20	0930	9.88	1,580				

07347500 Black Bayou near Gilliam, La.

LOCATION.--Lat 32°48'55", long 93°52'15", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.21 N., R.15 W., Caddo Parish, near left bank on downstream side of bridge on State Highway 170, 0.2 mile downstream from Red Bayou and 2 miles southwest of Gilliam.

DRAINAGE AREA.--364 sq mi.

PERIOD OF RECORD.--August 1942 to September 1959, October 1959 to June 1969 (gage heights only), July 1969 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 155.59 ft above mean sea level. Prior to Dec. 13, 1948, nonrecording gage at same site and datum. Since July 1, 1969, auxiliary water-stage recorder 5.5 miles downstream. Datum of auxiliary gage is 155.89 ft above mean sea level. Auxiliary nonrecording gage Jan. 26, 1945, to Oct. 25, 1949; auxiliary water-stage recorder Oct. 26, 1949, to Sept. 30, 1959, at same site and datum.

AVERAGE DISCHARGE.--19 years (1942-59, 1969-71), 362 cfs (13.51 inches per year, 262,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,410 cfs July 27; maximum gage height, 13.53 ft July 28; minimum discharge, 7.6 cfs June 14, 15 (gage height, 2.28 ft).

1942-59, 1969-71: Maximum discharge, 17,700 cfs Apr. 29, 1958; minimum, 1.6 cfs July 26, 1943, and July 1, 1969.

Period of record: Maximum gage height, 27.52 ft Apr. 27, 1966; minimum, 1.86 ft Aug. 29, 1966.

REMARKS.--Records good. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	96	92	145	94	286	118	199	16	15	660	62
2	9.8	84	91	148	90	255	109	174	13	16	673	60
3	10	76	87	143	92	277	96	133	12	30	771	58
4	9.8	68	85	216	106	241	86	129	11	36	721	55
5	9.8	60	82	219	116	238	81	119	10	23	545	52
6	11	55	78	216	107	235	82	109	9.3	21	408	50
7	12	52	75	185	115	231	71	157	8.8	21	363	47
8	15	49	73	166	123	194	65	164	8.6	20	305	45
9	24	73	71	148	116	166	59	128	8.2	21	260	43
10	25	76	70	140	109	162	58	141	8.1	21	210	41
11	32	148	72	136	99	148	57	248	8.1	21	171	39
12	34	178	72	127	163	152	54	315	7.9	22	143	37
13	34	148	68	122	191	638	52	346	7.9	22	126	35
14	34	495	65	119	216	1,030	48	329	7.8	22	113	34
15	32	591	66	114	740	811	46	302	7.8	22	104	32
16	30	552	76	104	542	573	44	266	8.2	22	94	32
17	27	484	73	100	403	407	43	210	8.2	23	86	32
18	24	322	81	95	351	372	51	161	7.9	30	79	31
19	24	290	84	92	481	348	58	149	8.1	30	73	31
20	23	270	460	85	528	261	73	114	7.9	28	69	31
21	21	250	327	80	569	216	79	96	8.6	27	65	31
22	21	222	237	82	638	188	119	94	9.4	30	62	34
23	24	191	240	87	523	162	209	75	11	38	60	45
24	38	160	196	168	467	142	221	62	11	123	68	118
25	34	134	166	128	386	124	173	53	10	551	73	82
26	35	118	150	104	400	128	153	44	10	1,060	81	54
27	55	110	134	92	364	126	161	36	11	1,610	88	42
28	231	104	123	89	317	124	145	28	11	1,860	79	35
29	283	102	119	87	-----	225	146	21	12	1,360	71	31
30	216	97	116	92	-----	167	175	18	14	999	68	28
31	132	-----	134	90	-----	137	-----	15	-----	738	65	-----
TOTAL	1,520.2	5,655	3,863	3,919	8,446	8,764	2,932	4,435	292.8	8,862	6,754	1,347
MEAN	49.0	188	125	126	302	283	97.7	143	9.76	286	218	44.9
MAX	283	591	460	219	740	1,030	221	346	16	1,860	771	118
MIN	9.8	49	65	80	90	124	43	15	7.8	15	60	28
CFSM	.13	.52	.34	.35	.83	.78	.27	.39	.03	.79	.60	.12
IN.	.16	.58	.39	.40	.86	.90	.30	.45	.03	.91	.69	.14
AC-FT	3,020	11,220	7,660	7,770	16,750	17,380	5,820	8,800	581	17,580	13,400	2,670
CAL YR 1970:	TOTAL	96,075.8	MEAN	263	MAX	1,550	MIN	4.0	CFSM	.72	IN.	9.82
WTR YR 1971:	TOTAL	56,790.0	MEAN	156	MAX	1,860	MIN	7.8	CFSM	.43	IN.	5.80
AC-FT 190,600												
AC-FT 112,600												

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
7-27	0800	a13.53	2,410				

a At 0600 on July 28

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.--29 years, 2,487 cfs (10.77 inches per year, 1,802,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,440 cfs Feb. 22 (gage height, 10.02 ft); minimum discharge, 1.1 cfs Oct. 7; minimum gage height, 0.99 ft Sept. 17.

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 observed, 0.2 cfs Nov. 1, 6, 1963; minimum gage height, 0.99 ft Sept. 17, 1971.

REMARKS.--Records good. Flow regulated by Ellison Creek Reservoir (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 water temperatures for the water year 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	2.9	1,540	284	496	213	1,610	686	969	50	9.2	646	29		
2	17	1,460	261	456	180	1,470	602	826	37	11	573	18		
3	7.5	1,190	266	401	255	1,580	511	584	29	12	589	14		
4	3.2	862	194	715	410	1,290	438	527	23	36	635	12		
5	2.2	635	190	579	478	1,150	426	516	16	53	608	11		
6	1.4	448	117	473	351	1,370	508	471	12	36	600	9.8		
7	1.2	295	131	448	339	1,210	346	506	9.8	25	580	23		
8	2.1	199	127	649	431	1,000	304	529	9.2	17	550	17		
9	4.7	368	136	826	382	913	261	431	7.8	14	530	7.0		
10	3.8	259	125	767	341	1,120	237	446	6.5	11	500	9.8		
11	3.9	246	203	660	279	997	224	560	6.0	11	450	5.5		
12	5.5	328	153	573	560	1,080	209	688	6.0	9.5	474	4.6		
13	6.5	275	110	501	511	1,150	199	649	5.8	9.8	486	8.5		
14	6.0	736	94	461	436	1,670	95	724	5.5	9.5	456	8.5		
15	6.0	836	84	424	688	1,890	127	839	5.4	9.5	434	7.0		
16	341	739	248	368	1,230	1,630	110	813	6.0	9.8	368	3.2		
17	787	694	132	368	1,070	1,510	110	651	5.8	9.5	318	2.7		
18	955	694	118	349	900	1,470	201	496	5.7	11	277	4.7		
19	920	683	149	330	1,440	1,600	194	471	5.7	11	246	8.2		
20	691	688	397	275	1,560	1,210	304	385	6.0	11	218	7.0		
21	436	611	852	284	1,610	958	323	302	6.5	11	190	3.1		
22	293	616	755	325	2,200	573	279	239	11	22	164	3.2		
23	199	547	736	237	1,670	638	611	213	7.5	31	136	4.2		
24	79	491	624	377	1,530	630	592	201	7.5	92	145	7.0		
25	14	401	674	431	1,560	640	649	166	7.5	237	134	99		
26	8.0	409	611	392	1,880	638	896	118	7.5	774	124	91		
27	84	370	576	279	1,880	597	1,420	115	7.2	927	117	60		
28	339	349	553	321	1,680	537	1,530	66	7.2	1,740	84	34		
29	576	330	540	344	-----	715	1,340	50	8.0	1,690	55	22		
30	1,050	293	501	337	-----	736	1,160	44	8.2	1,610	57	15		
31	1,320	-----	611	184	-----	643	-----	44	-----	823	50	-----		
TOTAL	8,165.9	17,592	10,552	13,630	26,064	34,225	14,892	13,639	336.3	8,282.8	10,794	549.0		
MEAN	263	586	340	440	931	1,104	496	440	11.2	267	348	18.3		
MAX	1,320	1,540	852	826	2,200	1,890	1,530	969	50	1,740	646	99		
MIN	1.2	199	84	184	180	537	95	44	5.4	9.2	50	2.7		
CFSM	.08	.19	.11	.14	.30	.35	.16	.14	.004	.09	.11	.006		
IN.	.10	.21	.13	.16	.31	.41	.18	.16	.004	.10	.13	.007		
AC-FT	16,200	34,890	20,930	27,040	51,700	67,890	29,540	27,050	667	16,430	21,410	1,090		
CAL YR 1970:	TOTAL	616,727.0	MEAN	1,690	MAX	8,230	MIN	1.2	CFSM	.54	IN.	7.31	AC-FT	1,223,000
WTR YR 1971:	TOTAL	158,722.0	MEAN	435	MAX	2,200	MIN	1.2	CFSM	.14	IN.	1.88	AC-FT	314,800

RED RIVER BASIN

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07348000 Twelvemile Bayou near Dixie, La.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.47	7.68	3.66	4.54	3.34	7.86	5.20	5.88	2.15	1.43	4.24	1.48
2	2.00	7.47	3.56	4.38	3.18	7.51	4.90	5.46	2.03	1.45	4.00	1.41
3	1.76	6.75	3.58	4.16	3.53	7.79	4.55	4.64	1.93	1.46	4.06	1.37
4	1.50	5.81	3.25	5.35	4.17	7.02	4.26	4.42	1.85	1.66	4.24	1.35
5	1.39	5.07	3.23	4.86	4.47	6.64	4.21	4.38	1.75	1.76	4.14	1.34
6	1.20	4.35	2.84	4.45	3.95	7.24	4.52	4.20	1.67	1.64	-	1.32
7	1.12	3.71	2.92	4.35	3.90	6.80	3.86	4.34	1.62	1.55	-	1.44
8	1.36	3.27	2.90	5.12	4.28	6.22	3.68	4.43	1.60	1.48	-	1.40
9	1.62	4.02	2.95	5.70	4.08	5.96	3.49	4.04	1.55	1.44	-	1.26
10	1.55	3.55	2.89	5.52	3.91	6.56	3.38	4.10	1.51	1.40	-	1.32
11	1.56	3.49	3.29	5.16	3.64	6.20	3.32	4.55	1.49	1.39	-	1.21
12	1.67	3.85	3.04	4.84	4.79	6.45	3.25	5.02	1.48	1.36	3.41	1.17
13	1.72	3.62	2.80	4.56	4.60	6.64	3.20	4.88	1.47	1.36	3.46	1.30
14	1.70	5.42	2.70	4.40	4.30	8.02	2.66	5.14	1.45	1.35	3.34	1.30
15	1.70	5.73	2.63	4.25	5.26	8.60	2.82	5.50	1.44	1.34	3.25	1.26
16	3.85	5.43	3.50	4.02	6.85	7.92	2.72	5.42	1.46	1.34	2.99	1.10
17	5.58	5.28	2.93	4.02	6.40	7.60	2.72	4.89	1.45	1.33	2.79	1.06
18	6.08	5.28	2.85	3.94	5.92	7.49	3.19	4.30	1.44	1.35	2.61	1.18
19	5.98	5.24	3.02	3.86	7.42	7.84	3.16	4.20	1.43	1.35	2.48	1.29
20	5.27	5.26	4.14	3.62	7.75	6.79	3.62	3.85	1.44	1.35	2.35	1.26
21	4.30	4.98	5.78	3.66	7.86	6.09	3.73	3.50	1.45	1.35	2.23	1.09
22	3.70	5.00	5.48	3.84	9.40	5.84	3.54	3.22	1.55	1.44	2.10	1.10
23	3.27	4.74	5.42	3.45	8.02	5.08	4.88	3.10	1.46	1.50	1.96	1.18
24	2.60	4.52	5.03	4.06	7.65	5.05	4.81	3.14	1.45	1.77	2.00	1.30
25	1.95	4.16	5.21	4.28	7.75	5.09	5.02	2.87	1.44	2.51	1.95	1.90
26	1.78	4.19	4.98	4.12	8.57	5.08	5.81	2.62	1.43	4.62	1.90	1.90
27	2.63	4.03	4.85	3.64	8.57	4.93	7.24	2.60	1.42	5.18	1.87	1.74
28	3.90	3.94	4.76	3.82	8.04	4.70	7.56	2.28	1.41	7.29	1.72	1.60
29	4.85	3.86	4.71	3.92	-----	5.35	6.90	2.15	1.42	7.02	1.61	1.52
30	6.34	3.70	4.56	3.89	-----	5.42	6.42	2.10	1.42	6.87	1.62	1.46
31	7.10	-----	4.98	3.20	-----	5.10	-----	2.10	-----	4.80	1.59	-----
MAX	7.10	7.68	5.78	5.70	9.40	8.60	7.56	5.88	2.15	7.29	4.24	1.90
MIN	1.12	3.27	2.63	3.20	3.18	4.70	2.66	2.10	1.41	1.33	1.59	1.06

RED RIVER BASIN

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 1970. 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.--41 years, 24,230 cfs (17,560,000 acre-ft per year).

EXTREMES.--1969-70: Maximum daily discharge, 101,000 cfs Apr. 30, May 1; minimum, 3,100 cfs July 15; minimum gage height, 5.36 ft Aug. 1.

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 1971 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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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.--14 years, 473 cfs (10.62 inches per year, 342,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,280 cfs May 18 (gage height, 11.93 ft, from floodmark); minimum, 1.9 cfs June 29 (gage height, 2.87 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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	67	55	111	340	527	270	120	28	4.5	412	7.3
2	3.8	66	54	114	294	431	269	179	26	3.3	293	6.1
3	3.6	60	52	133	213	355	250	236	26	3.8	224	5.2
4	3.3	51	51	169	163	298	211	232	23	3.9	256	4.7
5	3.1	44	49	182	151	255	172	189	17	3.4	321	4.2
6	3.6	38	48	205	142	230	146	153	14	3.1	406	3.8
7	4.4	33	46	237	147	216	128	146	11	3.8	486	3.4
8	5.8	30	45	253	157	210	115	126	9.6	3.4	553	3.1
9	17	55	44	239	167	206	106	128	7.8	4.1	637	2.9
10	10	57	43	204	168	199	98	182	6.3	4.4	743	2.7
11	9.3	53	42	173	160	185	92	276	5.5	3.6	722	2.6
12	16	68	41	152	171	178	86	614	4.8	3.0	624	2.5
13	22	121	39	137	180	625	81	1,000	4.2	2.5	498	2.4
14	22	266	38	128	188	810	77	1,100	3.6	2.1	332	2.2
15	21	267	39	120	240	816	74	1,150	3.2	2.1	190	2.1
16	24	274	48	113	324	828	70	1,200	3.3	2.3	126	2.1
17	26	315	49	108	362	848	67	1,250	3.1	2.6	122	2.0
18	26	339	50	104	406	841	70	1,260	2.6	3.4	135	2.0
19	24	338	61	98	581	744	74	1,200	2.3	3.3	122	2.0
20	23	300	105	93	715	571	85	1,100	2.1	3.0	90	2.1
21	21	238	143	89	703	420	157	1,000	2.1	2.9	70	2.1
22	18	182	187	86	778	332	327	736	2.5	4.7	50	3.6
23	17	144	250	85	796	269	490	374	2.8	7.5	50	6.2
24	29	118	275	247	828	215	441	160	2.5	107	40	4.0
25	24	100	270	187	842	181	456	103	2.4	131	30	3.1
26	22	86	244	159	819	169	450	77	2.3	190	22	2.8
27	29	76	205	160	745	165	387	62	2.1	418	18	6.4
28	42	68	172	188	638	180	255	50	2.0	663	16	53
29	41	62	148	238	-----	289	158	41	2.1	637	14	63
30	41	58	130	290	-----	270	127	34	9.4	709	12	44
31	55	-----	118	330	-----	272	-----	29	-----	531	9.3	-----
TOTAL	610.8	3,974	3,141	5,132	11,418	12,135	5,789	14,507	233.6	3,466.7	7,623.3	253.6
MEAN	19.7	132	101	166	408	391	193	468	7.79	112	246	8.45
MAX	55	339	275	330	842	848	490	1,260	28	709	743	63
MIN	3.1	30	38	85	142	165	67	29	2.0	2.1	9.3	2.0
CFSM	.03	.22	.17	.27	.67	.65	.32	.77	.01	.19	.41	.01
IN.	.04	.24	.19	.32	.70	.75	.36	.89	.01	.21	.47	.02
AC-FT	1,210	7,880	6,230	10,180	22,650	24,070	11,480	28,770	463	6,880	15,120	503

CAL YR 1970 TOTAL 181,876.2 MEAN 498 MAX 5,020 MIN 1.6 CFSM .82 IN 11.18 AC-FT 360,800
WTR YR 1971 TOTAL 68,284.0 MEAN 187 MAX 1,260 MIN 2.0 CFSM .31 IN 4.20 AC-FT 135,400

PEAK DISCHARGE (BASE, 3,000 CFS).--No peak above the base.

RED RIVER BASIN

07348800 Flat Lick Bayou near Leton, La.

LOCATION.--Lat 32°46'11", long 93°15'58", in NW¹/₄ 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.--15 years, 52.2 cfs (10.60 inches per year, 37,820 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 934 cfs May 12 (gage height, 8.96 ft); no flow at times.

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, 1963-71.

REMARKS.--Records fair. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	2.0	0	7.7	3.1	16	9.6	2.7	4.4	.51	1.9	.04
2	.07	1.5	0	7.0	2.5	15	9.9	2.3	4.2	.87	1.9	1.2
3	.06	1.1	0	7.0	2.3	14	8.6	2.0	2.5	.59	9.9	4.3
4	.05	.93	.22	9.3	2.8	13	7.9	1.7	1.7	.22	7.8	2.0
5	.04	.78	.59	8.8	3.7	12	7.4	1.7	1.4	.11	14	1.2
6	.03	.67	.51	7.5	3.7	12	6.5	1.6	1.2	.05	15	.79
7	.03	.61	.45	6.8	3.6	11	5.8	7.8	.94	.04	12	.34
8	.05	.59	.42	6.8	3.5	9.0	5.4	6.6	.75	.02	6.5	.08
9	.06	3.3	.40	6.8	3.2	8.4	5.1	5.0	.54	.02	11	.04
10	.07	2.8	.42	7.1	2.9	18	4.8	7.8	.36	0	10	.08
11	.06	1.5	.45	7.1	2.9	20	4.4	22	.28	0	3.6	.05
12	.05	1.1	.45	6.8	6.9	18	4.1	338	.21	0	2.3	.03
13	.04	2.2	.42	6.5	9.0	20	4.3	523	.17	0	1.7	0
14	.26	8.3	.38	6.3	8.2	20	4.5	251	.12	0	1.2	0
15	.15	8.1	.42	5.9	12	17	4.5	92	.08	0	.87	0
16	.10	7.8	.83	5.0	22	14	4.5	50	.09	0	.62	0
17	.08	6.6	.94	4.6	19	12	4.5	34	.19	0	.54	0
18	.07	5.0	.62	4.5	17	12	4.9	23	.13	0	.45	0
19	.14	3.9	.75	4.1	31	13	5.3	18	.06	0	.38	0
20	.38	2.6	42	3.6	55	12	5.0	15	.04	0	.28	0
21	.31	1.8	115	3.4	45	11	5.5	12	.08	0	.21	0
22	.18	1.4	63	3.7	40	10	5.6	9.7	.26	0	.15	1.1
23	.24	1.1	39	4.8	28	9.9	6.9	7.6	.14	.42	.28	5.8
24	.73	.87	25	5.0	22	9.0	6.5	6.1	.08	.51	.54	5.0
25	.56	.79	17	4.8	19	8.3	4.8	4.7	.06	.75	1.7	2.8
26	.27	.79	12	4.5	21	8.1	3.4	3.8	.04	.59	.83	2.3
27	2.4	.83	9.7	4.0	21	7.8	2.8	15	.02	1.2	.34	1.7
28	5.0	.79	8.8	3.6	18	7.8	2.6	7.8	.19	2.6	.17	1.3
29	3.7	.75	8.1	3.5	-----	11	2.7	5.1	.79	3.2	.08	.94
30	3.3	.30	7.8	3.6	-----	12	2.8	3.5	.30	2.8	.04	.68
31	2.8	-----	8.1	3.6	-----	10	-----	2.6	-----	2.7	.03	-----
TOTAL	21.36	70.80	363.77	173.7	428.3	391.3	160.6	1,483.1	21.32	17.20	106.31	31.77
MEAN	.69	2.36	11.7	5.60	15.3	12.6	5.35	47.8	.71	.55	3.43	1.06
MAX	5.0	8.3	115	9.3	55	20	9.9	523	4.4	3.2	15	5.8
MIN	.03	.30	0	3.4	2.3	7.8	2.6	1.6	.02	0	.03	0
CFSM	.01	.04	.17	.08	.23	.19	.08	.71	.01	.008	.05	.02
IN.	.01	.04	.20	.10	.24	.22	.09	.82	.01	.009	.06	.02
AC-FT	42	140	722	345	850	776	319	2,940	42	34	211	63

CAL YR 1970 TOTAL 17,223.33 MEAN 47.2 MAX 1,540 MIN 0 CFSM .71 IN 9.58 AC-FT 34,160
 WTR YR 1971 TOTAL 3,269.53 MEAN 8.96 MAX 523 MIN 0 CFSM .13 IN 1.82 AC-FT 6,490

PEAK DISCHARGE (BASE, 500 CFS).--May 12 (2400) 934 cfs (8.96 ft).

RED RIVER BASIN

37

07349000 Bayou Dorchest near Minden, La.

LOCATION.--Lat 32°35'55", long 93°19'59", 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, 0.7 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, supplemental water-stage recorder 4.6 miles upstream at different datum used for low stages.

AVERAGE DISCHARGE.--38 years, 1,072 cfs (13.27 inches per year, 776,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,400 cfs May 20 (gage height, 11.31 ft); minimum, 0.52 cfs July 22; minimum gage height, 1.52 ft Oct. 17.

Period of record: Maximum discharge, 44,800 cfs May 1, 1958 (gage height, 24.90 ft); practically no flow during October, November, and part of December 1936, no flow at times in 1954, 1956, 1964, 1969, and 1970.

REMARKS.--Records fair. Records of water temperatures for the water year 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	51	86	230	280	1,300	750	619	87	6.8	900	30
2	4.8	53	79	201	310	1,150	814	390	84	7.5	980	26
3	4.5	55	72	179	340	950	796	274	79	8.7	958	26
4	3.8	60	67	177	350	830	714	238	67	9.3	814	20
5	3.5	69	63	173	350	714	644	270	58	9.3	626	18
6	3.2	71	61	180	300	638	509	314	51	7.8	512	19
7	2.8	72	59	216	250	560	425	423	45	6.5	496	17
8	3.0	71	57	247	210	500	350	336	40	5.6	523	15
9	3.5	86	56	270	190	441	291	270	36	4.9	558	13
10	3.0	84	55	297	180	388	246	252	31	4.2	612	11
11	4.8	75	54	314	180	390	217	304	28	3.7	638	9.0
12	8.9	68	53	308	210	382	197	656	24	3.2	710	7.8
13	9.2	73	51	281	230	382	180	904	20	2.7	791	6.3
14	9.6	93	49	247	220	382	167	1,030	18	2.4	764	4.9
15	9.6	110	50	219	250	394	153	1,260	18	2.0	755	4.2
16	9.6	149	54	195	380	654	143	1,570	16	1.6	701	4.0
17	9.6	219	58	177	420	1,000	135	1,880	13	1.6	541	3.5
18	9.6	295	59	163	480	1,210	130	2,150	11	1.3	332	3.0
19	15	324	57	150	550	1,330	128	2,320	9.3	1.1	210	3.0
20	19	326	89	140	650	1,350	127	2,390	8.7	.72	163	2.6
21	22	334	254	132	720	1,300	131	2,380	8.7	.56	148	2.4
22	22	342	405	126	950	1,180	166	2,270	7.5	.60	137	2.4
23	24	332	512	122	1,200	971	229	2,070	7.0	.56	120	2.4
24	29	291	560	122	1,350	778	400	1,820	7.0	1.2	107	2.4
25	30	236	528	117	1,400	634	600	1,460	7.0	3.0	88	2.4
26	30	193	465	130	1,450	485	800	1,010	6.1	4.4	73	3.0
27	47	156	425	209	1,450	397	900	660	5.1	18	61	4.0
28	74	129	392	278	1,400	338	950	244	4.4	132	53	5.0
29	84	110	354	278	-----	401	950	179	4.2	410	48	7.0
30	72	96	314	252	-----	401	850	131	5.1	550	42	8.7
31	56	-----	270	249	-----	644	-----	104	-----	760	36	-----
TOTAL	632.0	4,623	5,708	6,379	16,250	22,474	13,092	30,178	806.1	1,971.24	13,497	283.0
MEAN	20.4	154	184	206	580	725	436	973	26.9	63.6	435	9.43
MAX	84	342	560	314	1,450	1,350	950	2,390	87	760	980	30
MIN	2.8	51	49	117	180	338	127	104	4.2	.56	36	2.4
CFSM	.02	.14	.17	.19	.53	.66	.40	.89	.02	.06	.40	.01
IN	.02	.16	.19	.22	.55	.76	.44	1.02	.03	.07	.46	.01
AC-FT	1,250	9,170	11,320	12,650	32,230	44,580	25,970	59,860	1,600	3,910	26,770	561
CAL YR 1970: TOTAL	319,245.07		MEAN 875	MAX 8,500	MIN .82	CFSM .80	IN. 10.82	AC-FT 633,200				
WTR YR 1971: TOTAL	115,893.34		MEAN 318	MAX 2,390	MIN .56	CFSM .29	IN. 3.93	AC-FT 229,900				

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 (revised).

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

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

EXTREMES.--Current year: Maximum gage height, 11.74 ft May 21; minimum, 5.00 ft Oct. 14.

Period of record: Maximum gage height, 12.91 ft Mar. 25, 1969; minimum, 5.00 ft Oct. 14, 1970.

REMARKS.--Reservoir is used for flood control and conservation. The reservoir is formed by an earthfill dam, containing a 1200 ft long reinforced concrete spillway equipped with 12 gates that are 6 ft long and 5 ft high. The spillway is 1.75 ft thick and flat crested. Built onto the spillway is a fish ladder that is 4 ft wide and begins to flow at a stage of 4.1 ft gage datum. Dam completed in 1935 and enlarged in 1951. Capacity, 120,000 acre-ft at elevation 141 ft mean sea level.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.56	5.40	5.72	7.40	8.72	11.34	11.30	11.33	11.18	10.89	11.14	11.07
2	6.36	5.35	5.73	7.45	8.73	11.45	11.34	11.30	11.15	10.92	11.24	11.04
3	6.18	5.25	5.69	7.45	8.74	11.42	11.33	11.29	11.12	10.92	11.40	11.03
4	6.00	5.17	5.73	7.60	8.75	11.38	11.34	11.20	11.10	10.92	11.44	11.03
5	5.82	5.19	5.70	7.63	8.90	11.35	11.37	11.18	11.10	10.91	11.44	11.02
6	5.65	5.20	5.72	7.67	8.96	11.40	11.33	11.19	11.07	10.90	11.40	11.01
7	5.54	5.19	5.65	7.70	9.05	11.37	11.26	11.30	11.05	10.89	11.35	10.78
8	5.41	5.18	5.60	7.70	9.06	11.31	11.21	11.32	11.04	10.85	11.32	10.28
9	5.38	5.24	5.57	7.73	9.07	11.26	11.22	11.30	11.02	10.85	11.32	9.82
10	5.27	5.27	5.55	7.78	9.05	11.32	11.21	11.28	11.00	10.81	11.30	9.39
11	5.21	5.25	5.55	7.86	9.07	11.28	11.17	11.35	10.99	10.79	11.29	8.97
12	5.20	5.28	5.54	7.89	9.23	11.29	11.14	11.44	10.98	10.77	11.32	8.62
13	5.13	5.33	5.51	7.93	9.25	11.29	11.15	11.51	10.96	10.75	11.38	8.40
14	5.09	5.45	5.48	8.00	9.27	11.23	11.17	11.55	10.94	10.72	11.40	8.35
15	5.27	5.48	5.52	8.08	9.38	11.29	11.13	11.56	10.97	10.69	11.39	8.01
16	5.26	5.48	5.54	8.07	9.48	11.29	11.12	11.57	10.99	10.67	11.38	7.75
17	5.22	5.48	5.55	8.12	9.58	11.31	11.11	11.57	10.95	10.66	11.35	7.49
18	5.20	5.54	5.56	8.19	9.63	11.38	11.12	11.60	10.95	10.61	11.32	7.24
19	5.26	5.52	5.60	8.21	9.75	11.46	11.12	11.68	10.92	10.56	11.26	7.08
20	5.27	5.51	5.83	8.17	9.96	11.49	11.12	11.70	10.92	10.58	11.22	7.37
21	5.27	5.51	6.21	8.18	10.03	11.49	11.11	11.72	10.93	10.54	11.18	6.65
22	5.26	5.67	6.52	8.21	10.15	11.53	11.10	11.71	10.94	10.60	11.15	6.47
23	5.25	5.79	6.71	8.35	10.33	11.52	11.11	11.70	10.92	10.60	11.16	6.29
24	5.36	5.72	6.84	8.38	10.49	11.46	11.12	11.69	10.91	10.68	11.21	6.11
25	5.36	5.66	6.97	8.39	10.65	11.43	11.13	11.69	10.90	10.81	11.28	5.94
26	5.36	5.65	6.99	8.46	10.92	11.36	11.17	11.61	10.87	10.86	11.24	5.78
27	5.53	5.73	7.06	8.49	11.14	11.28	11.21	11.55	10.87	10.87	11.20	5.64
28	5.62	5.77	7.14	8.50	11.27	11.29	11.29	11.46	10.87	10.89	11.18	5.52
29	5.60	5.77	7.23	8.53	-----	11.35	11.32	11.37	10.86	10.95	11.13	5.39
30	5.52	5.75	7.30	8.59	-----	11.30	11.27	11.27	10.85	11.02	11.08	5.26
31	5.46	-----	7.37	8.72	-----	11.23	-----	11.21	-----	11.08	11.06	-----
MAX	6.56	5.79	7.37	8.72	11.27	11.53	11.37	11.72	11.18	11.08	11.44	11.07
MIN	5.09	5.17	5.48	7.40	8.72	11.23	11.10	11.18	10.85	10.54	11.06	5.26

RED RIVER BASIN

39

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.--33 years, 555 cfs (402,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,200 cfs July 28 (gage height, 12.40 ft); minimum, 1.8 cfs July 14 (gage height, 1.69 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 water temperatures for the water year 1971 are published in Part 2 of this report. See following page for table of daily height.

REVISIONS.--WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	309	415	465	182	583	38	7.5	2.4	28	332	2.2
2	20	307	407	453	186	580	29	5.5	8.8	10	73	2.3
3	20	282	392	423	312	586	22	9.0	12	4.6	58	2.6
4	22	235	388	435	423	590	18	13	6.4	5.1	88	3.4
5	45	230	376	414	464	586	14	6.4	3.4	6.8	104	6.4
6	26	243	370	407	476	573	12	4.7	2.9	5.5	120	6.0
7	21	280	368	407	476	519	10	8.5	2.7	15	129	4.7
8	23	308	368	424	470	454	8.3	7.8	2.5	14	109	11
9	26	349	408	452	471	418	6.9	6.2	2.4	5.1	144	13
10	35	360	443	430	477	366	6.8	12	3.6	3.7	135	5.1
11	33	365	450	405	485	294	8.0	32	3.7	3.1	62	4.6
12	57	348	435	379	507	263	11	196	3.9	2.8	28	4.4
13	284	341	420	346	491	547	8.9	301	3.4	2.3	9.5	3.9
14	411	378	422	317	453	757	7.2	298	3.6	1.9	4.4	3.9
15	460	406	427	306	455	901	6.7	191	3.7	1.9	3.2	4.7
16	468	462	439	292	486	854	6.5	71	3.7	2.2	2.9	5.3
17	465	460	445	284	515	722	6.5	25	3.9	2.2	2.4	6.0
18	428	454	514	287	511	543	7.9	10	3.6	2.7	2.9	5.5
19	394	436	593	294	660	356	9.5	5.5	3.1	2.9	7.5	4.7
20	409	427	732	303	683	209	13	4.0	3.2	2.8	10	4.4
21	443	422	710	308	638	118	21	3.2	3.4	4.4	9.8	4.2
22	451	412	714	310	625	149	37	3.4	7.2	5.7	3.9	13
23	446	432	717	311	601	81	277	3.5	11	6.6	2.8	9.8
24	441	427	675	390	612	38	347	3.4	7.8	67	3.7	28
25	399	425	618	444	618	27	191	2.9	5.5	263	5.5	71
26	360	496	566	392	611	28	67	2.7	5.1	447	6.6	48
27	357	518	528	329	608	33	21	2.7	8.5	794	3.7	39
28	350	472	496	271	602	33	12	2.7	8.2	1,110	3.1	24
29	338	429	477	239	-----	232	11	2.4	8.2	1,140	2.6	11
30	331	405	469	203	-----	126	7.8	1.9	9.5	997	2.4	7.0
31	319	-----	471	191	-----	62	-----	2.0	-----	735	2.2	-----
TOTAL	7,901	11,388	15,253	10,911	14,098	11,628	1,242.0	1,244.9	157.3	5,692.3	1,471.1	359.1
MEAN	255	380	492	352	504	375	41.4	40.2	5.24	184	47.5	12.0
MAX	468	518	732	465	683	901	347	301	12	1,140	332	71
MIN	19	230	368	191	182	27	6.5	1.9	2.4	1.9	2.2	2.2
AC-FT	15,670	22,590	30,250	21,640	27,960	23,060	2,460	2,470	312	11,290	2,920	712

CAL YR 1970 TOTAL 164,286.3 MEAN 450 MAX 4,220 MIN 4.9 AC-FT 325,900
WTR YR 1971 TOTAL 81,345.7 MEAN 223 MAX 1,140 MIN 1.9 AC-FT 161,300

PEAK DISCHARGE (BASE, 3,000 CFS).--No peak above the base.

RED RIVER BASIN

07349500 Bodcau Bayou near Sarepta, La.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.32	6.67	7.55	7.93	5.38	8.78	2.98	2.02	1.74	2.69	6.78	1.72
2	2.33	6.64	7.48	7.84	5.42	8.75	2.73	1.93	2.05	2.12	3.72	1.73
3	2.34	6.42	7.36	7.61	6.68	8.80	2.49	2.07	2.18	1.88	3.41	1.75
4	2.40	5.96	7.33	7.70	7.61	8.83	2.35	2.21	1.96	1.91	4.04	1.81
5	3.09	5.91	7.24	7.54	7.92	8.80	2.23	1.97	1.81	1.99	4.31	1.97
6	2.54	6.04	7.18	7.48	8.02	8.71	2.16	1.89	1.78	1.93	4.56	1.95
7	2.36	6.40	7.17	7.48	8.01	8.32	2.08	2.06	1.76	2.26	4.68	1.89
8	2.43	6.66	7.17	7.62	7.97	7.85	2.01	2.03	1.75	2.27	4.40	2.15
9	2.53	7.01	7.49	7.83	7.98	7.57	1.95	1.96	1.74	1.91	4.90	2.22
10	2.81	7.10	7.76	7.66	8.02	7.15	1.95	2.19	1.82	1.83	4.76	1.91
11	2.76	7.14	7.81	7.47	8.08	6.53	1.99	2.81	1.83	1.79	3.55	1.88
12	3.24	7.00	7.70	7.26	8.24	6.24	2.09	5.34	1.84	1.77	2.67	1.87
13	6.40	6.95	7.58	6.98	8.12	8.51	2.03	6.59	1.81	1.73	2.09	1.84
14	7.52	7.25	7.60	6.74	7.84	9.94	1.96	6.57	1.82	1.70	1.87	1.84
15	7.90	7.47	7.64	6.64	7.85	10.84	1.94	5.45	1.83	1.70	1.80	1.89
16	7.96	-	7.73	6.51	8.09	10.55	1.93	3.71	1.83	1.72	1.78	1.92
17	7.93	-	7.78	6.44	8.30	9.72	1.94	2.60	1.84	1.72	1.74	1.95
18	7.65	-	8.28	6.47	8.27	8.49	1.99	2.12	1.82	1.76	1.77	1.93
19	7.38	7.71	8.85	6.53	9.29	7.06	2.06	1.93	1.79	1.78	2.02	1.89
20	7.50	7.64	9.79	6.61	9.46	5.67	2.19	1.85	1.80	1.77	2.13	1.87
21	7.76	7.60	9.64	6.66	9.16	4.52	2.46	1.80	1.81	1.86	2.11	1.86
22	7.82	7.52	9.66	6.67	9.07	4.96	2.83	1.81	2.01	1.94	1.84	2.23
23	7.78	7.44	9.69	6.68	8.90	3.89	6.32	1.82	2.14	1.98	1.77	2.11
24	7.74	7.64	9.41	7.34	8.98	2.98	6.99	1.81	2.03	3.56	1.83	2.69
25	7.42	7.62	9.02	7.77	9.03	2.66	5.44	1.78	1.93	6.11	1.92	3.73
26	7.10	8.15	8.66	7.36	8.98	2.69	3.62	1.76	1.91	7.78	1.97	3.26
27	7.08	8.32	8.38	6.84	8.96	2.85	2.47	1.76	2.06	10.12	1.83	3.03
28	7.02	7.98	8.15	6.32	8.91	2.82	2.17	1.76	2.05	11.94	1.79	2.58
29	6.92	7.66	8.02	6.00	-----	5.90	2.17	1.74	2.05	12.09	1.76	2.17
30	6.86	7.47	7.96	5.62	-----	4.62	2.03	1.72	2.09	11.37	1.74	2.00
31	6.75	-----	7.97	5.47	-----	3.55	-----	1.70	-----	9.79	1.72	-----
MAX	7.96	8.32	9.79	7.93	9.46	10.84	6.99	6.59	2.18	12.09	6.78	3.73
MIN	2.32	5.91	7.17	5.47	5.38	2.66	1.93	1.70	1.74	1.70	1.72	1.72

RED RIVER BASIN

41

07349800 Cypress Bayou near Benton, La.

LOCATION.--Lat 32°42'24", long 93°41'17", in NW¼SW¼ 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.--15 years (1955-68, 1969-71), 84.7 cfs (8.65 inches per year, 61,370 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 564 cfs Feb. 21 (gage height, 9.19 ft); no flow on many days.

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

REMARKS.--Records good. Since October 1961, flow regulated by 3 flood-control reservoirs above station (combined capacity of reservoirs, 1,784 acre-ft). Records of water temperatures for the water year 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	26	2.1	16	32	77	30	19	.57	.07	287	.70
2	0	30	1.8	21	50	62	25	20	.61	.29	108	.47
3	0	30	1.7	17	33	54	23	19	.65	.85	94	.28
4	0	32	3.3	17	19	48	20	17	.46	1.6	127	.18
5	0	31	2.8	29	12	43	18	15	.43	1.9	224	.14
6	0	15	2.2	47	27	37	15	13	.40	.83	216	.09
7	0	4.6	2.1	36	44	33	14	12	.30	.39	147	.05
8	0	2.0	2.1	26	35	29	13	13	.24	.20	83	.03
9	0	1.7	2.3	22	26	25	12	20	.17	.12	50	.01
10	0	1.2	4.7	19	23	29	11	30	.10	.04	32	.01
11	0	11	2.2	20	17	35	10	50	.04	.01	29	0
12	0	17	1.3	19	17	45	9.8	110	.01	0	28	0
13	0	8.9	.85	16	23	49	9.6	139	0	0	17	0
14	0	9.9	.58	14	59	95	9.4	130	0	0	26	0
15	0	80	34	12	67	163	9.4	79	0	0	40	0
16	0	77	41	12	136	143	9.4	41	.06	0	28	0
17	0	46	16	10	214	80	9.6	26	.06	0	19	0
18	0	26	5.0	8.5	185	54	10	20	.02	0	12	0
19	0	12	2.6	6.9	290	40	12	14	0	0	7.3	0
20	0	6.8	6.7	6.5	521	30	22	9.1	0	0	4.7	.43
21	0	5.4	107	6.2	556	25	23	6.0	.01	0	3.1	.74
22	0	4.6	216	5.6	509	20	32	4.4	.62	.02	2.2	1.0
23	0	3.5	204	5.6	352	19	50	3.1	.12	.04	1.5	4.7
24	0	4.0	98	6.8	212	18	94	2.4	.04	.57	.99	5.8
25	0	3.7	52	57	140	18	114	1.8	.01	4.4	.73	7.0
26	0	3.8	31	135	110	19	64	1.3	0	61	.49	5.9
27	.23	3.3	23	85	103	20	34	.94	0	172	5.2	2.6
28	.33	2.8	18	46	98	25	24	.69	0	312	5.4	12
29	.12	2.4	13	29	-----	30	20	.66	0	424	2.9	11
30	.16	2.3	12	23	-----	35	19	.70	0	532	1.7	3.6
31	13	-----	12	19	-----	35	-----	.61	-----	508	1.0	-----
TOTAL	13.84	503.9	921.33	793.1	3,910	1,435	766.2	818.70	4.92	2,020.33	1,604.21	56.73
MEAN	.45	16.8	29.7	25.6	140	46.3	25.5	26.4	.16	65.2	51.7	1.89
MAX	13	80	216	135	556	163	114	139	.65	532	287	12
MIN	0	1.2	.58	5.6	12	18	9.4	.61	0	0	.49	0
CFSM	.003	.13	.22	.19	1.05	.35	.19	.20	.001	.49	.39	.01
IN.	.003	.14	.26	.22	1.09	.40	.21	.23	.001	.57	.45	.02
AC-FT	27	999	1,830	1,570	7,760	2,850	1,520	1,620	9.8	4,010	3,180	113

CAL YR 1970 TOTAL 36,608.66 MEAN 100 MAX 1,180 MIN 0 CFSM .75 IN 10.24 AC-FT 72,610
WTR YR 1971 TOTAL 12,848.26 MEAN 35.2 MAX 556 MIN 0 CFSM .26 IN 3.59 AC-FT 25,480

PEAK DISCHARGE (BASE, 1,000 CFS).--No peak above the base.

RED RIVER BASIN

07349800 Cypress Bayou near Benton, La.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.50	2.78	1.97	2.38	2.88	4.15	-	-	1.83	1.71	7.07	1.85
2	1.50	2.89	1.95	2.48	3.50	3.80	-	-	1.84	1.78	4.74	1.82
3	1.50	2.91	1.94	2.41	2.97	3.60	-	-	1.84	1.83	4.48	1.78
4	1.50	2.95	2.03	2.40	2.44	3.46	-	-	1.82	1.93	5.08	1.76
5	1.50	2.94	2.01	2.82	2.31	3.31	-	-	1.81	1.95	6.51	1.75
6	1.50	2.39	1.98	3.42	2.77	3.14	-	-	1.81	1.86	6.42	1.73
7	1.50	2.38	1.97	3.11	3.33	2.98	-	-	1.79	1.80	5.44	1.71
8	1.50	1.96	1.96	2.74	3.06	2.88	-	-	1.77	1.77	4.25	1.70
9	1.50	1.94	1.98	2.53	2.77	2.73	-	-	1.76	1.74	3.49	1.68
10	1.50	1.90	2.09	2.44	2.55	2.86	-	-	1.73	1.70	2.96	1.66
11	1.50	2.20	1.97	2.48	2.41	3.06	-	-	1.70	1.67	2.87	1.65
12	1.50	2.42	1.91	2.45	2.40	3.34	-	-	1.67	1.64	2.81	1.63
13	1.50	2.23	1.87	2.38	2.59	3.46	-	5.32	1.65	1.62	2.40	1.61
14	1.50	2.26	1.83	2.34	3.72	4.47	-	5.17	1.62	1.60	2.73	1.60
15	1.50	4.18	2.92	2.30	3.91	5.70	-	4.16	1.62	1.60	3.22	1.59
16	1.50	4.13	3.36	2.30	5.23	5.37	-	3.25	1.71	1.60	2.81	1.57
17	1.50	3.39	2.42	2.26	6.39	4.19	-	2.73	1.71	1.59	2.45	1.57
18	1.50	2.71	2.11	2.22	6.01	3.60	-	2.47	1.69	1.59	2.29	1.57
19	1.50	2.31	2.00	2.17	6.91	-	-	2.35	1.66	1.59	2.18	1.64
20	1.50	2.17	2.15	2.16	8.94	-	2.56	2.23	1.66	1.58	2.09	1.74
21	1.50	2.12	4.59	2.15	9.14	-	2.61	2.14	1.68	1.57	2.03	1.85
22	1.50	2.09	6.41	2.13	8.85	-	2.93	2.08	1.83	1.65	1.97	1.88
23	1.50	2.04	6.25	2.13	7.70	-	3.50	2.03	1.74	1.70	1.93	2.08
24	1.50	2.06	4.55	2.17	6.36	-	4.47	1.98	1.70	1.83	1.88	2.13
25	1.50	2.05	3.54	3.57	5.33	-	4.88	1.94	1.67	2.04	1.85	2.18
26	1.50	2.05	2.94	5.26	4.79	-	3.82	1.91	1.65	3.62	1.82	2.14
27	1.65	2.03	2.60	4.29	4.67	-	3.03	1.88	1.63	5.79	2.07	1.99
28	1.79	2.01	2.42	3.38	4.56	-	2.65	1.85	1.62	7.37	2.12	2.23
29	1.74	1.99	2.33	2.86	-----	-	-	1.84	1.61	8.27	2.01	2.27
30	1.72	1.98	2.31	2.56	-----	-	-	1.85	1.61	9.00	1.94	2.04
31	2.32	-----	2.30	2.44	-----	-	-----	1.84	-----	8.85	1.89	-----
MAX	2.32	4.18	6.41	5.26	9.14	5.70	4.88	-	1.84	9.00	7.07	2.27
MIN	1.50	1.90	1.83	2.13	2.31	-	-	1.84	1.61	1.57	1.82	1.57

RED RIVER BASIN

43

07350000 Loggy Bayou near Ninock, La.

LOCATION.--Lat 32°14'10", long 93°25'35", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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, Mar. 29, 1949, to June 29, 1951, water-stage recorder at same site and datum. Sept. 15, 1955, to Sept. 30, 1964, auxiliary water-stage recorder 6 miles downstream at datum 100.21 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum gage height, 23.37 ft Nov. 2; minimum, 12.14 ft July 1.
Period of record: Maximum gage height, 47.83 ft May 8, 1958; minimum gage height, 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 Bodcau Bayou Reservoir (capacity, 967,900 acre-ft) since July 1949.

REVISIONS.--WSP 1211: Drainage area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.92	23.16	16.42	17.66	14.91	20.87	15.93	20.53	14.65	12.19	16.16	14.71
2	18.53	23.25	16.42	17.68	15.18	20.70	16.26	19.70	14.31	12.32	16.18	14.60
3	18.46	22.53	16.36	17.75	15.12	20.49	16.22	18.95	14.36	12.35	16.79	14.33
4	18.00	21.39	15.99	17.78	14.81	19.98	16.14	18.24	15.06	12.41	17.04	13.89
5	17.48	20.48	15.56	17.79	14.30	19.70	16.31	17.64	15.75	12.42	17.22	13.52
6	17.03	19.69	15.21	17.75	14.33	19.75	16.14	16.90	15.63	12.36	17.19	13.42
7	16.56	19.00	15.03	17.74	14.66	19.82	15.78	16.35	14.85	12.32	16.99	13.90
8	16.17	18.47	14.96	19.05	14.73	19.48	15.32	16.08	14.20	12.33	16.42	18.06
9	15.83	18.14	14.90	20.20	14.82	19.14	14.77	15.65	13.76	12.44	16.04	18.65
10	15.29	17.90	15.03	20.15	14.68	19.30	14.51	15.79	13.92	12.98	16.06	18.50
11	15.02	17.64	15.15	19.67	14.64	19.38	14.19	15.91	15.03	13.46	15.96	18.69
12	15.46	17.26	15.13	19.32	15.11	19.15	13.85	17.25	15.78	13.56	15.86	18.83
13	15.69	16.94	14.88	18.80	15.22	18.80	13.70	18.19	15.66	13.28	16.06	18.54
14	15.48	17.06	14.68	17.90	15.31	18.50	13.84	19.32	14.90	12.93	16.07	16.25
15	15.67	17.22	14.32	17.34	16.81	18.86	14.00	20.50	14.06	12.88	16.00	17.18
16	18.22	17.23	14.06	17.16	18.29	20.40	13.95	20.89	13.55	13.04	16.13	17.22
17	20.65	17.06	14.08	17.04	18.72	21.33	14.02	20.52	13.27	13.09	16.11	16.88
18	21.56	16.93	14.29	16.85	18.80	21.27	13.99	19.94	12.99	12.92	16.05	16.59
19	21.80	17.09	14.72	16.79	18.93	21.02	13.82	19.42	12.83	12.64	15.89	16.70
20	21.27	17.63	15.55	17.00	19.06	20.60	13.55	18.99	12.70	12.38	15.52	15.85
21	20.27	18.30	17.00	17.40	18.73	20.32	13.51	18.55	12.76	12.30	15.24	15.28
22	19.39	18.49	16.45	17.62	18.48	20.03	13.49	18.27	13.02	12.32	15.03	14.86
23	18.96	18.30	15.90	17.53	18.27	19.58	13.78	17.92	13.24	12.64	14.88	14.64
24	18.57	18.18	16.00	17.27	18.05	18.95	14.55	17.55	13.26	13.02	15.38	14.38
25	17.83	18.20	16.38	16.95	18.27	18.28	15.00	17.35	12.78	13.54	15.44	14.26
26	17.16	18.00	16.75	16.60	19.72	17.65	17.65	16.92	12.47	14.35	14.84	14.18
27	17.12	17.70	16.99	16.47	21.05	17.08	21.05	16.40	12.80	15.40	14.32	13.98
28	17.90	17.47	17.11	16.32	21.14	16.74	22.08	16.00	12.96	16.14	14.20	13.70
29	19.04	17.20	17.29	15.95	-----	16.90	22.05	15.37	12.58	16.86	14.32	13.48
30	21.14	16.75	17.46	15.53	-----	16.62	21.35	14.97	12.28	16.90	14.52	13.25
31	22.22	-----	17.59	15.04	-----	16.18	-----	15.05	-----	16.42	14.73	-----
MAX	22.22	23.25	17.59	20.20	21.14	21.33	22.08	20.89	15.78	16.90	17.22	18.83
MIN	15.02	16.75	14.06	15.04	14.30	16.18	13.49	14.97	12.28	12.19	14.20	13.25

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, nonrecording gage, Sept. 7, 1949, to Jan. 18, 1954, water-stage recorder, Jan. 19, 1954, to Apr. 7, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years (1939-71), 70.1 cfs (12.05 inches per year, 50,790 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,110 cfs May 12 (gage height, 16.38 ft); no flow part or all of each day Oct. 4-8 and July 11-22; minimum gage height, 8.15 ft July 21, 22.

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, 1970-71.

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

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Records of water temperatures for the water year 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	5.9	3.7	6.8	3.8	12	30	3.0	1.7	.27	3.6	.27
2	.02	4.9	4.0	6.5	3.8	8.5	15	2.5	1.3	.16	4.7	.25
3	.01	4.1	4.1	5.8	3.7	7.2	12	2.2	1.1	.46	10	.23
4	0	3.9	4.0	5.4	3.7	6.4	10	1.8	.86	.60	6.7	.21
5	0	3.7	4.1	5.2	3.6	5.9	9.0	1.3	.72	.33	257	.19
6	0	3.4	3.8	5.2	3.9	5.7	8.0	1.2	.69	.21	116	.15
7	0	3.0	4.1	5.1	4.0	5.5	7.0	9.4	.57	.12	32	.11
8	0	3.7	4.2	4.9	4.0	5.5	6.5	20	.46	.06	17	.09
9	.17	5.7	4.0	4.7	3.8	5.4	6.0	7.1	.36	.03	6.1	.06
10	1.7	5.2	3.7	4.7	3.6	5.9	5.5	23	.28	.01	4.5	.04
11	3.3	4.8	3.5	4.8	3.6	12	5.0	103	.23	0	3.8	.03
12	9.5	3.4	3.5	4.8	4.2	14	4.5	681	.19	0	10	.03
13	4.5	7.1	3.5	4.6	4.6	14	4.0	626	.19	0	6.2	.04
14	2.9	62	3.4	4.6	5.5	17	3.5	166	.17	0	21	.05
15	1.5	67	4.1	4.6	61	11	3.0	56	.21	0	20	.04
16	.55	26	4.7	4.5	206	7.9	2.5	18	.30	0	6.4	.04
17	.28	10	5.3	4.4	89	6.4	2.0	9.0	.25	0	4.3	.02
18	.16	6.9	6.6	4.3	38	6.0	3.0	6.1	.16	0	2.6	.02
19	.16	6.1	6.1	4.1	37	5.7	4.0	5.2	.09	0	1.7	.10
20	.13	5.6	190	4.0	180	5.6	6.0	4.7	.11	0	1.2	.14
21	.10	5.2	815	4.0	103	5.6	10	4.3	.27	0	.90	.11
22	.12	4.8	337	4.0	58	5.4	9.0	4.0	.30	.14	.64	.13
23	1.1	4.6	111	4.0	40	5.3	10	3.7	.27	.27	.50	.13
24	6.2	4.3	46	4.1	23	5.3	12	3.3	.21	3.1	.38	.08
25	4.3	4.2	21	4.2	15	5.3	10	3.2	.13	24	.28	.12
26	2.7	4.1	12	4.1	15	5.2	8.0	2.9	.07	49	.26	.17
27	36	4.0	8.5	4.0	21	5.2	6.0	2.5	.05	28	2.7	.12
28	165	4.0	6.9	3.9	21	10	5.0	2.4	.15	5.7	1.6	.11
29	85	3.9	6.3	3.9	-----	30	4.0	2.2	.43	11	.73	.10
30	23	3.8	6.3	3.9	-----	80	3.5	2.0	.41	16	.44	.07
31	8.4	-----	6.6	3.8	-----	70	-----	2.0	-----	8.0	.29	-----
TOTAL	356.83	285.3	1,647.0	142.9	962.8	394.9	224.0	1,779.0	12.23	147.46	543.52	3.25
MEAN	11.5	9.51	53.1	4.61	34.4	12.7	7.47	57.4	.41	4.76	17.5	.11
MAX	165	67	815	6.8	206	80	30	681	1.7	49	257	.27
MIN	0	3.0	3.4	3.8	3.6	5.2	2.0	1.2	.05	0	.26	.02
CFSM	.15	.12	.67	.06	.44	.16	.09	.73	.005	.06	.22	.001
IN.	.17	.13	.78	.07	.45	.19	.11	.84	.005	.07	.26	.001
AC-FT	708	566	3,270	283	1,910	783	444	3,530	24	292	1,080	6.5

CAL YR 1970 TOTAL 14,837.53 MEAN 40.7 MAX 1,380 MIN 0 CFSM .52 IN 6.99 AC-FT 29,430
WTR YR 1971 TOTAL 6,499.19 MEAN 17.8 MAX 815 MIN 0 CFSM .23 IN 3.06 AC-FT 12,890

PEAK DISCHARGE (BASE, 1,400 CFS).--No peak above the base.

NOTE.--No gage-height record Mar. 28 to May 4.

RED RIVER BASIN

45

07352000 Saline Bayou near Lucky, La.

LOCATION.--Lat 32°15'00", long 92°58'35", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ 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.--31 years, 157 cfs (13.84 inches per year, 113,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 986 cfs Aug. 3 (gage height, 6.82 ft); minimum daily discharge, 5.4 cfs July 16; minimum gage height, 2.40 ft July 17.
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, 2.4 cfs Aug. 14, 1954; minimum gage height, 1.66 ft Aug. 7, 8, 1964.

REMARKS.--Records poor. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1177: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	48	54	104	35	290	150	25	20	9.2	33	76
2	30	46	54	91	31	180	113	24	20	13	48	198
3	30	47	54	89	28	131	88	22	17	29	780	243
4	30	46	54	86	30	106	74	21	16	31	900	154
5	31	47	54	84	36	87	63	21	15	22	652	63
6	32	48	54	80	35	76	56	21	14	17	604	33
7	33	48	54	80	31	69	52	137	13	14	410	24
8	36	50	54	78	31	62	48	200	12	11	213	18
9	41	55	54	78	30	60	46	266	11	8.6	125	16
10	42	58	54	80	28	109	45	410	9.4	7.4	79	14
11	42	56	55	82	27	102	44	688	9.2	6.6	60	12
12	108	54	56	80	46	104	43	670	8.6	6.0	94	11
13	127	58	56	80	82	113	41	730	8.2	5.9	92	11
14	76	116	54	78	66	98	40	760	7.4	5.7	74	11
15	31	129	54	76	99	82	38	724	6.8	5.6	109	9.7
16	28	101	54	74	144	67	38	586	7.5	5.4	74	10
17	29	84	56	72	133	56	37	270	7.4	6.2	44	10
18	30	68	54	69	126	57	38	129	6.8	8.2	33	10
19	40	58	54	68	122	74	38	82	6.6	8.7	27	35
20	76	56	53	66	179	91	36	74	6.4	9.7	23	314
21	58	54	54	66	236	106	35	63	19	10	19	330
22	34	54	85	66	294	95	34	48	28	12	17	154
23	36	53	138	80	213	74	36	40	18	23	18	89
24	45	52	144	80	161	66	35	33	15	23	24	57
25	46	52	141	76	129	63	36	31	12	36	20	41
26	37	53	132	72	164	63	37	33	7.8	52	17	32
27	60	53	104	66	330	60	34	30	7.2	64	14	26
28	132	52	88	60	346	62	30	32	14	49	13	24
29	119	53	100	54	-----	110	26	28	17	74	11	22
30	84	54	105	47	-----	120	26	24	14	62	10	21
31	58	-----	120	42	-----	155	-----	22	-----	43	11	-----
TOTAL	1,630	1,803	2,297	2,304	3,212	2,988	1,457	6,244	374.3	678.2	4,648	2,068.7
MEAN	52.6	60.1	74.1	74.3	115	96.4	48.6	201	12.5	21.9	150	.69
MAX	132	129	144	104	346	290	150	760	28	74	900	330
MIN	28	46	53	42	27	56	26	21	6.4	5.4	10	9.7
CFSM	.34	.39	.48	.48	.75	.63	.32	1.31	.08	.14	.97	.45
IN.	.39	.44	.55	.56	.78	.72	.35	1.51	.09	.16	1.12	.50
AC-FT	3,230	3,580	4,560	4,570	6,370	5,930	2,890	12,380	742	1,350	9,220	4,100
(††)	-	-	-	-	-	-	-	7.08	.78	4.69	6.91	3.68
CAL YR 1970: TOTAL	33,508.8		MEAN 91.8	MAX 942	MIN 5.2	CFSM .60	IN. 8.09	AC-FT 66,460				
WTR YR 1971: TOTAL	29,704.2		MEAN 81.4	MAX 900	MIN 5.4	CFSM .53	IN. 7.17	AC-FT 58,920				

PEAK DISCHARGE (BASE, 1,000 CFS).--No peak above base.

†† Precipitation, in inches, during month at rain gage at station.

RED RIVER BASIN

07352800 Grand Bayou near Coushatta, La.

LOCATION.--Lat 32°02'55", long 93°18'10", in SW $\frac{1}{4}$ 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 Carroll 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.--15 years, 76.8 cfs (11.11 inches per year, 55,640 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,010 cfs May 13 (gage height, 8.35 ft); no flow for part or all of each day July 11-24.
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 water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	28	1.7	86	9.0	106	54	.98	.98	.10	20	13
2	1.7	16	1.6	55	7.9	62	34	.68	.68	.11	9.9	7.8
3	.85	10	1.4	37	6.5	45	27	.36	.43	.09	10	14
4	.34	6.6	1.5	27	5.5	37	20	.28	.36	.08	24	11
5	.23	5.3	1.6	22	4.5	31	15	.26	.32	.06	60	6.3
6	.20	5.3	3.0	18	6.3	27	11	.24	.26	.04	29	3.9
7	.19	5.5	3.0	15	11	23	7.9	.26	.22	.03	12	2.1
8	.65	4.7	3.9	12	12	20	5.9	.22	.22	.03	5.7	1.5
9	1.0	4.7	3.6	11	11	17	4.5	.39	.19	.04	5.3	.86
10	.42	3.5	3.0	12	9.3	20	3.7	22	.21	.03	44	.46
11	.84	2.7	2.5	17	8.0	49	3.2	116	.18	.02	19	.39
12	3.9	4.3	2.8	22	8.5	63	2.6	411	.16	0	8.8	.29
13	18	5.8	2.3	22	24	44	2.1	879	.14	0	4.1	.19
14	27	16	2.0	19	39	38	4.8	897	.13	0	5.5	.15
15	18	66	2.3	17	69	36	3.2	625	.14	0	53	.13
16	10	76	2.9	15	235	28	1.6	331	.23	0	55	.13
17	5.6	57	3.0	13	299	22	.82	84	.22	0	14	.14
18	3.1	35	3.3	11	290	16	.98	29	.20	0	5.6	.12
19	2.8	22	4.1	8.7	178	15	.75	18	.15	0	2.9	.25
20	2.8	16	5.2	8.6	255	18	.54	25	.17	0	1.6	35
21	22	12	44	7.3	315	22	.48	19	.20	0	.66	160
22	29	9.9	60	6.1	288	20	.54	13	.18	0	.33	180
23	16	8.0	38	6.9	225	17	.43	9.1	.15	0	.35	87
24	11	5.9	27	37	176	14	.34	7.5	.13	.05	2.1	26
25	9.2	4.3	21	30	90	13	.30	6.3	.12	.17	87	16
26	15	4.1	18	36	155	12	.30	4.8	.10	.15	160	10
27	20	3.6	15	29	183	10	.30	4.1	.10	.10	150	6.8
28	24	2.5	11	19	172	9.8	.43	3.2	.08	.18	100	5.2
29	74	2.0	20	14	-----	86	1.1	2.8	.13	6.9	25	4.3
30	91	1.7	39	12	-----	186	.90	2.1	.12	21	11	3.3
31	58	-----	79	10	-----	124	-----	1.5	-----	52	6.1	-----
TOTAL	469.62	444.4	426.7	655.6	3,092.5	1,230.8	208.71	3,514.07	6.90	81.18	931.94	596.31
MEAN	15.1	14.8	13.8	21.1	110	39.7	6.96	113	.23	2.62	30.1	19.9
MAX	91	76	79	86	315	186	54	897	.98	52	160	180
MIN	.19	1.7	1.4	6.1	4.5	9.8	.30	.22	.08	0	.33	.12
CFSM	.16	.16	.15	.22	1.17	.42	.07	1.20	.002	.03	.32	.21
IN.	.19	.18	.17	.26	1.23	.49	.08	1.39	.002	.03	.37	.24
AC-FT	931	881	846	1,300	6,130	2,440	414	6,970	14	161	1,850	1,180
CAL YR 1970	TOTAL 16,203.42	MEAN 44.4	MAX 1,520	MIN 0	CFSM .47	IN 6.42	AC-FT 32,140					
WTR YR 1971	TOTAL 11,658.73	MEAN 31.9	MAX 897	MIN 0	CFSM .34	IN 4.62	AC-FT 23,130					

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
5-13	2130	8.35	1,010				

RED RIVER BASIN

47

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 current year.

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. Auxiliary water-stage recorder 6.8 miles upstream. Datum of auxiliary 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 21.52 ft lower.

AVERAGE DISCHARGE.--22 years, 1,183 cfs (857,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,020 cfs May 20; maximum gage height, 15.76 ft May 18; minimum discharge (unaffected by backwater), 9.0 cfs July 21.

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), 1.4 cfs Sept. 1, Oct. 30 to Nov. 6, Nov. 9-18, 1964.

Flood in April 1945 reached a stage of 43.6 ft, from information by local resident.

REMARKS.--Records good except those for period of no gage-height record, and discharge below about 300 cfs, which are poor. Some regulation by Saline Lake-Black Lake (combined usable capacity, 161,000 acre-ft). Records of water temperatures for the water year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1731: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	560	242	700	447	2,010	699	155	838	40	536	490
2	20	550	230	900	409	2,050	754	144	717	38	646	451
3	19	530	225	1,000	387	2,040	727	124	622	35	730	428
4	19	510	213	1,050	402	1,880	719	100	535	35	739	408
5	20	500	203	1,050	407	1,750	739	91	466	30	755	395
6	21	480	200	1,000	375	1,750	728	95	400	30	759	376
7	25	450	180	980	377	1,610	666	278	343	26	765	354
8	30	420	165	960	361	1,460	625	302	296	26	763	336
9	40	410	165	980	311	1,340	603	304	253	28	774	318
10	50	400	165	1,000	273	1,310	570	403	212	26	775	304
11	65	370	191	980	253	1,190	523	725	181	24	780	321
12	90	350	187	800	356	1,120	483	1,090	159	22	805	304
13	150	360	170	740	308	1,090	458	1,450	136	19	860	281
14	200	400	161	725	274	1,020	424	1,810	118	16	847	255
15	200	450	158	706	348	1,020	389	2,210	105	14	822	240
16	200	475	187	654	451	946	352	2,600	111	13	786	246
17	190	450	160	633	549	874	328	2,820	111	11	748	223
18	190	410	153	615	624	850	326	2,910	99	10	719	201
19	180	375	169	578	800	904	304	2,910	78	10	689	215
20	170	350	200	508	1,010	798	310	2,950	68	9.5	664	225
21	160	340	217	489	1,190	735	284	2,890	64	9.0	639	213
22	160	330	225	515	1,400	733	257	2,760	59	9.5	612	224
23	150	320	251	524	1,480	705	265	2,590	59	10	589	246
24	170	310	249	528	1,550	665	219	2,480	47	11	588	273
25	180	275	274	533	1,620	682	195	2,280	44	32	586	299
26	200	276	300	518	1,840	658	187	2,030	38	64	563	301
27	250	283	340	499	1,940	619	185	1,790	35	111	566	295
28	300	279	380	490	1,980	614	176	1,550	30	219	568	296
29	350	266	430	486	-----	685	162	1,330	35	337	574	282
30	450	249	500	488	-----	641	175	1,130	40	419	563	260
31	500	-----	600	476	-----	623	-----	969	-----	477	526	-----
TOTAL	4,770	11,728	7,490	22,105	21,722	34,372	12,832	45,270	6,299	2,161.0	21,336	9,060
MEAN	154	391	242	713	776	1,109	428	1,460	210	69.7	688	302
MAX	500	560	600	1,050	1,980	2,050	754	2,950	838	477	860	490
MIN	19	249	153	476	253	614	162	91	30	9.0	526	201
AC-FT	9,460	23,260	14,860	43,850	43,090	68,180	25,450	89,790	12,490	4,290	42,320	17,970

CAL YR 1970 TOTAL 250,356.0 MEAN 686 MAX 3,130 MIN 12 AC-FT 496,600
WTR YR 1971 TOTAL 199,145.0 MEAN 546 MAX 2,950 MIN 9.0 AC-FT 395,000

NOTE.--No gage-height record Oct. 1 to Nov. 23.

RED RIVER BASIN

07354000 Little Sandy Creek at Kisatchie, La.

LOCATION.--Lat 31°24'30", long 93°10'15", in SE $\frac{1}{4}$ 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.--22 years, 27.4 cfs (17.39 inches per year, 19,880 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,770 cfs Aug. 2 (gage height, 7.68 ft); minimum daily, 0.52 cfs June 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 good except those below about 20 cfs, which are fair. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	.94	4.5	4.5	22	5.0	69	9.4	5.4	1.4	55	12	2.2		
2	.84	4.3	4.5	17	4.1	106	11	5.2	1.2	34	383	2.4		
3	.84	4.3	4.5	40	5.0	48	9.1	5.0	1.2	41	197	2.2		
4	.84	3.9	4.5	72	16	21	8.6	4.7	1.3	16	107	2.1		
5	.84	3.8	4.5	22	21	16	8.2	4.7	1.0	6.4	87	1.9		
6	.84	3.8	4.3	15	9.8	14	8.2	5.6	1.0	5.8	47	1.8		
7	1.7	3.8	4.1	12	7.2	11	7.9	8.2	.94	5.0	20	1.7		
8	2.5	3.8	4.1	10	6.0	10	7.6	5.8	.84	4.7	7.4	3.8		
9	5.0	6.7	4.1	26	5.4	13	7.6	5.4	.76	4.1	5.4	2.5		
10	3.2	4.7	4.1	24	5.4	48	7.2	5.4	.76	3.9	5.2	2.2		
11	244	4.1	6.4	17	5.8	13	7.0	12	.84	3.8	4.1	2.7		
12	283	3.8	6.2	12	96	10	6.7	30	.84	3.4	3.6	2.7		
13	54	64	4.7	11	24	10	6.4	8.6	.84	3.2	7.2	2.4		
14	14	34	4.5	9.4	15	9.4	6.4	5.0	.67	2.7	4.1	1.8		
15	10	12	11	8.6	11	8.2	6.4	4.1	.59	2.4	3.4	2.4		
16	8.6	8.4	8.6	6.7	9.8	7.0	6.4	3.4	.84	2.1	2.5	6.7		
17	7.4	7.4	6.4	6.7	7.2	6.7	6.7	2.7	.67	1.9	2.4	3.4		
18	7.0	6.7	5.6	6.7	6.4	122	7.0	2.4	.59	1.9	1.9	3.2		
19	7.4	8.6	5.2	6.0	12	138	6.7	2.4	.52	1.9	1.9	6.0		
20	7.6	5.8	147	5.8	17	43	6.7	21	.59	2.7	8.3	10		
21	6.4	5.2	20	6.0	20	29	6.7	6.2	1.2	7.0	8.6	6.2		
22	6.0	5.2	12	6.0	20	24	6.2	3.6	.94	17	3.2	4.7		
23	7.2	4.7	15	15	8.8	13	6.0	2.4	1.1	7.9	2.7	4.5		
24	19	4.5	11	11	6.4	11	5.6	3.2	.84	27	17	2.8		
25	8.2	4.5	8.8	7.9	56	15	5.6	7.9	.76	40	12	3.9		
26	6.2	4.5	7.9	6.4	399	16	5.8	3.6	.59	17	6.0	3.6		
27	6.7	4.5	7.9	5.4	63	12	5.8	3.9	.59	53	3.2	6.7		
28	16	4.5	7.9	5.8	30	11	5.8	2.8	4.8	129	2.2	4.5		
29	8.2	4.5	7.6	5.2	-----	13	5.6	2.2	18	145	2.1	2.8		
30	5.8	4.5	131	5.4	-----	10	5.6	2.1	9.2	79	1.9	2.4		
31	4.7	-----	45	5.2	-----	9.4	-----	1.3	-----	30	1.9	-----		
TOTAL	754.94	245.0	522.9	429.2	892.3	886.7	209.9	186.2	55.41	753.8	971.2	106.2		
MEAN	24.4	8.17	16.9	13.8	31.9	28.6	7.00	6.01	1.85	24.3	31.3	3.54		
MAX	283	64	147	72	399	138	11	30	18	145	383	10		
MIN	.84	3.8	4.1	5.2	4.1	6.7	5.6	1.3	.52	1.9	1.9	1.7		
CFSM	1.14	.38	.79	.64	1.49	1.34	.33	.28	.09	1.14	1.46	.16		
IN.	1.31	.43	.91	.75	1.55	1.54	.36	.32	.10	1.31	1.69	.18		
AC-FT	1,500	486	1,040	851	1,770	1,760	416	369	110	1,500	1,930	211		
CAL YR 1970:	TOTAL	5,600.69	MEAN	15.3	MAX	487	MIN	.46	CFSM	.72	IN.	9.73	AC-FT	11,110
WTR YR 1971:	TOTAL	6,013.75	MEAN	16.5	MAX	399	MIN	.52	CFSM	.77	IN.	10.45	AC-FT	11,930

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-11	2245	6.90	1,500	8-2	2015	7.68	1,770
2-26	1230	5.58	1,030				

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 1970. 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.--42 years, 31,020 cfs (22,500,000 acre-ft per year).

EXTREMES.--1969-70: Maximum daily discharge, 114,000 cfs May 3; minimum, 4,400 cfs Aug. 4, 5 (gage height, -0.13 ft).

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.

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 1241: 1929-36.

NOTE.--Records for 1971 water year are not available in time for inclusion in this report. They will be published in a subsequent 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 33.05 ft above mean sea level (levels by Louisiana Department of Public Works).

EXTREMES.--Current year: Maximum gage height 8.11 ft Mar. 22; minimum 2.53 ft Sept. 15.

Period of record: Maximum gage height 14.20 ft Mar. 2, 1969; minimum 2.53 ft Sept. 15, 1971.

REMARKS.--Reservoir is formed by an earthfill dam with crest elevation at 45.5 ft above mean sea level. The dam contains a reinforced concrete spillway 57 ft long with invert at 37 ft above mean sea level. Capacity at spillway elevation is 15,000 acre-ft, estimated. The lake is a natural oxbow lake formed when a river meander was cut off. The dam was completed in 1959. Outflow between 31 and 37 ft elevation is controlled by a 10 ft wide timber gate.

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	4.33	5.87	5.31	5.54	5.50	7.40	7.04	5.29	6.28	4.86	4.60	3.59
2	4.31	5.86	5.28	5.58	5.43	7.43	6.94	5.23	6.20	5.17	4.61	3.49
3	4.29	5.76	5.24	5.56	5.39	7.81	6.81	5.20	6.10	5.24	4.63	3.49
4	4.27	5.69	5.18	5.70	5.32	7.84	6.69	5.11	6.03	5.25	4.64	3.39
5	4.26	5.62	5.14	5.72	5.50	7.81	6.62	5.04	5.94	5.20	4.63	3.32
6	4.24	5.56	5.15	5.75	5.53	7.77	6.48	5.03	5.86	5.19	4.61	3.25
7	4.25	5.50	5.09	5.75	5.59	7.69	6.36	5.26	5.77	5.12	4.61	3.16
8	4.23	5.44	5.05	5.77	5.67	7.57	6.26	5.41	5.70	5.10	4.60	3.10
9	4.30	5.46	5.02	5.72	5.51	7.47	6.17	5.53	5.63	5.07	4.67	2.99
10	4.24	5.46	5.00	5.70	5.43	7.44	6.08	5.54	5.56	5.03	4.67	2.93
11	4.21	5.42	4.98	5.72	5.39	7.36	5.99	5.60	5.50	5.00	4.67	2.84
12	5.16	5.41	5.00	5.71	5.73	7.31	5.89	6.16	5.49	4.96	4.65	2.76
13	5.93	5.33	4.96	5.69	5.80	7.24	5.82	6.48	5.44	4.93	4.66	2.69
14	6.39	5.77	4.93	5.66	5.69	7.20	5.76	6.69	5.37	4.89	4.64	2.61
15	6.58	5.95	4.87	5.89	5.64	7.21	5.70	6.61	5.32	4.85	4.62	2.58
16	6.59	6.02	5.20	6.18	5.64	7.15	5.64	6.56	5.26	4.82	4.61	2.87
17	6.55	6.03	5.28	6.23	5.66	7.12	5.58	6.44	5.20	4.80	4.59	3.17
18	6.49	6.02	5.32	6.24	5.74	7.12	5.54	6.33	5.15	4.77	4.55	3.26
19	6.41	5.98	5.35	6.23	5.83	7.75	5.48	6.26	5.12	4.68	4.51	3.54
20	6.34	5.96	5.34	6.11	5.79	7.93	5.43	6.37	5.07	4.66	4.45	4.23
21	6.23	5.88	5.33	6.03	5.82	7.98	5.54	6.60	5.03	4.67	4.38	4.55
22	6.14	5.79	5.30	6.00	6.36	7.99	5.67	6.62	5.05	4.65	4.29	4.66
23	6.05	5.78	5.28	5.97	6.34	7.94	5.71	6.56	5.05	4.65	4.19	4.73
24	6.06	5.70	5.27	5.94	6.31	7.87	5.69	6.45	5.03	4.64	4.20	4.76
25	5.98	5.55	5.21	5.88	6.24	7.76	5.61	6.75	4.98	4.63	4.21	4.78
26	5.91	5.50	5.16	5.83	6.42	7.64	5.55	6.76	4.95	4.62	4.12	4.76
27	5.83	5.48	5.13	5.78	7.04	7.53	5.48	6.73	4.90	4.60	4.02	4.73
28	5.95	5.45	5.10	5.71	7.43	7.39	5.46	6.67	4.90	4.59	3.92	4.72
29	5.96	5.40	5.15	5.65	-----	7.39	5.41	6.60	4.86	4.63	3.84	4.66
30	5.95	5.35	5.15	5.60	-----	7.31	5.37	6.49	4.83	4.63	3.72	4.57
31	5.92	-----	5.46	5.59	-----	7.18	-----	6.38	-----	4.63	3.65	-----
MAX	6.59	6.03	5.46	6.24	7.43	7.99	7.04	6.76	6.28	5.25	4.67	4.78
MIN	4.21	5.33	4.87	5.54	5.32	7.12	5.37	5.03	4.83	4.59	3.65	2.58

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 discharge, 17,400 cfs Aug. 12; maximum gage height, 18.66 ft Aug. 12; minimum daily discharge, 190 cfs Sept. 13; minimum gage height, 6.58 ft Sept. 14.

Period of record: Maximum gage height, 43.04 ft May 14, 15, 1958 (discharge not determined); minimum daily discharge, 190 cfs Sept. 13, 1971; minimum gage height, 6.58 ft Sept. 14, 1971.

1912-71: 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 poor. 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 for Lock and Dam No. 6 for the water year 1971 are published in Part 2 of the Arkansas report (see sta 07364080). Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,080	7,580	2,630	7,410	7,410	12,200	7,450	2,290	1,770	1,130	16,800	1,800
2	1,160	7,860	2,060	7,410	6,680	11,400	6,590	3,160	2,030	1,180	16,300	1,900
3	1,030	7,880	2,100	7,430	5,180	10,300	5,860	3,560	1,990	1,210	15,000	2,000
4	1,040	7,830	2,420	7,500	4,660	9,530	4,850	3,250	1,870	1,370	12,600	1,700
5	1,030	7,930	3,450	7,790	5,020	9,100	4,320	2,310	1,940	1,530	12,600	1,500
6	942	8,530	3,980	9,010	5,770	9,310	4,300	1,820	2,230	1,590	14,200	1,600
7	885	8,470	3,990	10,100	6,670	10,300	4,070	1,840	2,430	1,550	15,300	1,500
8	1,000	6,260	3,960	10,900	6,960	10,600	3,270	1,950	2,390	1,490	16,000	850
9	1,110	4,470	3,720	11,800	6,660	9,800	2,740	1,700	2,170	1,410	16,400	800
10	1,180	3,250	3,480	12,100	4,990	8,340	2,760	1,720	1,800	1,420	17,000	750
11	1,300	4,500	3,390	12,900	4,660	7,710	2,710	2,650	1,580	1,710	17,300	750
12	1,640	4,710	3,380	13,100	5,530	8,270	2,250	5,230	1,420	1,610	17,300	750
13	1,580	4,560	3,460	11,700	6,600	9,690	1,810	9,620	1,430	1,140	17,100	190
14	1,550	4,540	3,520	10,700	6,930	11,300	1,720	12,900	1,310	1,030	16,200	650
15	1,540	4,570	3,520	10,200	8,430	14,600	1,720	14,700	1,350	944	15,400	750
16	1,520	4,820	3,490	9,930	9,400	15,700	1,720	15,400	1,260	899	14,800	800
17	1,500	5,710	3,290	10,200	9,420	16,100	1,570	15,300	1,210	868	11,500	2,000
18	1,520	6,300	3,330	10,300	9,020	16,300	1,670	15,100	1,000	969	9,190	4,000
19	1,640	6,320	4,230	9,360	8,710	16,200	1,780	14,100	908	1,200	7,490	2,000
20	1,720	6,250	6,090	6,780	8,900	15,500	1,900	11,100	926	1,350	4,490	1,500
21	1,650	6,720	7,240	5,900	9,320	13,700	1,940	7,530	944	1,260	4,020	920
22	1,540	5,650	6,860	6,190	10,600	11,800	2,580	6,180	956	1,200	2,830	900
23	1,450	4,750	6,650	7,110	11,300	11,600	4,560	4,400	1,010	1,140	1,820	2,000
24	1,500	4,370	6,820	7,520	12,100	10,800	5,660	3,040	974	1,170	2,400	1,200
25	1,600	3,580	7,190	7,820	14,700	10,100	5,480	2,090	1,020	4,700	2,520	1,170
26	1,730	2,950	8,260	8,100	14,500	9,030	4,050	2,060	995	4,980	2,000	1,310
27	2,280	4,630	8,880	8,140	14,200	7,930	2,560	1,760	1,010	14,000	1,410	1,410
28	2,710	5,960	8,850	8,180	13,700	7,910	1,710	1,910	1,050	15,900	1,470	1,320
29	2,850	5,720	8,370	8,140	-----	8,970	1,620	1,830	1,100	16,200	1,630	1,290
30	5,200	4,320	7,380	7,930	-----	9,240	1,840	1,900	1,110	16,700	1,550	1,260
31	7,130	-----	6,660	7,680	-----	8,100	-----	1,760	-----	16,800	2,700	-----
MAX	7,130	8,530	8,880	13,100	14,700	16,300	7,450	15,400	2,430	16,800	17,300	4,000
MIN	885	2,950	2,060	5,900	4,660	7,710	1,570	1,700	908	868	1,410	190

RED RIVER BASIN

07364200 Bayou Bartholomew near Jones, La.

LOCATION.--Lat 32°59'25", long 91°39'20", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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.--14 years, 1,141 cfs (826,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,810 cfs May 24; maximum gage height, 13.49 ft May 24; minimum discharge, 92 cfs July 6 (gage height, 1.76 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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	140	135	402	627	1,030	1,250	557	1,320	112	235	1,030
2	108	139	131	385	661	1,040	1,250	562	1,200	101	255	980
3	103	135	128	372	709	1,050	1,220	550	1,100	96	288	920
4	100	129	128	383	764	1,040	1,180	529	999	94	320	851
5	98	123	134	400	828	1,030	1,120	502	895	93	353	772
6	98	118	137	400	888	1,000	1,070	479	804	94	390	692
7	99	113	136	420	948	990	1,000	480	710	98	437	611
8	101	111	132	450	997	980	922	484	628	98	485	531
9	110	155	128	470	1,000	970	854	489	549	101	533	461
10	112	218	125	460	1,000	960	798	501	484	110	597	399
11	117	215	122	455	1,010	940	737	528	415	118	675	346
12	163	198	119	450	990	920	673	678	360	124	740	302
13	196	186	115	430	950	900	617	808	307	126	817	268
14	219	248	112	422	910	880	561	890	262	126	882	238
15	230	280	111	408	900	870	507	976	220	126	942	216
16	234	283	113	413	800	887	457	1,100	187	128	980	202
17	227	285	112	441	710	929	423	1,220	164	130	1,030	190
18	211	279	111	471	650	967	385	1,360	149	129	1,070	179
19	196	264	110	484	600	1,050	354	1,510	141	127	1,090	171
20	186	249	155	483	570	1,100	338	1,590	135	124	1,120	165
21	171	230	446	466	550	1,140	346	1,720	144	118	1,130	157
22	157	212	509	427	560	1,160	355	1,790	150	110	1,140	150
23	151	194	608	438	600	1,180	358	1,790	143	105	1,140	146
24	149	177	659	442	700	1,200	346	1,810	130	102	1,140	144
25	148	164	667	431	800	1,210	337	1,790	119	116	1,130	146
26	146	156	654	448	900	1,210	336	1,760	110	194	1,120	147
27	146	151	607	471	1,000	1,220	356	1,720	108	248	1,120	146
28	158	149	543	510	1,020	1,210	401	1,660	142	204	1,110	142
29	153	146	482	548	-----	1,230	466	1,580	135	173	1,100	137
30	146	141	445	578	-----	1,240	529	1,500	116	168	1,090	133
31	142	-----	429	601	-----	1,250	-----	1,420	-----	210	1,070	-----
TOTAL	4,688	5,588	8,543	13,959	22,642	32,783	19,546	34,333	12,326	4,003	25,529	10,972
MEAN	151	186	276	450	809	1,058	652	1,108	411	129	824	366
MAX	234	285	667	601	1,020	1,250	1,250	1,810	1,320	248	1,140	1,030
MIN	98	111	110	372	550	870	336	479	108	93	235	133
AC-FT	9,300	11,080	16,950	27,690	44,910	65,030	38,770	68,100	24,450	7,940	50,640	21,760
CAL YR 1970: TOTAL	4,873	377		MEAN	1,335	MAX	4,930	MIN	98	AC-FT	966,700	
WTR YR 1971: TOTAL	194,912			MEAN	534	MAX	1,810	MIN	93	AC-FT	386,600	

RED RIVER BASIN

53

07364300 Chemin-a-Haut Bayou near Beekman, La.

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.

DRAINAGE AREA.--271 sq mi.

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 (station 07364500) used as auxiliary gage for this station.

AVERAGE DISCHARGE.--16 years, 236 cfs (171,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,260 cfs May 14 (gage height, 18.72 ft); minimum, 2.4 cfs Oct. 5 (gage height, 10.99 ft).
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.

REMARKS.--Records fair. Some diversions above station for irrigation. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	62	22	217	55	558	223	26	12	14	81	19
2	2.8	56	23	242	41	372	228	27	14	18	68	18
3	3.2	39	24	197	34	214	199	38	17	25	69	20
4	3.0	25	25	153	30	135	150	40	68	47	62	35
5	2.5	18	25	124	34	91	110	29	94	92	45	33
6	4.3	13	26	129	38	67	83	20	50	96	34	28
7	5.5	11	27	157	41	55	63	22	26	70	27	26
8	6.0	9.8	30	166	42	45	48	20	28	40	26	24
9	8.1	19	30	140	40	39	38	17	27	24	79	20
10	9.0	31	30	99	38	62	30	20	29	20	288	16
11	9.5	60	30	68	36	83	26	76	77	24	313	15
12	14	73	30	54	37	111	23	284	94	20	123	13
13	28	70	29	49	37	172	21	986	56	14	54	19
14	62	113	30	45	36	317	19	1,210	29	11	30	20
15	80	167	31	40	36	572	18	1,250	20	8.5	20	20
16	86	190	33	36	39	714	17	1,120	17	6.6	18	20
17	83	169	34	34	45	681	16	861	13	7.5	15	18
18	66	147	33	32	51	583	15	584	10	7.0	14	17
19	48	126	33	30	59	632	16	335	11	6.0	15	15
20	36	94	78	28	72	739	17	144	25	6.1	15	14
21	30	62	433	28	185	793	43	56	22	5.6	16	14
22	22	42	813	28	520	715	148	27	30	5.0	17	13
23	17	29	1,010	46	716	508	209	18	58	5.0	18	15
24	24	22	975	123	802	278	148	15	53	6.5	20	34
25	27	18	905	188	685	153	83	14	31	9.6	23	93
26	20	16	727	218	576	99	45	12	19	18	22	120
27	18	16	481	208	634	74	29	11	16	46	19	122
28	29	17	262	189	656	62	22	12	15	59	20	96
29	51	19	142	159	-----	81	18	12	13	86	22	54
30	58	21	85	117	-----	148	22	11	12	105	22	29
31	59	-----	131	79	-----	194	-----	10	-----	102	20	-----
TOTAL	915.0	1,754.8	6,587	3,423	5,615	9,347	2,127	7,307	986	1,004.4	1,615	1,000
MEAN	29.5	58.5	212	110	201	302	70.9	236	32.9	32.4	52.1	33.3
MAX	86	190	1,010	242	802	793	228	1,250	94	105	313	122
MIN	2.5	9.8	22	28	30	39	15	10	10	5.0	14	13
AC-FT	1,810	3,480	13,070	6,790	11,140	18,540	4,220	14,490	1,960	1,990	3,200	1,980
CAL YR 1970	TOTAL 78,230.74		MEAN 214	MAX 2,750	MIN .53	AC-FT 155,200						
WTR YR 1971	TOTAL 41,681.20		MEAN 114	MAX 1,250	MIN 2.5	AC-FT 82,670						

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 northwest 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 only 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.

GAUGE.--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, 3,780 cfs May 24 (gage height, 15.06 ft, from floodmark); minimum gage height, not determined.

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).

GAUGE 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	-	1.95	1.45	5.05	5.20	9.88	9.24	-	-	1.58	2.86	6.82
2	-	1.92	1.45	5.28	5.12	9.65	9.53	-	-	1.51	2.76	6.69
3	-	1.88	1.41	5.41	5.15	9.29	9.64	-	-	1.38	2.74	6.48
4	-	1.78	1.36	5.30	5.31	8.82	9.48	-	-	1.35	2.88	6.21
5	-	1.65	1.33	5.24	5.59	8.33	9.15	-	-	1.37	3.04	5.93
6	-	1.54	1.33	5.04	5.89	7.92	8.74	-	-	1.67	3.85	5.60
7	-	1.44	1.34	4.83	6.22	7.72	8.34	-	-	1.82	3.50	5.15
8	1.21	1.38	1.35	5.07	6.56	7.52	7.90	-	-	1.70	3.44	4.65
9	1.28	1.46	1.36	5.33	6.85	7.34	7.49	-	-	1.51	3.55	4.16
10	1.26	1.60	1.37	5.36	7.08	7.48	7.08	-	5.01	1.38	4.45	3.70
11	1.27	1.94	1.36	5.20	7.23	7.67	6.67	-	4.47	1.34	5.27	3.26
12	1.66	2.24	1.35	4.89	7.33	7.65	6.26	-	4.18	1.37	5.95	2.88
13	2.10	2.40	1.32	4.58	7.32	8.50	5.85	-	4.02	1.44	5.73	2.54
14	2.14	3.07	1.28	4.33	7.22	8.71	5.42	-	3.55	1.44	5.55	2.28
15	2.35	3.54	1.25	4.10	7.04	8.61	5.00	-	3.03	1.41	5.66	2.10
16	2.57	3.74	1.27	3.91	6.79	8.78	4.61	-	2.62	1.39	5.90	1.97
17	2.68	3.90	1.25	3.80	6.45	9.12	4.23	-	2.24	1.40	6.14	1.84
18	2.72	3.84	1.24	3.82	6.05	9.32	3.90	-	1.95	1.42	6.36	1.74
19	2.64	3.63	1.25	3.93	5.55	9.58	3.62	-	1.75	1.41	6.54	1.66
20	2.60	3.38	1.35	4.04	5.56	9.88	3.35	-	1.61	1.39	6.68	1.63
21	2.30	3.07	7.78	4.09	5.49	10.13	3.23	-	1.57	1.37	6.80	1.55
22	2.11	2.72	8.33	4.04	8.95	10.37	3.25	-	1.63	1.33	6.88	1.49
23	1.92	2.40	9.01	4.23	9.98	10.47	-	-	1.65	1.25	6.96	1.44
24	1.83	2.15	9.45	4.68	9.89	10.28	-	-	1.83	1.25	7.01	1.38
25	1.74	1.95	9.44	4.87	9.68	9.83	-	-	1.88	1.40	7.01	1.36
26	1.74	1.81	9.28	5.18	9.67	9.38	-	-	1.68	2.14	7.00	1.75
27	1.71	1.70	8.93	5.34	10.51	8.99	-	-	1.48	2.73	6.98	2.11
28	2.37	1.62	8.27	5.38	10.22	8.72	-	-	1.38	2.91	6.93	2.21
29	2.21	1.57	7.30	5.41	-----	8.80	-	-	1.44	3.24	6.90	2.11
30	2.05	1.53	6.18	5.43	-----	9.10	-	-	1.54	3.07	6.90	1.80
31	2.00	-----	5.40	5.33	-----	9.13	-----	-	-----	3.04	6.89	-----
MAX	2.72	3.90	9.45	5.43	10.51	10.37	9.64	-	-	3.24	7.01	6.82
MIN	-	1.38	1.24	3.80	5.12	7.34	-	-	1.38	1.25	2.74	1.36

RED RIVER BASIN

55

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.--16 years, 163 cfs (15.70 inches per year, 118,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,040 cfs Aug. 6 (gage height, 8.30 ft); minimum, 9.0 cfs Sept. 15, 16 (gage height, 1.35 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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	94	50	143	70	178	212	62	24	49	232	15
2	36	94	52	143	61	177	259	68	25	69	175	14
3	26	79	52	131	57	159	232	75	26	88	226	14
4	20	59	52	144	58	121	152	81	28	88	367	15
5	17	47	54	130	71	96	102	66	38	103	643	16
6	15	40	54	120	80	84	83	54	39	128	992	15
7	15	37	54	125	86	76	70	87	32	110	903	14
8	17	36	50	131	83	70	58	130	32	67	630	12
9	47	80	49	120	76	64	52	132	48	42	372	11
10	46	103	49	101	68	94	48	104	36	27	227	10
11	66	117	49	90	62	138	46	147	28	20	161	10
12	107	116	48	85	79	165	43	250	26	16	90	9.8
13	128	124	49	82	107	237	41	390	26	13	62	9.5
14	140	176	50	79	132	333	40	450	24	12	46	9.3
15	136	185	52	76	136	403	38	423	20	11	33	9.1
16	133	190	65	71	159	570	36	378	19	9.5	25	9.2
17	127	184	73	68	173	659	35	330	18	20	21	9.3
18	103	189	84	65	174	509	35	205	15	22	20	9.3
19	93	200	91	62	198	324	34	87	15	39	17	11
20	88	175	183	58	264	197	35	53	16	53	15	14
21	74	122	330	55	279	168	56	41	31	87	16	13
22	72	86	427	55	287	159	110	34	21	101	16	72
23	75	69	416	74	277	137	312	32	19	68	16	196
24	95	58	309	91	274	108	412	30	18	47	37	228
25	92	51	226	102	236	88	335	29	15	78	35	143
26	88	50	167	109	187	78	182	27	15	139	25	61
27	90	48	112	128	162	68	97	27	15	155	18	40
28	106	48	85	145	169	70	65	41	17	201	14	31
29	107	48	74	138	-----	107	52	32	26	255	13	25
30	102	50	79	104	-----	146	58	26	40	297	20	21
31	95	-----	124	80	-----	187	-----	24	-----	280	20	-----
TOTAL	2,407	2,955	3,609	3,105	4,065	5,970	3,330	3,915	752	2,694.5	5,487	1,066.5
MEAN	77.6	98.5	116	100	145	193	111	126	25.1	86.9	177	35.6
MAX	140	200	427	145	287	659	412	450	48	297	992	228
MIN	15	36	48	55	57	64	34	24	15	9.5	13	9.1
CFSM	.55	.70	.82	.71	1.03	1.37	.79	.89	.18	.62	1.26	.25
IN.	.64	.78	.95	.82	1.07	1.58	.88	1.03	.20	.71	1.45	.28
AC-FT	4,770	5,860	7,160	6,160	8,060	11,840	6,610	7,770	1,490	5,340	10,880	2,120

CAL YR 1970 TOTAL 56,251.2 MEAN 154 MAX 1,920 MIN 9.2 CFSM 1.09 IN 14.84 AC-FT 111,600
WTR YR 1971 TOTAL 39,356.0 MEAN 108 MAX 992 MIN 9.1 CFSM .77 IN 10.38 AC-FT 78,060

PEAK DISCHARGE (BASE, 1,000 CFS).--Aug. 6 (1815) 1,040 cfs (8.30 ft).

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, 9.60 ft May 12; minimum, 3.76 ft Sept. 18.

Period of record: Maximum gage height, 10.66 ft May 2, 1970; minimum since conservation pool first filled in May 1968, 3.76 ft Sept. 18, 1971.

REMARKS.--Reservoir is used for flood control and conservation. The reservoir is formed by an earthfill dam, containing a reinforced concrete drop inlet spillway near the left end of dam. Outflow from lake is uncontrolled over spillway. Outflow below spillway elevation is controlled by sluice gates at outlet. Capacity, 100,000 acre-ft at elevation 185.0 ft mean sea level. Dam completed and storage began in 1966.

Discharge measurements made during collection of record

Date	Discharge (cfs)
Aug. 5, 1971 . .	1,360
9	1,110

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	8.32	8.62	8.78	9.22	9.18	9.38	9.30	9.20	9.17	8.93	9.04	3.93
2	8.32	8.64	8.78	9.22	9.15	9.38	9.31	9.19	9.15	8.92	9.02	3.97
3	8.31	8.64	8.78	9.21	9.16	9.40	9.30	9.16	9.14	8.96	9.09	3.95
4	8.30	8.62	8.78	9.28	9.16	9.40	9.30	9.14	9.12	8.95	8.71	3.92
5	8.29	8.61	8.77	9.23	9.20	9.31	9.29	9.13	9.10	8.99	8.36	3.91
6	8.28	8.60	8.76	9.22	9.20	9.32	9.29	9.12	9.09	8.99	7.99	3.90
7	8.27	8.59	8.76	9.21	9.19	9.32	9.25	9.37	9.08	8.95	7.69	3.89
8	8.26	8.58	8.75	9.21	9.20	9.29	9.24	9.39	9.06	8.93	7.34	3.90
9	8.35	8.72	8.74	9.21	9.18	9.27	9.22	9.36	9.02	8.92	7.01	3.89
10	8.30	8.70	8.74	9.21	9.15	9.34	9.22	9.39	9.01	8.91	6.79	3.87
11	8.28	8.70	8.78	9.21	9.14	9.33	9.22	9.49	9.00	8.90	6.46	3.86
12	8.39	8.72	8.79	9.21	9.22	9.34	9.21	9.54	9.00	8.87	6.10	3.84
13	8.42	8.70	8.78	9.22	9.20	9.34	9.21	9.58	8.99	8.85	5.91	3.82
14	8.41	8.84	8.77	9.23	9.18	9.35	9.19	9.56	8.97	8.84	5.60	3.81
15	8.41	8.85	8.75	9.23	9.22	9.36	9.18	9.52	8.93	8.83	5.28	3.80
16	8.40	8.83	8.81	9.22	9.26	9.37	9.18	9.49	8.92	8.81	4.91	3.79
17	8.38	8.83	8.79	9.22	9.27	9.34	9.17	9.46	8.92	8.93	4.57	3.78
18	8.37	8.84	8.79	9.22	9.27	9.31	9.17	9.42	8.90	8.93	4.34	3.76
19	8.42	8.80	8.80	9.21	9.39	9.39	9.17	9.40	8.89	8.92	4.16	3.80
20	8.45	8.81	8.98	9.20	9.40	9.34	9.18	9.39	8.85	8.88	4.06	3.79
21	8.45	8.80	9.16	9.19	9.41	9.30	9.21	9.35	8.89	8.85	4.04	3.78
22	8.43	8.80	9.21	9.20	9.48	9.32	9.20	9.31	8.90	8.84	4.03	3.84
23	8.41	8.80	9.23	9.24	9.42	9.30	9.25	9.29	8.89	8.86	4.03	3.92
24	8.51	8.78	9.22	9.24	9.40	9.29	9.23	9.28	8.90	8.84	4.02	3.93
25	8.51	8.77	9.22	9.24	9.38	9.30	9.20	9.26	8.89	8.91	4.02	3.95
26	8.51	8.77	9.21	9.24	9.42	9.29	9.19	9.23	8.87	8.92	4.01	3.96
27	8.59	8.77	9.21	9.23	9.41	9.28	9.19	9.22	8.83	8.92	4.00	3.96
28	8.65	8.77	9.20	9.20	9.40	9.27	9.18	9.20	8.93	9.03	3.99	3.96
29	8.64	8.78	9.22	9.20	-----	9.31	9.17	9.18	8.94	9.09	3.97	3.94
30	8.63	8.78	9.21	9.20	-----	9.31	9.20	9.16	8.93	9.09	3.94	3.93
31	8.62	-----	9.25	9.19	-----	9.30	-----	9.14	-----	9.08	3.92	-----
MAX	8.65	8.85	9.25	9.28	9.48	9.40	9.31	9.58	9.17	9.09	9.09	3.97
MIN	8.26	8.58	8.74	9.19	9.14	9.27	9.17	9.12	8.83	8.81	3.92	3.76

RED RIVER BASIN

57

07365800 Cornie Bayou near Three Creeks, Ark.

LOCATION.--Lat 33°02'21", long 92°56'15", in SW 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 current year.

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

AVERAGE DISCHARGE.--15 years, 150 cfs (11.32 inches per year, 108,700 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 4,390 cfs May 2 (gage height, 11.15 ft); no flow at times.

Water year 1971: Maximum discharge, 700 cfs Apr. 22 (gage height, 9.50 ft); minimum, 0.10 cfs Oct. 7.

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, and 1970.

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

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1		5.5	21	1,570	57	413	162	783	95	1.2	1.5	3.3		
2		13	20	1,340	248	301	301	3,200	180	.90	1.3	3.3		
3		15	20	830	362	505	273	2,290	190	.70	1.1	3.6		
4		9.8	19	550	424	1,920	235	1,060	110	.60	.90	3.6		
5		7.3	18	317	494	1,820	153	640	65	.50	.80	3.3		
6		5.7	18	186	400	1,260	107	448	40	.40	.70	3.0		
7		4.0	21	202	198	880	84	214	25	.30	.70	2.7		
8		3.0	24	235	115	603	72	99	15	.30	.60	2.1		
9		2.2	37	206	94	412	62	67	15	.30	.60	2.0		
10		1.8	43	138	84	253	64	52	10	.20	.50	1.7		
11		1.6	35	102	76	177	64	44	10	.30	.60	1.2		
12		1.5	28	104	64	171	60	38	8.0	.40	.50	1.0		
13		1.4	25	104	56	206	56	33	8.0	.30	.50	1.1		
14		1.6	23	92	49	230	50	28	7.0	.50	.60	1.3		
15		2.0	21	76	61	190	43	25	7.0	.60	.50	1.2		
16		2.1	20	67	247	141	142	23	6.5	.60	.40	1.2		
17		5.9	19	62	402	184	294	20	5.9	.50	.50	1.4		
18		89	18	60	507	391	294	17	5.4	.50	.50	1.6		
19		252	18	58	615	648	425	15	4.8	.60	2.0	1.8		
20		280	18	54	503	1,060	700	15	3.9	.50	8.7	1.7		
21		280	25	51	284	1,000	830	10	3.2	3.8	8.2	1.6		
22		226	36	47	140	1,060	740	10	2.6	5.2	14	2.0		
23		91	39	44	102	1,000	547	10	2.4	4.2	49	2.5		
24		45	42	43	99	880	310	10	2.1	4.8	52	2.7		
25		34	40	44	227	640	168	10	1.7	6.0	23	1.6		
26		29	36	44	362	481	305	25	1.6	5.2	14	1.5		
27		26	32	44	391	301	413	35	1.5	6.6	10	1.4		
28		24	32	44	435	180	532	60	1.5	5.2	7.5	1.1		
29		22	93	42	-----	162	670	50	1.6	3.3	6.0	.90		
30		22	311	40	-----	174	535	70	1.5	2.2	5.0	.80		
31		-----	627	40	-----	174	-----	140	-----	1.7	4.2	-----		
TOTAL	0	1,503.4	1,779	6,836	7,096	17,817	8,691	9,541	831.2	58.40	216.50	58.20		
MEAN	0	50.1	57.4	221	253	575	290	308	27.7	1.88	6.98	1.94		
MAX	0	280	627	1,570	615	1,920	830	3,200	190	6.6	52	3.6		
MIN	0	1.4	18	40	49	141	43	10	1.5	.20	.40	.80		
CFSM	0	.28	.32	1.23	1.41	3.19	1.61	1.71	.15	.010	.039	.011		
IN.	0	.31	.37	1.41	1.47	3.68	1.80	1.97	.17	.01	.04	.01		
AC-FT	0	2,980	3,530	13,560	14,070	35,340	17,240	18,920	1,650	116	429	115		
CAL YR 1969	TOTAL	58,047.00	MEAN	159	MAX	3,110	MIN	0	CFSM	.88	IN.	12.00	AC-FT	115,100
WTR YR 1970	TOTAL	54,427.70	MEAN	149	MAX	3,200	MIN	0	CFSM	.83	IN.	11.25	AC-FT	108,000

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
1- 1	1200	10.23	1,660	5- 2	1500	11.15	4,390
3- 4	1600	10.52	2,310				

RED RIVER BASIN

07365800 Cornie Bayou near Three Creeks, Ark.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	12	6.8	25	30	56	139	88	6.0	.70	95	2.2
2	.60	9.5	6.5	25	30	46	78	154	5.7	.78	61	2.2
3	.50	7.5	6.4	25	25	41	58	84	5.3	.90	34	2.1
4	.40	5.9	6.4	28	30	39	47	40	4.8	1.8	39	2.2
5	.30	4.9	6.7	36	40	38	41	29	4.5	2.5	105	2.8
6	.20	4.4	7.0	46	50	37	35	24	3.9	3.7	119	3.3
7	.10	3.9	7.0	35	40	33	31	25	3.2	5.3	97	2.7
8	.30	3.4	7.1	26	35	31	28	24	2.8	5.1	72	2.4
9	2.0	7.0	7.2	22	30	29	27	25	2.4	3.6	68	2.1
10	2.0	12	6.4	20	25	28	25	35	2.1	2.6	59	1.7
11	1.5	24	5.9	19	30	28	24	80	1.8	1.9	30	1.5
12	3.0	31	5.9	19	35	36	23	250	1.7	1.9	38	1.3
13	5.0	21	6.0	18	40	262	22	400	1.6	1.9	37	1.1
14	3.5	29	6.0	18	40	465	21	250	1.5	1.6	40	.95
15	2.0	48	7.7	17	45	546	20	150	1.2	1.3	40	.83
16	1.5	85	11	17	54	632	19	100	.99	1.2	23	.80
17	1.5	52	13	16	88	461	18	70	.83	2.1	16	.88
18	1.5	25	19	16	87	167	19	45	.73	2.2	11	.84
19	4.5	16	19	15	72	91	19	35	.64	2.5	8.7	.88
20	4.1	12	28	14	179	74	20	25	.60	2.3	6.9	.89
21	4.0	10	41	13	255	63	113	20	.64	1.6	5.6	.85
22	3.5	9.3	67	12	304	52	374	15	.55	1.8	4.9	6.8
23	4.5	9.3	60	15	339	47	589	15	.50	2.2	4.4	14
24	5.0	7.8	40	20	280	43	374	10	.47	8.8	4.6	8.3
25	4.5	6.4	31	30	151	40	190	10	.38	14	6.6	4.4
26	4.5	5.9	25	120	90	41	92	9.5	.30	46	5.0	3.5
27	7.0	5.8	20	90	80	49	54	8.5	.30	91	3.3	2.8
28	13	5.5	18	65	71	58	41	8.0	.20	54	3.0	2.4
29	14	6.6	21	50	-----	135	36	7.0	.30	39	3.0	2.4
30	21	7.4	23	40	-----	288	42	6.5	.37	62	3.0	2.0
31	16	-----	26	35	-----	255	-----	6.0	-----	76	2.5	-----
TOTAL	132.20	487.5	561.0	947	2,575	4,211	2,619	2,048.5	56.30	442.28	1,045.5	81.12
MEAN	4.26	16.3	18.1	30.5	92.0	136	87.3	66.1	1.88	14.3	33.7	2.70
MAX	21	85	67	120	339	632	589	400	6.0	91	119	14
MIN	.10	3.4	5.9	12	25	28	18	6.0	.20	.70	2.5	.80
CFSM	.02	.09	.10	.17	.51	.76	.49	.37	.01	.08	.19	.02
IN.	.03	.10	.12	.20	.53	.87	.54	.42	.01	.09	.22	.02
AC-FT	262	967	1,110	1,880	5,110	8,350	5,190	4,060	112	877	2,070	161
CAL YR 1970	TOTAL 52,326.00	MEAN 143	MAX 3,200	MIN .10	CFSM .79	IN 10.81	AC-FT 103,800					
WTR YR 1971	TOTAL 15,206.40	MEAN 41.7	MAX 632	MIN .10	CFSM .23	IN 3.14	AC-FT 30,160					

PEAK DISCHARGE (BASE, 1,400 CFS).--No peak above base.

07365900 Three Creek near Three Creeks, Ark.

LOCATION.--Lat 33°04'01", long 92°53'02", in NE $\frac{1}{4}$ sec.20, T.19 S., R.17 W., Union County, near right bank on downstream side of bridge on State Highway 15, 2.2 miles southwest of town of Three Creeks, and 1.8 miles upstream from Ash Branch.

DRAINAGE AREA.--50.3 sq mi.

PERIOD OF RECORD.--February 1956 to September 1971 (discontinued as a continuous-record station; converted to a crest-stage partial-record station).

GAGE.--Water-stage recorder. Datum of gage is 155.63 ft above mean sea level. Prior to June 14, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--15 years, 49.5 cfs (13.36 inches per year, 35,860 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 3,320 cfs Mar. 4 (gage height, 6.49 ft); no flow Oct. 4-12, Aug. 19.

Water year 1971: Maximum discharge, 510 cfs Mar. 14 (gage height, 5.05 ft); no flow July 13-16.

Period of record: Maximum discharge, 11,300 cfs Apr. 26, 1958 (gage height, 9.35 ft), from rating curve extended above 2,300 cfs on basis of contracted-opening measurement of peak flow; no flow at times in most years.

Maximum stage since at least 1880, that of Apr. 26, 1958.

REMARKS.--Records good.

REVISIONS.--WRD Ark, 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	9.7	2.2	404	34	59	37	826	24	.20	.25	.81
2	.10	4.4	2.2	167	220	60	204	1,260	83	.20	.21	.68
3	.10	2.6	2.2	59	312	663	170	406	94	.20	.19	1.1
4	0	1.6	2.1	28	206	2,370	82	154	26	.20	.15	1.1
5	0	1.4	2.0	20	74	707	39	47	12	.20	.12	.64
6	0	1.4	2.2	58	38	279	25	19	8.4	.10	.12	.47
7	0	1.3	5.2	107	27	134	19	13	6.5	.10	.08	.42
8	0	1.3	7.4	84	22	73	16	9.7	5.2	.10	.07	.38
9	0	1.2	6.5	36	20	48	14	7.6	4.2	.10	.06	.34
10	0	1.2	5.9	30	18	34	14	6.5	3.5	.20	.11	.30
11	0	1.3	5.6	24	16	29	14	5.9	2.8	.20	.15	.25
12	0	1.3	4.6	28	14	38	14	5.2	2.4	2.3	.18	.21
13	.10	1.5	4.0	28	13	45	13	4.7	2.0	.70	.20	.18
14	.20	1.4	3.4	22	12	33	11	4.1	1.6	.50	.15	.19
15	.40	1.3	3.0	18	24	24	10	3.4	1.3	.40	.13	.18
16	.60	1.1	2.6	16	179	19	82	2.9	1.2	.40	.09	.25
17	.60	3.5	2.6	16	291	59	164	2.8	.90	.50	.04	.40
18	.50	61	2.5	15	214	211	132	2.2	.60	.30	.01	.63
19	.40	130	2.4	14	80	404	322	1.6	.50	.30	0	.50
20	.40	175	2.4	13	38	404	738	1.4	.40	.30	.01	.42
21	.40	62	12	12	22	397	391	1.3	.30	2.7	18	.32
22	.50	14	22	11	18	425	132	1.4	2.0	2.8	14	.60
23	.50	8.2	17	11	17	316	41	1.2	6.3	.74	11	.57
24	.50	5.8	13	11	20	166	23	.80	3.0	.77	5.1	1.4
25	.40	4.6	11	11	144	82	45	.70	1.9	.69	2.9	.84
26	.40	4.0	13	11	267	53	201	4.2	1.2	.54	1.7	.50
27	.50	3.4	12	12	230	34	282	10	.80	.50	1.2	.43
28	.40	2.9	12	12	100	25	177	27	.50	.53	.95	.47
29	.40	2.8	86	11	-----	32	59	20	.40	.43	1.5	.36
30	1.1	2.5	296	11	-----	42	30	44	.30	.40	1.6	.29
31	8.0	-----	510	10	-----	33	-----	57	-----	.31	1.2	-----
TOTAL	16.60	513.7	1,075.0	1,310	2,670	7,298	3,501	2,950.60	297.20	17.91	61.47	15.23
MEAN	.54	17.1	34.7	42.3	95.4	235	117	95.2	9.91	.58	1.98	.51
MAX	8.0	175	510	404	312	2,370	738	1,260	94	2.8	18	1.4
MIN	0	1.1	2.0	10	12	19	10	.70	.30	.10	0	.18
CFSM	.01	.34	.69	.84	1.90	4.68	2.32	1.89	.20	.01	.04	.01
IN.	.01	.38	.79	.97	1.97	5.40	2.59	2.18	.22	.01	.05	.01
AC-FT	33	1,020	2,130	2,600	5,300	14,480	6,940	5,850	589	36	122	30
CAL YR 1969	TOTAL	19,413.20	MEAN	53.2	MAX	1,800	MIN	0	CFSM	1.06	IN.	14.35
WTR YR 1970	TOTAL	19,726.71	MEAN	54.0	MAX	2,370	MIN	0	CFSM	1.07	IN.	14.59
AC-FT											38,510	
AC-FT											39,130	

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
3- 4	0600	5.49	3,320	5- 1	2400	5.88	2,010
4-20	1200	5.34	926				

RED RIVER BASIN

07365900 Three Creek near Three Creeks, Ark.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	2.4	1.5	7.3	6.6	12	72	31	.72	.12	14	.45
2	.24	1.7	1.5	7.1	5.8	9.9	37	17	.86	.29	5.9	2.7
3	.21	1.5	1.6	6.8	5.3	8.9	24	10	.72	.61	5.5	3.5
4	.17	1.2	1.6	12	5.4	9.0	17	7.7	.58	.40	5.6	4.9
5	.14	.87	1.4	20	7.6	8.4	14	6.5	.53	.27	9.5	2.7
6	.12	.80	1.3	15	13	7.8	11	5.9	.45	.21	16	1.7
7	.10	.82	1.2	8.9	11	7.1	9.8	6.6	.40	.16	13	1.0
8	.18	.76	1.1	6.8	8.6	6.5	8.6	5.9	.36	.13	8.9	.68
9	1.1	5.0	1.0	5.8	7.1	6.1	7.9	5.3	.38	.10	5.8	.53
10	.95	11	1.2	5.3	6.1	6.6	7.4	7.5	.37	.08	4.0	.41
11	.76	11	1.3	5.0	5.6	6.5	7.1	34	.37	.04	7.0	.32
12	2.8	6.6	1.2	4.7	9.5	24	6.7	97	.32	.02	5.0	.28
13	2.5	5.5	1.2	4.6	23	270	6.3	246	.29	0	3.3	.24
14	3.2	22	1.0	4.4	26	417	5.7	270	.25	0	2.3	.20
15	2.0	42	2.0	4.0	18	330	5.4	96	.22	0	1.5	.15
16	1.3	20	4.4	3.6	37	102	5.3	22	.21	0	1.0	.12
17	.93	8.5	3.9	3.4	46	38	4.9	12	.20	.91	.76	.07
18	.70	5.7	4.2	3.2	24	23	4.8	8.3	.20	2.0	.56	.06
19	1.0	4.2	4.1	3.0	30	22	5.2	6.3	.20	.38	.42	.13
20	2.7	3.2	11	2.7	113	19	5.7	5.0	.15	.42	.36	.15
21	1.6	2.7	16	2.6	153	15	74	4.0	.14	.33	.32	.18
22	1.3	2.3	17	2.7	75	12	193	3.3	.25	.27	.28	2.2
23	1.4	2.0	13	3.4	60	11	345	2.7	.42	.39	.29	3.5
24	3.2	1.6	8.9	19	28	9.6	261	2.3	.32	2.6	5.5	1.4
25	3.0	1.4	6.7	117	16	8.6	78	1.9	.23	20	8.6	1.3
26	2.7	1.4	5.3	86	19	10	26	1.5	.18	18	3.4	1.1
27	3.1	1.5	4.4	24	21	11	15	1.2	.14	11	2.0	.73
28	7.3	1.5	3.9	13	16	11	11	1.1	.11	12	1.8	.54
29	7.4	1.5	5.8	10	-----	71	10	.93	.08	8.5	1.1	.42
30	5.3	1.5	5.9	8.7	-----	280	22	.80	.07	11	.61	.34
31	3.4	-----	7.1	7.7	-----	257	-----	.65	-----	20	.41	-----
TOTAL	61.05	172.15	141.7	427.7	796.6	2,030.0	1,300.8	920.38	9.72	110.23	134.71	32.00
MEAN	1.97	5.74	4.57	13.8	28.5	65.5	43.4	29.7	.32	3.56	4.35	1.07
MAX	7.4	42	17	117	153	417	345	270	.86	20	16	4.9
MIN	.10	.76	1.0	2.6	5.3	6.1	4.8	.65	.07	0	.28	.06
CFSM	.04	.11	.09	.27	.57	1.30	.86	.59	.006	.07	.09	.02
IN.	.35	.13	.10	.32	.59	1.50	.96	.68	.007	.08	.10	.02
AC-FT	121	341	281	848	1,580	4,030	2,580	1,830	19	219	267	63

CAL YR 1970 TOTAL 18,496.31 MEAN 50.7 MAX 2,370 MIN 0 CFSM 1.01 IN 13.68 AC-FT 36,690
WTR YR 1971 TOTAL 6,137.04 MEAN 16.8 MAX 417 MIN 0 CFSM .33 IN 4.54 AC-FT 12,170

PEAK DISCHARGE (BASE, 600 CFS).--No peak above base.

RED RIVER BASIN

61

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.--16 years, 166 cfs (10.84 inches per year, 120,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,060 cfs Apr. 24 (gage height, 7.01 ft); minimum, 2.4 cfs July 16, 17 (gage height, 1.24 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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	54	36	144	57	202	324	73	9.2	19	283	7.2
2	7.1	43	36	120	51	128	391	88	8.8	19	171	7.0
3	6.4	35	36	94	47	95	469	81	8.9	17	270	7.4
4	5.8	30	36	89	47	86	376	55	9.8	22	417	7.8
5	5.3	28	35	118	64	78	164	44	12	43	508	7.5
6	4.9	28	33	150	73	73	90	39	8.8	35	532	7.0
7	4.5	28	31	137	65	67	70	117	7.2	30	496	6.2
8	5.6	28	30	97	60	60	61	277	6.4	15	333	5.3
9	14	51	30	76	54	56	56	136	5.7	8.7	112	4.6
10	37	92	30	71	51	107	52	83	5.7	6.2	58	4.1
11	40	94	30	71	48	229	51	238	6.3	5.0	100	3.9
12	52	97	31	69	58	167	48	373	5.9	4.1	183	3.8
13	84	60	31	65	97	235	44	465	5.3	3.3	201	3.7
14	93	122	31	62	121	432	41	487	4.7	3.0	72	3.5
15	67	204	31	60	119	570	39	445	4.1	2.8	39	3.5
16	47	229	41	56	154	824	37	411	3.8	2.6	31	3.5
17	32	215	64	53	190	823	36	395	3.5	7.3	22	3.5
18	23	146	69	51	196	662	34	207	3.3	51	17	4.0
19	24	61	63	48	185	503	35	59	3.1	120	14	4.6
20	47	50	161	45	279	345	35	40	3.4	188	11	5.4
21	58	46	451	44	356	244	44	32	3.4	251	10	6.4
22	51	42	569	45	371	162	64	26	3.2	94	16	151
23	40	39	491	58	383	115	430	22	3.4	24	14	427
24	47	37	295	76	365	93	1,000	19	4.6	20	11	237
25	61	35	142	75	297	81	800	17	4.7	48	17	67
26	57	34	89	114	212	75	562	15	4.6	164	39	36
27	51	34	71	175	262	75	305	14	4.5	329	27	24
28	64	35	63	190	265	81	94	13	4.0	446	16	20
29	83	36	61	113	-----	132	59	12	6.1	468	12	16
30	93	36	80	73	-----	258	60	11	20	437	9.0	12
31	74	-----	137	63	-----	308	-----	9.9	-----	403	7.7	-----
TOTAL	1,286.9	2,089	3,334	2,702	4,527	7,366	5,871	4,303.9	184.4	3,286.0	4,048.7	1,099.9
MEAN	41.5	69.6	108	87.2	162	238	196	139	6.15	106	131	36.7
MAX	93	229	569	190	383	824	1,000	487	20	468	532	427
MIN	4.5	28	30	44	47	56	34	9.9	3.1	2.6	7.7	3.5
CFSM	.20	.33	.52	.42	.78	1.14	.94	.67	.03	.51	.63	.18
IN.	.23	.37	.60	.48	.81	1.32	1.05	.77	.03	.59	.72	.20
AC-FT	2,550	4,140	6,610	5,360	8,980	14,610	11,650	8,540	366	6,520	8,030	2,180

CAL YR 1970 TOTAL 68,981.1 MEAN 189 MAX 2,720 MIN 3.9 CFSM .91 IN 12.34 AC-FT 136,800
WTR YR 1971 TOTAL 40,098.8 MEAN 110 MAX 1,000 MIN 2.6 CFSM .53 IN 7.17 AC-FT 79,540

PEAK DISCHARGE (BASE, 1,200 CFS).--No peaks above the base.

RED RIVER BASIN

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 (revised).

PERIOD OF RECORD.--December 1964 to current year (gage height 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, 40.90 ft May 14; minimum, 30.83 ft Dec. 14.

Period of record: Maximum gage height, 42.52 ft May 4, 1966; 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 used for flood control and conservation. The reservoir is formed by an earthfill dam, containing a 799 ft long reinforced concrete spillway at left of dam. Outflow from lake is uncontrolled over spillway. Outflow below spillway elevation is controlled by sluice gates at outlet. Capacity, 130,000 acre-ft at elevation 80.0 ft mean sea level. There is no dead storage. Dam completed and storage began in 1964.

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	33.62	31.48	31.64	33.62	33.73	38.12	40.24	40.46	39.96	39.72	40.06	39.80
2	33.42	31.40	31.65	33.38	33.82	38.33	40.25	40.39	39.96	39.83	40.04	39.81
3	33.29	31.31	31.66	33.12	33.88	38.51	40.25	40.30	39.94	39.85	40.05	39.80
4	33.19	31.26	31.67	32.80	33.96	38.65	40.25	40.24	39.93	39.85	40.06	39.78
5	33.06	31.21	31.67	32.52	34.06	38.78	40.26	40.19	39.91	39.86	40.12	39.77
6	32.93	31.16	31.67	32.23	34.14	38.91	40.25	40.16	39.89	39.85	40.24	39.76
7	32.82	31.13	31.67	31.92	34.23	39.00	40.20	40.34	39.87	39.85	40.31	39.74
8	32.72	31.08	31.66	31.84	34.29	39.10	40.18	40.45	39.86	39.82	40.36	39.73
9	32.80	31.16	31.65	31.74	34.36	39.17	40.15	40.51	39.84	39.80	40.38	39.71
10	32.80	31.23	31.45	31.64	34.43	39.34	40.14	40.59	39.83	39.79	40.39	39.69
11	32.81	31.31	31.23	31.54	34.50	39.46	40.12	40.68	39.82	39.76	40.37	39.69
12	33.05	31.35	31.05	31.56	34.58	39.62	40.09	40.74	39.80	39.74	40.35	39.68
13	33.11	31.39	30.92	31.58	34.71	39.76	40.06	40.85	39.79	39.72	40.34	39.66
14	33.07	31.62	30.84	31.71	34.82	39.90	40.04	40.89	39.76	39.70	40.34	39.64
15	32.98	31.68	30.86	31.83	34.95	39.99	40.03	40.89	39.74	39.68	40.34	39.63
16	32.80	31.72	30.91	31.95	35.08	40.07	40.02	40.85	39.77	39.65	40.32	39.61
17	32.59	31.74	30.95	32.06	35.21	40.14	40.00	40.76	39.78	39.87	40.30	39.60
18	32.38	31.72	30.99	32.16	35.36	40.21	40.00	40.67	39.76	39.87	40.28	39.58
19	32.16	31.70	31.04	32.24	35.49	40.35	39.98	40.62	39.74	39.84	40.26	39.58
20	32.22	31.67	31.32	32.33	35.76	40.39	39.97	40.54	39.72	39.82	40.24	39.64
21	32.17	31.62	33.05	32.41	36.05	40.44	39.99	40.46	39.72	39.80	40.23	39.63
22	32.10	31.56	33.75	32.48	36.36	40.46	39.99	40.40	39.72	39.80	40.18	39.63
23	32.02	31.46	34.23	32.64	36.62	40.44	40.01	40.34	39.71	39.80	40.11	39.66
24	32.00	31.46	34.55	32.78	36.86	40.39	40.00	40.29	39.74	39.79	40.04	39.70
25	31.92	31.50	34.80	32.93	37.07	40.35	40.03	40.24	39.72	39.93	40.02	39.76
26	31.85	31.52	34.88	33.10	37.34	40.31	40.10	40.17	39.70	39.97	39.97	39.79
27	31.76	31.55	34.73	33.22	37.59	40.26	40.18	40.13	39.68	40.03	39.94	39.80
28	31.92	31.56	34.54	33.32	37.84	40.24	40.28	40.09	39.66	40.08	39.89	39.81
29	31.81	31.58	34.30	33.44	-----	40.27	40.42	40.05	39.67	40.10	39.86	39.81
30	31.65	31.61	34.06	33.55	-----	40.26	40.53	40.02	39.67	40.10	39.83	39.80
31	31.55	-----	33.85	33.65	-----	40.25	-----	39.99	-----	40.07	39.81	-----
MAX	33.62	31.74	34.83	33.65	37.84	40.46	40.53	40.89	39.96	40.10	40.39	39.81
MIN	31.55	31.08	30.84	31.54	33.73	38.12	39.97	39.99	39.66	39.65	39.81	39.58

RED RIVER BASIN

63

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 1970. 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.--38 years (1932-70), 17,230 cfs (12,480,000 acre-ft per year).

EXTREMES.--1969-70: Maximum discharge during year, 47,800 cfs May 14; maximum gage height, 35.5 ft May 14, 15; minimum discharge not determined; minimum gage height observed, 13.3 ft June 20.

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 lock and dam No. 4. Flow regulated by Lake Greeson 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 1971 are published in Part 2 of this report.

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

NOTE.--Records for 1971 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

RED RIVER BASIN

07367700 Boeuf River near Arkansas-Louisiana State line

LOCATION.--Lat 32°58'25", long 91°26'25", in NE $\frac{1}{4}$ 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, 20.91 ft May 14; minimum discharge, 21 cfs July 14 (gage height, 1.10 ft), result of pumping for irrigation.

Period of record: Maximum gage height, 22.64 ft Feb. 23, 1961; 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.

Maximum stage since 1946, 22.8 ft Feb. 15, 1948.

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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	158	67						56			134
2	60	120	61						63			126
3	58	94	60		183				79			128
4	58	83	61		198			172	71			148
5	53	75	58				161	134	60			144
6	51	73	54				117	123	63	148		120
7	54	71	49			172	106		106	117		112
8	56	71	53			141	99		104	114		92
9	74		56		190	141	92	183	106	73		88
10	88		58		148		88		158	44		94
11	124		63		131		79			41		92
12			83		141		77			41		83
13			83		148		73			29		73
14			71		186		77		161	23		67
15			69	198			67		106	29		63
16				158	198		69		79	26		63
17				141	165		61		60	165		60
18	186		151	120	144		75		51	128	165	54
19			120	104			75			67	134	60
20				92			67			42	120	67
21				92						32	104	63
22				92						29	97	99
23		158							134	26	106	126
24	179	106								33		126
25	151	94					172		175			99
26	120	81					120	172	123			83
27	117	77					94	134	92			73
28		75					106	88	104		168	65
29		69					148	63	151		148	49
30		69			-----			61			141	39
31		-----			-----		-----	49	-----		137	-----
MAX	-	-	-	-	-	-	-	-	-	-	-	148
MIN	51	69	49	92	131	141	61	49	51	23	97	39

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 U. S. Highway 80 bridge, and 0.5 mile east of Girard.

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.

AVERAGE DISCHARGE.--33 years, 421 cfs (305,000 acre-ft per year).

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, 2.80 ft July 23, 1971.

Maximum stage known, 31.7 ft May 7, 1927, present 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 1971 are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	70	22	136	83	594	93	56	36	20	173	20
2	22	53	21	144	58	397	107	83	38	23	154	22
3	21	44	20	134	46	312	70	88	35	26	141	22
4	20	39	18	446	56	236	56	70	32	28	122	22
5	19	36	18	529	119	186	46	50	30	30	101	21
6	18	32	16	454	120	147	40	42	33	28	110	20
7	18	29	16	336	116	137	36	205	31	26	122	20
8	19	27	15	235	98	123	32	210	28	24	128	20
9	20	28	14	175	77	99	30	191	27	24	125	19
10	18	28	14	152	59	98	28	268	25	25	133	18
11	20	29	14	153	48	90	27	453	24	22	130	18
12	161	34	16	162	46	89	26	682	23	20	110	18
13	231	38	15	152	42	137	24	1,070	23	20	93	18
14	311	121	14	127	39	248	23	1,240	24	19	78	18
15	307	191	16	101	36	326	22	1,350	24	18	64	17
16	242	237	26	83	36	306	21	1,360	23	16	56	18
17	182	222	26	65	34	231	21	1,280	22	16	49	19
18	145	165	30	52	32	165	20	967	20	15	42	18
19	129	126	31	44	59	135	20	564	18	14	36	18
20	108	91	31	39	189	115	20	338	17	14	32	20
21	89	68	34	36	312	136	23	250	22	13	29	21
22	77	53	274	32	739	122	182	200	27	12	28	20
23	69	42	561	42	990	89	186	150	25	12	27	20
24	82	37	646	85	1,070	65	160	120	23	12	26	19
25	84	34	591	191	901	53	126	100	20	15	25	19
26	82	31	422	200	755	48	92	90	19	18	24	19
27	74	28	272	229	779	43	68	77	21	24	24	19
28	78	26	183	240	774	40	50	65	25	173	23	19
29	107	25	139	206	-----	51	46	55	20	311	22	18
30	110	24	126	167	-----	65	54	46	19	265	22	18
31	92	-----	127	118	-----	88	-----	40	-----	206	21	-----
TOTAL	2,978	2,008	3,768	5,265	7,713	4,971	1,749	11,760	754	1,489	2,270	578
MEAN	96.1	66.9	122	170	275	160	58.3	379	25.1	48.0	73.2	19.3
MAX	311	237	646	529	1,070	594	186	1,360	38	311	173	22
MIN	18	24	14	32	32	40	20	40	17	12	21	17
AC-FT	5,910	3,980	7,470	10,440	15,300	9,860	3,470	23,330	1,500	2,950	4,500	1,150
CAL YR 1970	TOTAL	46,196	MEAN	127	MAX	1,550	MIN	10	AC-FT	91,630		
WTR YR 1971	TOTAL	45,303	MEAN	124	MAX	1,360	MIN	12	AC-FT	89,860		

RED RIVER BASIN

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). Prior to Oct. 20, 1949, nonrecording gage, Oct. 20, 1949, to July 15, 1952, water-stage recorder, July 16, 1952, to Jan. 27, 1953, nonrecording gage, at same site at datum 87.29 ft higher. Jan. 28, 1953, to Jan. 20, 1954, nonrecording gage at same site at present datum. Auxiliary water-stage recorder 5.7 miles downstream at same datum as base gage. Jan. 1 to Oct. 7, 1954, auxiliary nonrecording gage at same site. Prior to Jan. 11, 1955, at datum 2.32 ft higher.

AVERAGE DISCHARGE.--22 years, 46.0 cfs (33,330 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,240 cfs May 14 (elevation, 92.71 ft); no flow for many days.

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 water temperatures for the water year 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	3.6	.51	22	1.4	134	6.3	196	0	215	4.2	
2	.05	2.4	.49	10	1.2	18	49	121	0	164	3.9	
3	.04	1.8	.45	13	.97	11	25	61	0	80	5.0	
4	0	1.4	.43	533	1.4	6.9	8.1	11	0	19	2.6	
5	0	1.1	.51	448	24	4.5	4.2	4.0	0	5.0	1.8	
6	0	1.0	.58	203	17	3.8	2.6	2.6	0	2.2	2.0	
7	0	.81	.61	24	7.7	2.8	1.8	2.2	0	1.5	2.0	
8	0	.65	.61	8.9	4.6	2.0	1.6	2.2	0	.91	1.3	
9	0	.68	.56	6.9	3.1	2.0	1.4	18	0	.60	3.0	
10	0	.86	.51	24	2.2	50	1.1	176	0	.40	11	
11	0	1.3	.65	53	1.8	17	.85	311	0	.30	5.0	
12	46	1.3	2.3	21	2.4	108	.70	662	0	.12	2.4	
13	275	1.8	2.4	11	3.6	384	.55	1,190	0	.06	1.5	
14	245	280	2.0	7.5	3.3	285	.40	1,220	0	0	.97	
15	45	241	6.9	5.5	3.2	79	.30	1,040	0	0	.65	
16	9.3	48	48	4.0	5.9	13	.26	619	0	0	.55	
17	5.0	14	17	2.8	5.7	5.5	.21	298	0	0	.33	
18	2.6	7.1	8.3	2.2	3.8	4.3	.12	72	0	.48	.19	
19	2.7	4.5	32	1.7	81	21	.08	5.5	0	1.2	.12	
20	7.3	3.4	307	1.5	393	12	.06	2.7	0	.80	0	
21	7.3	3.6	343	1.2	588	5.6	0	1.8	0	.55	0	
22	4.5	2.6	197	1.1	1,030	3.4	.06	1.2	0	.33	0	
23	2.8	1.7	91	45	989	2.4	.52	.85	0	.12	0	
24	5.7	1.4	24	72	620	1.8	1.0	.60	2.3	.06	0	
25	5.9	1.1	9.1	19	310	6.6	.82	.35	9.6	.12	0	
26	5.2	1.0	5.2	9.5	596	58	.60	.17	3.6	.42	0	
27	9.5	.83	3.6	6.1	758	13	.52	.12	1.9	3.2	0	
28	23	.75	2.4	3.6	401	6.3	.30	.10	1.4	20	0	
29	15	.63	2.4	2.5	-----	86	.30	.04	1.4	212	0	
30	8.9	.61	9.5	1.9	-----	80	.86	0	1.5	60	0	
31	5.9	-----	56	1.6	-----	14	-----	0	-----	7.9	0	-----
TOTAL	731.77	630.92	1,175.01	1,566.5	5,859.27	1,440.9	194.75	6,019.43	21.7	796.27	48.51	0
MEAN	23.6	21.0	37.9	50.5	209	46.5	6.49	194	.72	25.7	1.56	0
MAX	275	280	343	533	1,030	384	86	1,220	9.6	215	11	0
MIN	0	.61	.43	1.1	.97	1.8	0	0	0	0	0	0
AC-FT	1,450	1,250	2,330	3,110	11,620	2,860	386	11,940	43	1,580	96	0
CAL YR 1970: TOTAL	8,587.14		MEAN	23.5	MAX	512	MIN	0	AC-FT	17,030		
WTR YR 1971: TOTAL	18,485.03		MEAN	50.6	MAX	1,220	MIN	0	AC-FT	36,670		

RED RIVER BASIN

67

07369000 Bayou Lafourche near Crew Lake, La.

LOCATION.--Lat 32°29'55", long 91°55'05", in SW $\frac{1}{4}$ 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.--33 years, 1,413 cfs (1,024,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 17,200 cfs May 15 (gage height, 25.72 ft); minimum, 49 cfs July 16 (gage height, 1.56 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	564	161	2,770	574	4,380	869	2,730	210	950	1,630	201
2	93	389	154	1,690	457	1,020	921	2,210	389	1,370	1,360	203
3	91	260	143	1,240	392	780	988	1,190	298	1,160	1,150	216
4	86	200	157	2,960	386	680	856	567	233	908	1,320	238
5	83	179	135	5,070	1,170	600	700	401	214	590	1,340	266
6	83	159	140	3,730	1,420	550	600	511	190	410	1,900	242
7	97	145	118	2,130	995	500	500	2,900	186	260	2,130	203
8	91	140	113	1,150	670	550	400	2,570	218	235	1,960	176
9	118	177	116	839	489	600	300	1,420	204	229	1,500	168
10	117	1,310	116	946	365	670	250	3,300	190	214	1,180	149
11	130	1,780	113	1,680	305	1,080	200	8,140	270	157	1,200	151
12	1,790	1,030	200	1,570	325	1,040	170	11,400	730	138	1,380	172
13	4,050	666	210	1,220	359	4,180	161	15,600	676	101	1,040	144
14	5,310	2,580	198	870	339	6,190	173	16,800	404	73	995	124
15	3,170	5,260	194	703	386	4,820	161	17,100	218	58	1,110	109
16	1,470	4,140	580	538	420	2,910	145	16,000	168	51	765	103
17	822	2,160	795	445	380	1,160	137	13,400	127	62	450	109
18	664	1,170	633	380	316	691	145	7,930	104	159	311	105
19	696	942	410	314	516	1,440	159	3,350	263	184	278	105
20	984	594	678	258	2,830	2,660	164	2,500	1,520	143	278	134
21	1,260	473	5,720	235	4,910	1,410	265	1,700	839	90	276	137
22	970	470	10,800	229	13,200	780	1,190	1,300	511	67	242	126
23	627	389	11,200	806	15,000	400	1,680	1,100	275	56	252	151
24	768	305	9,290	2,660	14,200	200	1,200	950	206	69	261	188
25	703	253	5,430	3,210	8,240	400	686	800	240	130	438	178
26	442	220	2,360	4,250	8,460	812	395	700	229	1,720	488	147
27	931	206	1,590	4,460	13,200	532	270	600	204	4,570	415	109
28	3,220	194	1,190	3,530	10,300	246	237	500	322	6,210	351	101
29	2,320	181	1,080	2,010	-----	919	260	400	200	5,270	286	102
30	1,560	168	1,390	1,150	-----	2,280	1,180	348	260	2,760	252	96
31	894	-----	2,050	788	-----	1,470	-----	242	-----	1,950	209	-----
TOTAL	33,745	26,704	57,464	53,831	100,604	45,950	15,362	138,659	10,098	30,344	26,747	4,653
MEAN	1,089	890	1,854	1,736	3,593	1,482	512	4,473	337	979	863	155
MAX	5,310	5,260	11,200	5,070	15,000	6,190	1,680	17,100	1,520	6,210	2,130	266
MIN	83	140	113	229	305	200	137	242	104	51	209	96
AC-FT	66,930	52,970	114,000	106,800	199,500	91,140	30,470	275,000	20,030	60,190	53,050	9,230
CAL YR 1970: TOTAL	620,297		MEAN	1,699	MAX	15,100	MIN	58	AC-FT	1,230,000		
WTR YR 1971: TOTAL	544,161		MEAN	1,491	MAX	17,100	MIN	51	AC-FT	1,079,000		

RED RIVER BASIN

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, 92.03 ft May 14; minimum, 89.23 ft Oct. 11.

Period of record: Maximum elevation, 92.54 ft Apr. 10, 1968, but may have been higher during period of no gage-height record in November and December 1968; 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89.37	89.84	89.85	89.96	89.96	91.32	90.60	90.21	90.56	90.39	90.65	89.76
2	89.35	89.83	89.84	89.95	89.94	91.30	90.69	90.19	90.51	90.37	90.61	89.75
3	89.34	89.81	89.84	89.95	89.92	91.29	90.68	90.15	90.45	90.33	90.58	89.74
4	89.32	89.78	89.83	90.31	89.92	91.22	90.64	90.13	90.40	90.27	90.69	89.73
5	89.30	89.76	89.82	90.50	89.96	91.14	90.58	90.10	90.35	90.22	90.67	89.72
6	89.28	89.75	89.81	90.49	89.96	91.06	90.55	90.08	90.30	90.18	90.63	89.72
7	89.27	89.74	89.79	90.46	89.95	91.00	90.50	90.12	90.25	90.14	90.57	89.70
8	89.26	89.73	89.78	90.44	89.92	90.93	90.46	90.10	-	90.10	90.51	89.69
9	89.29	89.85	89.76	90.40	89.90	90.86	90.43	90.06	-	90.06	90.46	89.68
10	89.25	89.84	89.76	90.36	89.89	90.90	90.40	90.12	-	90.07	90.41	89.65
11	89.24	89.84	89.76	90.37	89.88	90.86	90.36	90.16	90.10	90.02	90.36	89.64
12	89.54	89.82	89.80	90.35	89.87	90.84	90.34	90.42	90.07	89.98	90.31	89.64
13	89.77	89.81	89.79	90.34	89.86	91.07	90.30	91.74	90.03	89.94	90.26	89.62
14	89.88	90.05	89.78	90.30	89.85	91.20	90.26	92.02	90.00	89.91	90.21	89.60
15	89.87	90.11	89.78	90.27	89.85	91.16	90.24	91.97	89.96	89.88	90.17	89.58
16	89.85	90.10	89.88	90.24	89.86	91.11	90.20	91.88	89.93	89.85	90.14	89.68
17	89.82	90.08	89.88	90.20	89.85	91.04	90.19	91.79	89.90	89.85	90.09	89.67
18	89.80	90.05	89.87	90.16	89.85	90.97	90.16	91.68	89.87	89.84	90.06	89.66
19	89.83	90.04	89.86	90.12	89.86	90.95	90.20	91.58	89.85	89.82	90.03	89.65
20	89.87	90.02	89.90	90.10	89.99	90.90	90.18	91.49	89.82	89.79	90.00	89.75
21	89.86	90.00	89.94	90.07	90.28	90.84	90.20	91.40	89.98	89.77	89.98	89.75
22	89.86	89.97	89.95	90.05	91.34	90.77	90.18	91.32	90.02	89.75	89.95	89.72
23	89.85	89.94	89.95	90.12	91.52	90.70	90.18	91.22	90.02	89.74	89.93	89.69
24	89.88	89.90	89.93	90.13	91.48	90.65	90.15	91.12	90.41	89.76	89.92	89.68
25	89.87	89.89	89.91	90.12	91.40	90.60	90.12	91.04	90.44	89.89	89.90	89.68
26	89.87	89.88	89.89	90.10	91.46	90.70	90.10	90.96	90.40	89.98	89.88	89.68
27	89.86	89.87	89.87	90.07	91.50	90.66	90.08	90.89	90.35	90.13	89.86	89.70
28	89.89	89.86	89.86	90.04	91.42	90.64	90.05	90.84	90.30	90.15	89.84	89.70
29	89.89	89.85	89.90	90.03	-----	90.68	90.00	90.75	90.27	90.42	89.80	89.69
30	89.87	89.85	89.89	90.02	-----	90.67	90.21	90.68	90.31	90.71	89.79	89.68
31	89.85	-----	89.96	90.00	-----	90.65	-----	90.62	-----	90.70	89.77	-----
MAX	89.89	90.11	89.96	90.50	91.52	91.32	90.69	92.02	90.56	90.71	90.69	89.76
MIN	89.24	89.73	89.76	89.95	89.85	90.60	90.00	90.06	89.82	89.74	89.77	89.58

RED RIVER BASIN

69

07369500 Tensas River at Tendam, La.

LOCATION.--Lat 32°25'55", long 91°22'00", in NW¼ sec.29, T.17 N., R.11 E., Madison Parish, near left bank on upstream side of bridge on U. S. Highway 80 at Tendam, 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.--35 years (1936-71), 305 cfs (221,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,740 cfs May 13; maximum gage height, 22.60 ft May 14; minimum daily discharge, 10 cfs July 15, 16, 23, 24; minimum gage height, 7.48 ft Apr. 8.

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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	60	61	922	133	1,370	106	42	90	132	50	25
2	45	53	54	1,140	110	1,400	86	43	100	164	60	24
3	37	53	48	1,180	94	1,600	72	30	90	316	65	24
4	30	52	43	1,300	82	1,500	61	20	85	422	70	24
5	24	52	39	1,490	96	1,300	52	20	80	500	80	23
6	20	51	35	1,460	110	1,050	42	25	75	400	90	23
7	17	51	31	1,340	115	900	34	50	70	200	100	23
8	14	45	28	1,220	111	730	30	100	65	100	104	23
9	14	44	24	1,100	104	605	25	50	60	50	113	22
10	12	54	22	1,040	92	557	20	575	55	30	107	22
11	12	68	20	1,090	81	468	20	1,220	60	20	87	22
12	53	73	19	1,070	77	425	20	2,180	70	15	85	22
13	300	78	18	985	82	646	15	2,670	81	12	83	22
14	950	313	17	890	84	1,100	15	2,500	74	11	81	23
15	873	522	18	806	81	1,220	15	2,350	67	10	79	23
16	656	442	36	712	77	880	15	2,180	59	10	77	23
17	484	350	56	623	73	514	15	1,990	53	11	75	23
18	397	282	70	550	69	373	30	1,790	47	13	73	23
19	415	237	75	453	71	370	60	1,570	43	15	71	23
20	522	205	80	378	670	327	100	1,330	42	15	61	24
21	528	182	85	310	1,700	281	240	1,110	60	12	52	25
22	449	164	90	248	2,100	236	464	948	116	11	45	27
23	374	147	90	235	2,100	196	918	828	302	10	41	28
24	384	130	96	340	1,830	162	708	689	500	10	41	28
25	406	118	100	400	1,430	138	379	544	600	15	41	30
26	361	107	90	411	1,580	124	152	394	300	52	36	27
27	292	98	75	390	1,890	115	65	300	150	255	32	24
28	200	87	63	337	1,730	110	22	250	100	168	29	23
29	150	77	73	268	-----	124	11	200	50	74	27	22
30	100	69	145	218	-----	143	21	150	82	64	26	21
31	75	-----	498	175	-----	126	-----	100	-----	60	25	-----
TOTAL	8,250	4,264	2,199	23,081	16,772	19,090	3,813	26,248	3,626	3,177	2,006	716
MEAN	266	142	70.9	745	599	616	127	847	121	102	64.7	23.9
MAX	950	522	498	1,490	2,100	1,600	918	2,670	600	500	113	30
MIN	12	44	17	175	69	110	11	20	42	10	25	21
AC-FT	16,360	8,460	4,360	45,780	33,270	37,870	7,560	52,060	7,190	6,300	3,980	1,420
CAL YR 1970	TOTAL	75,296	MEAN	206	MAX	2,900	MIN	12	AC-FT	149,300		
WTR YR 1971	TOTAL	113,242	MEAN	310	MAX	2,670	MIN	10	AC-FT	224,600		

RED RIVER BASIN

07369700 Bayou Macon near Kilbourne, La.

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 mile east of Kilbourne.

DRAINAGE AREA.--504 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.--Water-stage recorder. Datum of gage is 75.41 ft above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1965, at datum 2.00 ft higher.

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

EXTREMES.--Current year: Maximum gage height, 21.95 ft May 14, from floodmark; minimum daily discharge, 90 cfs July 16.
Period of record: Maximum gage height, 26.35 ft May 5, 1958, 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 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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	139	131									142
2	110	137	131									142
3	107	132	130									159
4	105	130	129									164
5	105	129	127									143
6	102	127	126									135
7	102	126	122									149
8	104	124	122							200		144
9	119	166	121							180		132
10	116		120							170		125
11	114		126							160		116
12		197	161							150		107
13		154	132							130		105
14			122							110		105
15			129				193			100		106
16	181						179			90		106
17	153		174				172			100		105
18			142				167			110		105
19		163	133				164		188	120		105
20		155		194			164			100		112
21		154		178						97		109
22	197	150		173						95	181	104
23	164	150							196	94	160	103
24	174	143								95	160	103
25	170	137							199		168	103
26	153	135							152		168	102
27	149	136							136		165	102
28	170	136							144		151	102
29	188	134			-----				158		127	102
30	173	132			-----				155		132	99
31	145	-----			-----		-----		-----		153	-----
MAX	-	-	-	-	-	-	-	-	-	-	-	164
MIN	102	124	120	173			164		136	90	127	99

RED RIVER BASIN

71

07370000 Bayou Macon near Delhi, La.

LOCATION.--Lat 32°27'25", long 91°28'30", in E $\frac{1}{2}$ 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 nonrecording gage 7.7 miles downstream at datum 45.05 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. Prior to Oct. 1, 1964, at datum 2.00 ft lower.

AVERAGE DISCHARGE.--36 years, 903 cfs (654,200 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 7,150 cfs May 14; maximum gage height, 20.98 ft May 14; minimum discharge, 119 cfs July 17 (gage height, 5.86 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.

Maximum stage known, 37.5 ft in March 1882, from records of U. S. Weather Bureau (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. Records of chemical analyses and water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	294	203	985	1,390	3,100	775	1,490	656	376	978	186
2	199	266	203	859	1,320	2,850	740	1,470	642	562	845	201
3	194	235	203	668	1,210	2,650	880	1,010	517	598	796	194
4	186	224	205	1,410	1,100	2,150	740	682	455	550	740	188
5	177	212	201	2,450	1,010	1,810	598	534	427	465	708	201
6	175	203	201	2,500	943	1,070	495	465	418	376	649	210
7	177	203	192	1,910	852	824	436	775	380	325	592	221
8	172	197	190	1,080	740	694	388	688	342	275	568	224
9	183	235	190	761	662	574	372	580	304	281	544	212
10	179	308	190	768	586	616	353	1,210	281	255	562	201
11	186	353	194	1,070	528	845	332	2,200	318	242	610	186
12	396	418	203	1,060	522	796	308	3,200	368	228	528	181
13	1,010	414	203	817	460	1,550	308	6,250	368	208	490	160
14	1,260	1,130	212	642	422	2,140	297	7,150	360	188	450	147
15	1,140	1,420	224	539	418	1,880	278	7,000	342	158	392	145
16	915	1,200	392	440	392	1,420	269	6,550	318	137	350	158
17	642	873	522	400	380	1,220	260	6,050	297	127	336	155
18	436	604	445	372	360	1,140	255	5,600	266	135	322	153
19	339	422	360	336	512	1,130	250	4,900	238	143	308	155
20	346	360	342	311	1,400	1,280	242	4,100	226	164	297	172
21	427	287	929	297	2,130	1,270	275	3,400	263	181	275	166
22	485	263	2,090	284	4,150	1,120	422	2,900	353	160	266	164
23	418	250	2,260	460	5,050	978	550	2,600	688	139	260	158
24	392	238	2,030	810	4,950	845	490	2,200	436	131	240	151
25	376	217	1,620	838	4,450	768	470	2,150	346	164	230	141
26	328	212	1,230	768	4,250	915	495	1,900	308	197	230	141
27	304	217	915	754	4,450	887	522	1,510	240	422	226	141
28	360	212	675	971	4,100	714	539	1,290	192	992	212	139
29	418	205	568	1,230	-----	714	550	1,110	190	1,250	205	137
30	392	203	550	1,370	-----	971	845	922	235	1,300	197	131
31	342	-----	852	1,420	-----	915	-----	754	-----	1,160	179	-----
TOTAL	12,762	11,875	18,794	28,580	48,737	39,836	13,734	82,640	10,774	11,889	13,585	5,119
MEAN	412	396	606	922	1,741	1,285	458	2,666	359	384	438	171
MAX	1,260	1,420	2,260	2,500	5,050	3,100	880	7,150	688	1,300	978	224
MIN	172	197	190	284	360	574	242	465	190	127	179	131
AC-FT	25,310	23,550	37,280	56,690	96,670	79,010	27,240	163,900	21,370	23,580	26,950	10,150
CAL YR 1970: TOTAL	329,325		MEAN 902	MAX 5,070	MIN 127	AC-FT 653,200						
WTR YR 1971: TOTAL	298,325		MEAN 817	MAX 7,150	MIN 127	AC-FT 591,700						

RED RIVER BASIN

07371500 Dugdemona River near Jonesboro, La.

LOCATION.--Lat 32°12'25", long 92°48'05", in SW¼ 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 (revised).

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, 3,640 cfs May 12 (gage height, 13.45 ft); minimum gage height, 3.50 ft June 12.

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.

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	3.78	6.93	4.59	7.23	5.29	10.44	9.03	4.09	4.37	3.73	6.34	3.86
2	3.77	5.80	4.57	6.81	5.17	10.50	8.63	4.07	4.29	3.73	5.20	3.92
3	3.74	5.19	4.54	6.63	5.07	10.28	7.81	4.09	4.19	3.93	4.86	6.94
4	3.73	4.80	4.52	6.23	5.02	9.62	7.12	4.00	4.10	4.08	6.49	8.44
5	3.72	4.58	4.50	5.94	4.94	8.91	6.72	3.98	4.04	4.20	8.14	6.49
6	3.71	4.45	4.49	5.62	4.94	8.29	6.33	3.97	3.97	4.68	9.03	5.09
7	3.70	4.39	4.48	5.40	4.92	7.71	6.01	7.84	3.96	4.20	9.38	4.55
8	3.73	4.34	4.42	5.43	5.19	7.27	5.76	10.54	3.87	4.04	9.14	4.28
9	3.84	4.31	4.35	5.37	5.28	6.94	5.57	11.46	3.80	4.02	8.72	4.05
10	4.02	4.43	4.34	5.32	5.09	7.62	5.38	11.31	3.58	4.00	7.45	3.90
11	3.87	4.47	4.34	5.49	4.92	8.59	5.29	12.63	3.54	4.13	6.70	3.85
12	4.40	4.43	4.37	5.69	4.91	-	5.19	13.43	3.51	3.89	7.89	3.84
13	6.65	4.89	4.36	5.78	5.20	-	5.08	13.42	3.51	3.74	8.06	3.85
14	7.46	5.30	4.34	5.75	5.36	-	4.95	13.16	3.55	3.66	6.90	3.84
15	6.57	7.42	4.34	5.63	6.21	-	4.86	12.73	3.66	3.62	6.56	3.81
16	5.95	7.94	4.57	5.46	7.49	-	4.78	12.18	3.86	3.61	5.82	3.78
17	5.30	8.32	4.66	5.31	8.16	7.10	4.73	11.60	3.76	3.65	5.10	3.79
18	4.57	7.92	4.57	5.18	8.29	6.55	4.65	10.79	3.72	3.77	4.66	3.78
19	4.27	6.94	4.49	5.06	8.36	6.69	4.66	9.60	3.68	3.77	4.39	3.77
20	4.31	6.21	4.64	4.91	8.47	7.70	4.66	8.37	3.67	3.69	4.19	3.85
21	4.43	5.86	4.72	4.84	8.98	8.21	4.57	8.25	3.75	3.66	4.08	4.07
22	4.28	5.62	4.72	4.82	9.77	8.34	4.49	7.41	3.91	3.76	4.13	4.16
23	4.79	5.44	5.07	4.94	10.29	7.71	4.45	6.33	3.90	3.76	4.00	4.16
24	4.71	5.25	6.06	5.85	10.55	7.04	4.54	5.70	4.06	3.74	4.33	4.21
25	4.61	5.01	5.89	6.27	10.38	6.66	4.50	5.35	3.92	3.78	4.92	4.09
26	4.47	4.82	5.75	6.59	10.02	6.43	4.56	5.07	3.81	4.11	5.20	3.97
27	4.36	4.75	5.51	6.55	10.06	6.28	4.40	4.81	3.77	4.24	5.52	3.94
28	6.88	4.69	5.12	6.49	10.34	6.39	4.29	4.94	3.80	4.56	5.48	3.91
29	8.64	4.62	5.03	6.05	-----	7.34	4.17	5.12	3.81	5.82	4.76	3.85
30	8.50	4.59	5.61	5.64	-----	9.09	4.10	4.73	3.74	6.40	4.26	3.79
31	8.17	-----	6.41	5.42	-----	9.01	-----	4.49	-----	7.15	4.00	-----
MAX	8.64	8.32	6.41	7.23	10.55	10.50	9.03	13.43	4.37	7.15	9.38	8.44
MIN	3.70	4.31	4.34	4.82	4.91	6.28	4.10	3.97	3.51	3.61	4.00	3.77

RED RIVER BASIN

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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.--32 years, 682 cfs (494,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,930 cfs May 13 (gage height, 17.81 ft); minimum, 10 cfs June 18 (gage height, 1.75 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 except those for period of no gage-height record, which are poor. 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 water temperatures for the water year 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	435	64	553	168	1,000	660	38	86	20	158	40
2	16	400	60	528	137	1,100	622	34	73	21	208	51
3	15	350	57	481	115	1,200	597	30	62	21	322	45
4	14	260	55	439	103	1,300	581	27	53	23	250	42
5	13	162	54	399	103	1,100	536	26	47	22	200	130
6	12	100	53	323	101	900	437	25	41	22	150	202
7	12	72	51	260	103	700	311	249	37	26	120	175
8	12	59	49	218	103	500	230	709	33	33	150	102
9	13	67	48	185	100	400	185	1,060	30	42	300	59
10	12	117	47	200	110	300	155	1,410	28	40	400	40
11	14	118	47	282	120	250	133	2,030	26	33	350	30
12	263	97	46	275	120	300	116	3,810	23	28	250	25
13	563	87	45	253	110	400	102	6,810	20	25	200	22
14	548	343	45	239	100	450	92	6,600	16	26	150	18
15	446	485	49	220	110	450	83	5,630	13	25	200	19
16	397	435	53	198	150	450	77	4,540	12	21	250	22
17	323	411	53	176	200	440	72	3,590	11	17	200	19
18	220	381	54	155	250	400	68	2,900	11	14	100	18
19	163	363	59	136	300	380	64	2,330	13	12	80	18
20	148	350	77	118	350	355	61	1,970	17	11	70	19
21	84	330	148	103	500	326	60	1,660	17	11	50	20
22	62	279	150	93	600	325	58	1,370	16	15	40	22
23	54	208	105	87	700	338	57	1,120	17	15	33	31
24	88	153	89	84	800	347	53	837	18	17	28	35
25	94	123	84	105	1,000	345	48	518	21	30	27	33
26	77	105	92	208	1,300	332	45	261	24	32	26	31
27	93	91	117	279	1,200	300	43	160	26	25	27	30
28	281	81	123	286	1,100	257	43	125	30	28	42	29
29	417	74	164	263	-----	299	44	112	26	284	59	27
30	483	68	237	232	-----	502	42	89	22	416	62	24
31	473	-----	492	201	-----	606	-----	89	-----	205	51	-----
TOTAL	5,426	6,604	2,867	7,579	10,153	16,352	5,675	50,159	869	1,560	4,553	1,378
MEAN	175	220	92.5	244	363	527	189	1,618	29.0	50.3	147	45.9
MAX	563	485	492	553	1,300	1,300	660	6,810	86	416	400	202
MIN	12	59	45	84	100	250	42	25	11	11	26	18
AC-FT	10,760	13,100	5,690	15,030	20,140	32,430	11,260	99,490	1,720	3,090	9,030	2,730

CAL YR 1970 TOTAL 100,900.3 MEAN 276 MAX 2,010 MIN 9.4 AC-FT 200,100
WTR YR 1971 TOTAL 113,175.0 MEAN 310 MAX 6,810 MIN 11 AC-FT 224,500

NOTE.--No gage-height record Feb. 9 to Mar. 19.

07372200 Little River near Rochelle, La.

LOCATION.--Lat 31°45'15", long 92°20'40", in SW¼SW¼ 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.--1,880 sq mi.

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.--14 years, 1,696 cfs (12.25 inches per year, 1,229,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 16,600 cfs May 16 (gage height, 34.63 ft); minimum discharge, 23 cfs Oct. 10 (gage height, 5.30 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. Natural flow is supplemented by effluent from operation of several oilfields above station. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	741	165	1,350	479	5,880	2,820	152	461	54	1,370	124
2	28	727	152	1,600	427	6,170	2,590	141	398	122	1,620	159
3	26	671	143	1,640	377	6,530	2,400	127	361	708	1,710	237
4	25	594	133	1,650	365	6,600	2,210	116	326	844	1,610	198
5	25	526	127	1,880	595	6,340	1,900	105	304	699	1,280	164
6	25	464	123	2,020	761	5,830	1,540	97	270	466	943	129
7	25	398	118	1,970	730	5,230	1,230	216	240	336	893	118
8	25	327	111	1,820	657	4,580	972	714	221	304	929	172
9	24	279	106	1,570	547	3,510	760	1,300	207	283	836	205
10	23	238	102	1,260	445	2,560	628	1,720	197	245	787	188
11	26	215	105	1,010	379	1,940	540	2,160	189	204	715	151
12	163	211	196	902	431	1,570	481	3,180	181	163	734	113
13	410	241	316	911	860	1,340	432	4,450	170	130	843	87
14	924	436	347	907	1,090	1,290	395	7,430	160	106	790	69
15	1,350	768	328	860	1,060	1,330	366	14,400	148	88	702	59
16	1,450	1,050	413	785	1,350	1,320	341	16,200	129	76	592	72
17	1,300	1,140	636	694	1,660	1,240	323	14,000	108	66	475	224
18	1,070	1,050	689	607	1,690	1,220	314	11,600	90	59	385	392
19	814	909	604	529	1,590	2,490	299	9,840	76	54	317	350
20	596	758	491	464	1,630	3,120	284	8,560	68	48	261	259
21	462	636	402	411	1,940	3,070	282	7,440	64	44	214	204
22	393	556	359	368	2,540	2,600	286	6,440	63	47	173	186
23	347	500	431	334	3,020	2,080	306	5,370	76	71	144	179
24	371	453	493	322	3,250	1,540	361	4,170	74	73	132	141
25	370	396	459	320	3,390	1,200	356	3,180	67	63	116	107
26	354	334	391	324	3,810	1,570	310	2,440	69	63	93	86
27	387	281	333	346	4,810	1,850	262	1,620	63	122	77	79
28	578	238	291	455	5,500	1,850	219	1,020	57	404	67	75
29	600	205	267	550	-----	2,230	187	792	55	498	62	69
30	624	183	298	565	-----	2,930	165	618	54	636	74	63
31	719	-----	754	528	-----	3,010	-----	511	-----	931	85	-----
TOTAL	13,564	15,525	9,883	28,952	45,383	94,020	23,559	130,109	4,946	8,007	19,029	4,659
MEAN	438	518	319	934	1,621	3,033	785	4,197	165	258	614	155
MAX	1,450	1,140	754	2,020	5,500	6,600	2,820	16,200	461	931	1,710	392
MIN	23	183	102	320	365	1,200	165	97	54	44	62	59
CFSM	.23	.28	.17	.50	.86	1.61	.42	2.23	.09	.14	.33	.08
IN.	.27	.31	.20	.57	.90	1.86	.47	2.57	.10	.16	.38	.09
AC-FT	26,900	30,790	19,600	57,430	90,020	186,500	46,730	258,100	9,810	15,880	37,740	9,240

CAL YR 1970 TOTAL 246,451 MEAN 675 MAX 3,650 MIN 23 CFSM .36 IN 4.88 AC-FT 488,800
WTR YR 1971 TOTAL 397,636 MEAN 1,089 MAX 16,200 MIN 23 CFSM .58 IN 7.87 AC-FT 788,700

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.--29 years, 57.9 cfs (15.42 inches per year, 41,950 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 537 cfs, occurred during period Oct. 9-11 (gage height, 6.42 ft, from recorded range in stage); minimum, 8.2 cfs July 20 (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 water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	11	20	16	37	18	45	40	18	16	11	14	10		
2	11	18	16	28	18	117	52	16	16	12	17	11		
3	10	20	16	25	16	136	40	15	15	12	21	10		
4	9.8	17	16	29	24	62	36	14	15	12	15	9.9		
5	9.8	15	15	31	79	46	32	14	14	16	15	9.6		
6	9.8	15	16	28	60	41	29	16	14	20	19	9.6		
7	10	15	16	25	45	37	28	135	14	13	16	9.0		
8	12	14	16	22	30	34	26	59	15	12	13	9.3		
9	50	26	16	21	27	31	23	36	16	13	16	9.0		
10	150	25	16	35	24	47	20	26	14	14	33	9.9		
11	500	19	20	28	22	39	19	43	12	12	16	11		
12	331	16	27	25	80	35	17	169	11	11	14	12		
13	90	20	23	23	60	33	16	130	12	10	13	11		
14	45	73	18	22	38	30	15	49	11	10	12	9.9		
15	28	36	23	21	34	28	14	34	12	9.9	12	11		
16	21	25	41	21	39	25	14	28	11	9.9	11	39		
17	18	21	27	21	32	24	13	24	21	9.3	11	30		
18	16	20	22	20	29	40	15	21	17	9.0	10	16		
19	16	19	21	20	29	263	15	20	16	8.8	10	36		
20	21	16	21	20	60	63	13	46	17	9.0	10	41		
21	20	16	20	20	46	47	52	40	16	9.9	10	26		
22	16	16	20	20	67	54	38	25	14	10	10	18		
23	16	15	20	19	41	93	30	20	13	13	10	16		
24	16	14	25	19	33	52	26	25	12	12	10	30		
25	54	15	22	19	30	49	24	183	11	13	11	20		
26	41	15	18	19	203	96	23	41	12	12	11	14		
27	25	16	17	19	135	56	23	28	11	13	10	13		
28	20	16	17	19	54	44	22	24	12	54	9.0	12		
29	23	16	18	18	-----	101	20	22	11	22	8.8	12		
30	28	16	36	18	-----	64	19	20	11	25	8.5	11		
31	25	-----	77	18	-----	45	-----	18	-----	17	9.3	-----		
TOTAL	1,653.4	605	692	710	1,372	1,878	754	1,359	411	434.8	405.6	486.2		
MEAN	53.3	20.2	22.3	22.9	49.0	60.6	25.1	43.8	13.7	14.0	13.1	16.2		
MAX	500	73	77	37	203	263	52	183	21	54	33	41		
MIN	9.8	14	15	18	16	24	13	14	11	8.8	8.5	9.0		
CFSM	1.05	.40	.44	.45	.96	1.19	.49	.86	.27	.28	.26	.32		
IN.	1.21	.44	.50	.52	1.00	1.37	.55	.99	.30	.32	.30	.36		
AC-FT	3,280	1,200	1,370	1,410	2,720	3,730	1,500	2,700	815	862	805	964		
(†)	6.86	1.93	2.68	.82	4.09	4.19	1.32	7.34	1.19	3.05	1.85	4.30		
(†)	6.92	2.31	3.42	.92	4.46	5.67	1.33	5.34	1.21	3.40	2.48	6.08		
CAL YR 1970:	TOTAL	10,222.4	MEAN	28.0	MAX	500	MIN	9.0	CFSM	.55	IN.	7.45	AC-FT	20,280
WTR YR 1971:	TOTAL	10,761.0	MEAN	29.5	MAX	500	MIN	8.5	CFSM	.58	IN.	7.85	AC-FT	21,340

PEAK DISCHARGE (BASE, 650 CFS).--No peak above base.

† Precipitation, in inches, during month at rain gage at station. Total for calendar year 1970, 39.37 inches; total for water year 1971, 39.62 inches.

† Precipitation, in inches, during month at rain gage upstream. Total for calendar year 1970, 40.59 inches; total for water year 1971, 43.54 inches.

RED RIVER BASIN

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, 5.43 ft May 15; minimum, 2.40 ft Oct. 11.

Period of record: Maximum gage height, 5.77 ft Apr. 13, 1969; minimum, 1.95 ft Nov. 29, 1967.

REMARKS.--Elevation of dam 60.0 ft above mean sea level. Drawdown structure consist of two 48-inch pipes with stoplog arrangement that can be varied from 47.9 ft (invert of pipes) to 53.0 ft. Capacity not determined.

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	2.56	3.84	--	--	3.72	4.79	5.11	4.81	5.20	4.52	4.26	4.01
2	2.54	3.83	--	--	3.69	4.83	5.12	4.78	5.19	4.64	4.26	4.05
3	2.52	3.80	--	--	3.67	5.05	5.10	4.77	5.17	4.62	4.24	4.08
4	2.51	3.77	--	--	3.66	5.07	5.07	4.73	5.15	4.70	4.23	4.10
5	2.48	3.75	--	--	3.74	5.06	5.06	4.71	5.12	4.68	4.27	4.13
6	2.46	3.74	--	--	3.74	5.03	5.01	4.69	5.10	4.65	4.27	4.13
7	2.45	3.73	--	--	3.73	5.03	4.98	4.90	5.07	4.63	4.24	4.10
8	2.43	3.72	--	--	3.71	5.00	4.96	4.93	5.04	4.60	4.24	4.09
9	2.45	3.77	--	--	3.69	4.96	4.94	4.92	5.02	4.58	4.24	4.07
10	2.42	3.76	--	--	3.68	4.99	4.92	4.92	4.97	4.56	4.25	4.04
11	2.40	3.74	--	--	3.66	4.97	4.91	4.98	4.95	4.54	4.24	4.04
12	3.12	3.73	--	--	3.90	4.95	4.89	5.23	4.93	4.52	4.23	4.04
13	3.48	3.72	--	--	4.00	4.95	4.87	5.39	4.90	4.49	4.21	4.02
14	3.62	3.87	--	--	4.04	4.93	4.86	5.42	4.87	4.46	4.19	4.00
15	3.69	3.87	--	--	4.06	4.92	4.84	5.43	4.83	4.43	4.17	3.99
16	3.72	3.86	--	--	4.08	4.90	4.83	5.42	4.82	4.40	4.15	4.37
17	3.72	3.85	--	--	4.08	4.88	4.82	5.40	4.77	4.37	4.13	4.57
18	3.72	3.84	--	--	4.08	4.85	4.81	5.37	4.75	4.35	4.11	4.60
19	3.79	3.83	--	--	4.08	5.02	4.83	5.35	4.71	4.32	4.09	4.66
20	3.80	--	--	--	4.18	5.02	4.82	5.40	4.67	4.30	4.07	4.84
21	3.80	--	--	3.71	4.19	5.00	4.95	5.38	4.66	4.28	4.06	4.87
22	3.80	--	--	3.71	4.43	4.99	4.97	5.36	4.63	4.25	4.03	4.88
23	3.79	--	--	3.75	4.48	5.01	4.95	5.33	4.71	4.28	4.00	4.88
24	3.82	--	--	3.75	4.50	4.98	4.93	5.30	4.68	4.25	4.12	4.88
25	3.82	--	--	3.76	4.51	4.95	4.91	5.34	4.67	4.25	4.15	4.86
26	3.81	--	--	3.77	4.68	5.02	4.90	5.33	4.65	4.27	4.14	4.84
27	3.80	--	--	3.76	4.77	5.00	4.88	5.30	4.60	4.28	4.12	4.83
28	3.87	--	--	3.75	4.79	4.98	4.87	5.32	4.58	4.35	4.10	4.81
29	3.87	--	--	3.74	----	5.11	4.86	5.28	4.56	4.34	4.07	4.79
30	3.86	--	--	3.74	----	5.14	4.84	5.25	4.53	4.32	4.05	4.78
31	3.85	----	--	3.75	----	5.14	----	5.23	----	4.28	4.02	----
MAX	3.87	3.87	----	3.77	4.79	5.14	5.12	5.43	5.20	4.70	4.27	4.88
MIN	2.40	----	----	----	3.66	4.79	4.81	4.69	4.53	4.25	4.00	3.99

RED RIVER BASIN

77

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, 23.15 ft Mar. 3; minimum, 20.95 ft Oct. 11.

Period of record: Maximum gage height, 23.49 ft Apr. 14, 1969; 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 45.3 ft to 55.3 ft. Invert of pipe 46.0 ft above mean sea level. Area of lake at elevation 50.0 ft is 865 acres.

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	21.08	--	21.94	22.06	22.15	22.96	--	22.45	22.63	22.32	22.03	21.88
2	21.07	--	21.94	22.06	22.12	22.99	--	22.43	22.66	22.34	22.05	22.01
3	21.06	--	21.94	22.06	22.12	23.14	--	22.40	22.64	22.32	22.04	22.14
4	21.04	--	21.93	22.07	22.15	23.14	--	22.38	22.63	22.45	22.04	22.15
5	21.02	--	21.92	22.06	22.21	23.12	--	22.35	22.62	22.43	22.08	22.18
6	21.00	--	21.91	22.05	22.20	23.10	22.81	22.35	22.60	22.41	22.07	22.18
7	20.99	--	21.90	22.02	22.20	23.09	22.77	22.55	22.57	22.40	22.06	22.18
8	20.98	--	21.89	22.06	22.18	23.06	22.75	22.54	22.57	22.38	22.04	22.15
9	21.02	--	21.87	22.06	22.17	23.03	22.72	22.53	22.55	22.36	22.05	22.13
10	20.98	--	21.87	--	22.17	23.05	22.70	22.52	22.53	22.35	22.05	22.12
11	20.96	--	21.87	--	22.16	23.03	22.68	22.59	22.52	22.35	22.07	22.15
12	21.61	--	21.92	--	22.44	23.00	22.66	22.82	22.50	22.31	22.05	22.15
13	21.84	--	21.91	--	22.50	--	22.65	22.91	22.48	22.29	22.04	22.12
14	21.88	--	21.90	--	22.51	--	22.60	22.91	22.46	22.26	22.02	22.11
15	21.90	--	21.90	22.18	22.52	--	22.60	22.90	22.45	22.25	22.00	22.09
16	21.88	--	21.99	22.19	22.53	--	22.58	22.89	22.43	22.21	22.00	22.38
17	21.87	--	21.98	22.19	22.54	--	22.55	22.86	22.40	22.19	21.98	22.53
18	21.87	--	21.98	22.19	22.54	--	22.55	22.84	22.40	22.17	21.96	22.54
19	21.90	--	21.97	22.16	22.55	--	22.56	22.82	22.36	22.15	21.95	22.60
20	21.90	22.04	21.98	22.17	22.63	--	22.55	22.86	22.34	22.11	21.93	22.75
21	21.89	22.03	21.99	22.16	22.63	--	22.68	22.85	22.33	22.10	21.91	22.75
22	21.88	22.02	21.98	22.16	22.85	--	22.67	22.83	22.31	22.07	21.90	22.76
23	21.87	21.99	21.99	22.17	22.85	--	22.65	22.80	22.30	22.06	21.88	22.75
24	21.91	21.97	21.98	22.20	22.85	--	22.61	22.76	22.31	22.05	21.95	22.75
25	21.90	21.96	21.98	22.20	22.84	--	22.58	22.79	22.33	22.05	22.02	22.75
26	21.89	21.96	21.95	22.20	22.90	--	22.56	22.76	22.31	22.05	22.00	22.74
27	--	21.95	21.94	22.19	23.00	--	22.55	22.73	22.30	22.05	21.98	22.73
28	--	21.95	21.94	22.18	22.98	--	22.52	22.74	22.27	22.09	21.95	22.72
29	--	21.95	21.94	22.17	-----	--	22.50	22.70	22.25	22.08	21.93	22.70
30	--	21.94	21.94	22.19	-----	--	22.48	22.67	22.24	22.07	21.91	22.69
31	--	-----	22.06	22.15	-----	--	-----	22.65	-----	22.05	21.89	-----
MAX	-----	-----	22.06	22.20	23.00	23.14	-----	22.91	22.66	22.45	22.08	22.76
MIN	20.96	-----	21.87	22.02	22.12	-----	22.48	22.35	22.24	22.05	21.88	21.88

MISSISSIPPI RIVER DELTA

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.--28 years, 152 cfs (21.61 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,290 cfs Sept. 17 (gage height, 17.62 ft); minimum, 31 cfs Oct. 5, 6 (gage height, 4.80 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	48	48	749	67	159	83	46	54	66	117	48
2	33	46	48	489	63	282	73	46	53	60	135	95
3	32	44	48	201	61	577	72	45	53	75	85	163
4	32	43	48	226	61	547	75	44	52	70	67	159
5	32	42	48	279	96	232	67	44	52	58	60	270
6	32	42	48	235	120	150	63	44	51	53	55	617
7	66	42	47	143	142	160	60	44	52	50	53	358
8	96	42	47	123	269	177	58	45	52	50	51	154
9	72	44	47	133	305	126	57	49	52	49	50	102
10	101	50	47	123	151	139	56	54	54	47	49	81
11	74	55	49	132	112	249	55	50	52	46	48	73
12	62	49	69	135	152	177	55	661	51	46	47	83
13	264	47	139	115	390	127	54	2,170	50	45	47	87
14	570	100	87	103	476	114	53	1,210	49	46	45	68
15	399	157	90	99	209	102	52	505	47	46	44	108
16	118	93	374	101	139	93	51	148	46	45	44	1,370
17	78	67	505	88	118	84	51	104	46	44	44	2,970
18	63	59	352	81	104	78	51	86	46	56	44	1,440
19	57	55	145	76	96	130	51	77	46	60	45	641
20	55	53	111	70	157	269	50	71	46	53	45	284
21	55	51	95	67	177	189	53	67	50	53	45	310
22	51	51	84	66	173	109	58	65	48	71	47	220
23	48	50	77	66	162	93	80	62	47	69	56	133
24	48	49	103	140	121	84	65	61	47	65	55	108
25	51	48	132	354	102	79	55	59	54	65	64	94
26	49	49	119	187	111	74	51	58	52	94	71	84
27	47	49	95	113	245	70	49	57	51	79	52	79
28	54	49	82	91	322	67	49	58	51	68	46	75
29	69	49	93	80	-----	76	48	58	53	79	43	71
30	61	48	266	74	-----	128	47	58	54	113	41	67
31	52	-----	647	71	-----	122	-----	55	-----	106	43	-----
TOTAL	2,854	1,671	4,190	5,010	4,701	5,063	1,742	6,201	1,511	1,927	1,738	10,412
MEAN	92.1	55.7	135	162	168	163	58.1	200	50.4	62.2	56.1	347
MAX	570	157	647	749	476	577	83	2,170	54	113	135	2,970
MIN	32	42	47	66	61	67	47	44	46	44	41	48
CFSM	.96	.58	1.41	1.70	1.76	1.71	.61	2.09	.53	.65	.59	3.63
IN.	1.11	.65	1.63	1.95	1.83	1.97	.68	2.42	.59	.75	.68	4.06
CAL YR 1970	TOTAL 31,801		MEAN 87.1		MAX 892		MIN 32		CFSM .91		IN 12.39	
WTR YR 1971	TOTAL 47,020		MEAN 129		MAX 2,970		MIN 32		CFSM 1.35		IN 18.32	

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-13	0700	16.79	2,430	9-17	0200	17.62	3,290

MISSISSIPPI RIVER DELTA

79

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 mile west of Robert, 2 miles downstream from Chappepeela Creek, and 6 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.--33 years, 1,057 cfs (22.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,500 cfs Sept 17 (gage height, 18.05 ft); minimum daily, 350 cfs Oct. 1-5.
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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	490	390	4,540	576	1,560	881	393	465	1,470	2,200	407
2	350	453	390	3,310	542	2,390	761	386	446	1,350	1,500	664
3	350	422	390	1,780	521	4,110	740	376	431	2,060	1,060	1,030
4	350	402	390	1,760	519	4,270	755	369	414	2,420	758	1,390
5	350	386	390	2,510	667	3,440	692	364	412	1,660	628	2,770
6	400	378	390	2,210	709	2,430	628	364	566	1,090	571	3,300
7	500	371	400	1,390	1,280	1,580	589	357	566	875	558	2,190
8	467	366	410	1,170	1,770	1,340	558	357	490	752	521	1,160
9	700	424	430	1,070	1,870	1,070	537	381	426	690	490	821
10	500	448	450	995	1,200	1,030	521	431	422	645	557	670
11	400	431	500	1,070	923	1,110	503	448	410	612	653	692
12	350	393	558	1,010	1,180	980	498	1,610	438	594	723	1,020
13	5,400	386	803	908	2,090	840	490	3,810	446	584	547	1,020
14	5,520	820	634	848	2,330	750	472	4,860	407	695	462	749
15	4,390	776	772	812	1,520	690	470	4,050	395	642	417	1,760
16	1,970	600	2,380	884	1,170	678	462	1,620	386	571	398	6,000
17	1,080	500	2,710	800	950	634	458	995	386	500	378	15,900
18	802	400	1,820	732	824	599	458	779	431	470	369	15,700
19	648	390	1,040	684	740	1,500	453	664	537	420	364	8,820
20	592	450	824	648	1,360	2,080	446	594	537	409	371	6,720
21	540	410	718	618	1,140	1,440	482	1,180	511	450	378	4,900
22	500	390	653	605	989	1,150	803	2,920	482	480	393	2,850
23	500	390	610	592	872	920	908	1,950	503	610	438	2,300
24	540	390	791	1,160	791	791	597	1,030	506	579	458	1,800
25	600	390	1,090	1,570	743	720	503	791	582	508	584	1,400
26	540	390	953	1,070	828	670	460	678	755	493	573	1,150
27	700	390	761	858	1,890	634	436	620	736	527	472	1,000
28	900	390	670	729	2,280	612	424	586	923	673	431	900
29	660	390	742	663	-----	615	412	553	935	594	410	800
30	579	390	2,100	625	-----	1,030	400	521	883	1,110	412	740
31	547	---	4,020	602	-----	1,170	---	490	---	2,340	419	-----
TOTAL	32,075	13,206	29,179	38,223	32,224	42,833	16,797	34,527	15,827	26,973	18,493	90,623
MEAN	1,035	440	941	1,233	1,151	1,382	560	1,114	528	870	597	3,021
MAX	5,520	820	4,020	4,540	2,330	4,270	908	4,860	935	2,420	2,200	15,900
MIN	350	366	390	592	519	599	400	357	386	390	364	407
CFSM	1.60	.68	1.46	1.91	1.78	2.14	.87	1.72	.82	1.35	.92	4.68
IN.	1.90	.76	1.68	2.20	1.86	2.47	.97	1.99	.91	1.55	1.06	5.22

CAL YR 1970: TOTAL 239,948 MEAN 657 MAX 5,520 MIN 332 CFSM 1.02 IN. 13.81
WTR YR 1971: TOTAL 390,980 MEAN 1,071 MAX 15,900 MIN 350 CFSM 1.66 IN. 22.51

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-14	0600	14.60	5,750	9-17	2000	18.05	18,500
5-14	1900	14.05	5,060				

MISSISSIPPI RIVER DELTA

07376000 Tickfaw River at Holden, La.

LOCATION.--Lat 30°30'13", long 90°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.--31 years, 342 cfs (18.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,780 cfs Sept. 20 (gage height, 12.65 ft); minimum, 68 cfs Aug. 31, Sept. 1, 2 (gage height, 1.34 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 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1711: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	146	90	1,230	159	482	309	110	104	378	205	68
2	84	127	88	1,150	150	590	240	108	100	298	166	69
3	81	116	88	898	143	1,170	206	106	97	231	127	109
4	78	108	88	564	139	1,300	197	104	94	194	107	110
5	77	103	88	704	144	1,100	192	102	92	281	97	218
6	76	100	86	559	185	842	176	101	93	196	91	515
7	78	98	86	472	502	463	161	101	93	146	86	464
8	78	97	86	349	732	409	151	100	102	124	84	279
9	94	105	86	294	810	325	145	100	95	110	81	189
10	89	104	86	273	606	290	139	100	87	100	102	144
11	88	104	86	302	377	321	135	105	85	96	213	125
12	127	103	150	283	403	283	133	142	82	94	171	149
13	897	104	500	252	751	247	129	215	81	92	133	142
14	1,500	154	550	227	965	226	126	246	80	90	104	131
15	1,120	154	450	207	692	210	124	332	79	86	91	143
16	406	171	700	205	432	195	123	270	81	84	84	697
17	243	154	1,000	219	313	181	121	176	78	80	79	1,480
18	180	131	900	202	264	177	121	143	78	80	76	1,660
19	149	117	400	182	232	571	121	126	81	78	74	2,070
20	132	110	280	168	265	715	119	116	96	78	74	2,600
21	141	106	230	159	271	626	138	110	91	80	81	2,630
22	218	105	190	152	258	415	183	156	100	81	77	1,910
23	196	100	166	148	228	284	220	396	130	83	77	890
24	152	98	229	225	204	237	224	377	112	95	74	460
25	131	96	274	562	186	210	172	197	203	89	87	327
26	118	94	291	432	233	192	142	152	219	98	81	271
27	138	92	245	295	576	178	128	132	325	136	79	315
28	301	92	200	237	678	169	122	124	196	143	73	403
29	266	90	201	204	-----	167	118	128	205	163	71	400
30	204	90	441	182	-----	202	114	132	287	133	69	298
31	172	-----	1,050	169	-----	325	-----	112	-----	160	68	-----
TOTAL	7,706	3,369	9,405	11,505	10,898	13,102	4,729	4,919	3,646	4,177	3,082	19,266
MEAN	249	112	303	371	389	423	158	159	122	135	99.4	642
MAX	1,500	171	1,050	1,230	965	1,300	309	396	325	378	213	2,630
MIN	76	90	86	148	139	167	114	100	78	78	68	68
CFSM	1.01	.45	1.23	1.50	1.57	1.71	.64	.64	.49	.55	.40	2.60
IN.	1.16	.51	1.42	1.73	1.64	1.97	.71	.74	.55	.63	.46	2.90

CAL YR 1970 TOTAL 65,885 MEAN 181 MAX 1,500 MIN 74 CFSM .73 IN 9.92
WTR YR 1971 TOTAL 95,804 MEAN 262 MAX 2,630 MIN 68 CFSM 1.06 IN 14.43

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
9-20	2300	12.65	2,780				

MISSISSIPPI RIVER DELTA

81

07376000 Tickfaw River at Holden, La.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.63	2.16	-	7.88	2.28	4.52	3.48	1.82	1.76	3.93	2.68	1.34
2	1.55	1.99	-	7.55	2.20	5.04	2.95	1.80	1.72	3.39	2.34	1.36
3	1.51	1.88	-	6.53	2.13	7.63	2.68	1.78	1.68	2.88	1.99	1.81
4	1.48	1.80	-	4.96	2.10	8.17	2.60	1.76	1.65	2.58	1.79	1.80
5	1.46	1.75	-	5.66	2.14	7.34	2.57	1.74	1.63	3.27	1.69	2.76
6	1.45	1.72	-	4.94	2.50	6.27	2.43	1.73	1.64	2.60	1.62	4.70
7	1.47	1.70	-	4.47	4.61	4.42	2.30	1.73	1.64	2.17	1.57	4.42
8	1.47	1.69	-	3.75	5.79	4.12	2.21	1.72	1.74	1.96	1.54	3.25
9	1.65	1.77	-	3.37	6.15	3.59	2.15	1.72	1.66	1.82	1.51	2.54
10	1.60	1.76	-	3.21	5.17	3.34	2.10	1.72	1.58	-	1.73	2.14
11	1.59	1.76	-	3.43	3.92	3.57	2.07	1.77	1.55	-	2.74	1.97
12	1.97	1.75	-	3.28	4.05	3.28	2.04	2.13	1.53	-	2.38	2.19
13	6.19	1.75	-	3.05	5.87	3.01	2.01	2.75	1.52	-	2.04	2.13
14	8.94	2.24	-	2.85	6.82	2.85	1.98	3.00	1.50	-	1.76	2.02
15	7.36	2.23	-	2.69	5.59	2.71	1.96	3.64	1.49	-	1.62	2.13
16	4.07	2.39	-	2.67	4.24	2.59	1.95	3.18	1.51	-	1.54	5.26
17	2.98	2.24	-	2.79	3.51	2.47	1.93	2.43	1.48	-	1.49	8.87
18	2.47	2.03	-	2.65	3.14	2.44	1.93	2.14	1.48	-	1.45	9.61
19	2.19	1.89	-	2.48	2.89	5.00	1.93	1.98	1.51	-	1.42	10.95
20	2.04	1.82	-	2.36	3.15	5.71	1.91	1.88	1.68	-	1.43	12.28
21	2.12	1.78	-	2.28	3.19	5.27	2.09	1.82	1.63	-	1.52	12.35
22	2.78	1.77	2.43	2.22	3.09	4.14	2.49	2.22	1.72	1.53	1.47	10.39
23	2.60	-	2.35	2.18	2.86	3.29	2.79	4.02	2.02	1.53	1.46	6.46
24	2.22	-	2.87	2.81	2.66	2.93	2.83	3.88	1.84	1.66	1.43	4.40
25	2.02	-	3.21	4.95	2.52	2.72	2.40	2.60	2.65	1.61	1.58	3.61
26	1.90	-	3.35	4.24	2.89	2.57	2.13	2.22	2.77	1.70	1.51	3.19
27	2.07	-	2.99	3.37	5.01	2.45	2.00	2.04	3.59	2.07	1.48	3.52
28	3.41	-	2.63	2.93	5.52	2.37	1.94	1.96	2.59	2.14	1.41	4.07
29	3.15	-	2.65	2.66	-----	2.35	1.90	2.00	2.66	2.32	1.38	4.06
30	2.67	-	4.19	2.48	-----	2.65	1.86	2.04	3.31	2.04	1.36	3.40
31	2.40	-----	7.14	2.38	-----	3.59	-----	1.84	-----	2.28	1.35	-----
MAX	8.94	-----	-----	7.88	6.82	8.17	3.48	4.02	3.59	-----	2.74	12.35
MIN	1.45	-----	-----	2.18	2.10	2.35	1.86	1.72	1.48	-----	1.35	1.34

MISSISSIPPI RIVER DELTA

07376500 Natchitoches River at Baptist, La.

LOCATION.--Lat 30°30'15", long 90°32'45", in NE1/4 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.--28 years, 106 cfs (18.11 inches per year).

EXTREMES.--Current year: Maximum discharge, about 1,800 cfs Sept. 16 (gage height, unknown); minimum, 6.7 cfs July 20; minimum gage height, 3.34 ft Oct. 5, 6.
Period of record: Maximum discharge, 9,550 cfs May 3, 1953 (gage height, 19.73 ft); minimum, 1.8 cfs Nov. 2-9, 1963; minimum gage height, 3.04 ft Oct. 3, 4, 1969.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	23	9.1	380	20	110	54	12	14	91	21	25
2	11	20	9.1	183	18	588	51	12	14	52	15	80
3	9.6	18	9.1	102	16	577	34	12	13	97	12	20
4	8.5	16	9.4	460	25	318	30	11	13	155	15	90
5	8.2	15	8.8	535	48	164	26	11	13	68	15	400
6	8.2	15	8.5	245	30	109	24	12	15	24	13	200
7	19	14	8.3	116	678	112	24	12	13	16	11	100
8	11	14	8.5	103	482	124	20	11	15	13	9.7	62
9	171	67	8.8	91	227	79	19	11	14	12	9.4	50
10	25	24	16	86	116	153	18	11	13	11	9.1	35
11	15	17	308	160	70	174	17	14	15	10	8.5	70
12	173	15	120	102	449	99	17	517	14	10	39	150
13	1,110	34	49	67	554	69	16	187	13	9.4	29	90
14	1,450	227	443	50	233	57	15	59	13	16	14	40
15	657	56	609	41	121	47	15	33	13	13	11	30
16	194	27	200	90	81	43	14	24	13	10	9.1	1,600
17	81	20	100	53	61	43	14	20	13	8.2	8.0	700
18	52	17	170	37	50	38	14	18	12	7.8	7.8	350
19	38	15	90	30	43	33	14	17	12	7.0	7.0	160
20	33	14	54	25	282	30	13	16	41	8.8	7.0	130
21	30	13	40	22	150	727	36	15	26	14	6.8	350
22	26	12	32	20	100	278	70	15	18	11	9.1	170
23	24	11	33	19	66	114	27	15	14	11	13	100
24	26	11	199	275	49	65	17	15	99	12	24	60
25	24	11	131	162	38	47	14	14	38	17	62	50
26	22	11	81	82	250	37	14	14	88	14	21	44
27	25	10	48	50	428	31	13	14	100	61	11	37
28	159	10	36	36	206	28	13	15	53	55	8.5	32
29	84	9.7	144	28	-----	25	13	15	20	212	7.2	28
30	43	9.4	492	25	-----	23	12	14	96	155	7.0	26
31	28	-----	664	22	-----	24	-----	14	-----	45	7.0	-----
TOTAL	4,578.5	776.1	4,138.6	3,697	4,891	4,366	678	1,180	848	1,246.2	447.2	5,279
MEAN	148	25.9	134	119	175	141	22.6	38.1	28.3	40.2	14.4	176
MAX	1,450	227	664	535	678	727	70	517	100	212	62	1,600
MIN	8.2	9.4	8.3	19	16	23	12	11	12	7.0	6.8	20
CFSM	1.86	.33	1.69	1.50	2.20	1.77	.28	.48	.36	.51	.18	2.21
IN.	2.14	.36	1.94	1.73	2.29	2.04	.32	.55	.40	.58	.21	2.47
CAL YR 1970	TOTAL 21,441.5	MEAN 58.7	MAX 1,520	MIN 5.7	CFSM .74	IN 10.03						
WTR YR 1971	TOTAL 32,125.6	MEAN 88.0	MAX 1,600	MIN 6.8	CFSM 1.11	IN 15.03						

PEAK DISCHARGE (BASE, 1,500 CFS)

NOTE.--No gage-height record Aug. 31 to Sept. 30.

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-14	0445	12.12	1,640	9-16	Unknown	Unknown	About 1,800

MISSISSIPPI RIVER DELTA

83

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.--21 years, 784 cfs (18.36 inches per year).

EXTREMES.--Maximum discharge during year, 10,100 cfs Sept. 18 (gage height, 14.44 ft); minimum, 196 cfs Oct. 5, 6, 7; minimum gage height, 2.31 ft Aug. 30, 31, and Sept. 1
Period of record: Maximum discharge, 55,700 cfs Apr. 13, 1955 (gage height, 18.18 ft, site and datum then in use); minimum discharge, 188 cfs Oct. 18, 1956.

REMARKS.--Records good. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	350	240	3,010	355	1,970	634	266	335	320	1,470	234
2	203	300	238	1,590	342	2,400	557	264	318	862	778	238
3	202	268	238	926	335	3,690	602	260	305	1,410	546	240
4	199	252	238	946	338	3,790	557	258	292	1,250	420	246
5	197	244	236	994	532	3,520	471	256	613	666	417	270
6	196	238	234	760	795	1,490	417	256	459	405	468	308
7	197	236	232	592	834	1,090	378	262	338	335	447	288
8	201	234	230	536	1,330	922	358	298	295	310	358	256
9	205	240	230	540	1,190	764	348	310	286	290	816	246
10	201	242	232	529	870	686	335	540	272	278	750	242
11	199	236	236	508	634	690	328	498	266	272	453	268
12	397	232	266	480	906	624	320	1,180	262	270	348	262
13	1,380	232	266	453	2,870	574	310	2,930	264	262	305	264
14	1,720	630	248	432	2,240	540	305	3,140	254	258	284	248
15	846	1,240	270	426	1,190	504	300	1,770	248	254	272	250
16	451	878	899	411	812	474	295	767	244	248	264	1,040
17	310	479	1,380	388	622	441	290	543	240	244	258	6,960
18	264	350	1,030	378	560	423	292	432	238	244	254	9,110
19	391	308	602	362	498	1,040	292	372	244	266	252	5,530
20	560	288	477	350	465	1,700	342	630	256	242	248	2,220
21	560	285	417	342	447	1,700	322	3,380	266	252	246	1,500
22	394	270	388	340	536	906	568	3,930	250	385	244	1,040
23	300	260	375	453	886	641	382	1,190	270	315	242	792
24	268	254	518	1,030	784	546	328	704	325	266	270	624
25	254	250	501	714	557	487	298	746	396	260	315	508
26	244	248	408	532	958	441	286	1,540	328	266	315	487
27	248	248	372	450	3,470	414	282	711	330	335	270	1,000
28	594	246	358	405	3,540	393	278	571	426	417	250	930
29	672	244	725	382	-----	680	274	484	350	714	240	627
30	507	242	2,210	372	-----	1,130	270	402	282	620	236	465
31	421	-----	3,590	362	-----	886	-----	362	-----	683	234	-----
TOTAL	12,986	10,024	17,884	19,993	28,896	35,556	11,019	29,252	9,252	13,199	12,270	36,693
MEAN	419	334	577	645	1,032	1,147	367	944	308	426	396	1,223
MAX	1,720	1,240	3,590	3,010	3,540	3,790	634	3,930	613	1,410	1,470	9,110
MIN	196	232	230	340	335	393	270	256	238	242	234	234
CFSM	.72	.58	.99	1.11	1.78	1.98	.63	1.63	.53	.73	.68	2.11
IN.	.83	.64	1.15	1.28	1.85	2.28	.71	1.88	.59	.85	.79	2.35
CAL YR 1970	TOTAL 151,588	MEAN 415	MAX 3,590	MIN 196	CFSM .72	IN 9.72						
WTR YR 1971	TOTAL 237,024	MEAN 649	MAX 9,110	MIN 196	CFSM 1.12	IN 15.20						

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
9-18	1000	14.44	10,100				

MISSISSIPPI RIVER DELTA

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.--29 years, 218 cfs (20.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,430 cfs Sept. 18 (gage height, 9.38 ft); minimum, 36 cfs Aug. 28 to Sept. 1; (gage height, 1.33 ft).

Period of record: Maximum discharge, 19,900 cfs Mar. 18, 1961 (gage height, 21.37 ft); minimum, 31 cfs Sept. 9, 1965, Nov. 4, 5, 1968; minimum gage height, 1.33 ft Aug. 28 to Sept. 1, 1971.

REMARKS.--Records good. Records of water temperatures for the water year 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	73	55	256	70	423	104	47	51	450	63	37
2	40	67	55	193	66	994	102	46	48	500	46	38
3	40	64	54	288	65	864	133	46	45	150	44	38
4	39	62	52	209	65	920	85	45	44	90	44	37
5	40	60	52	155	174	279	71	44	44	74	51	40
6	40	60	52	124	217	188	65	44	58	64	48	58
7	40	59	54	112	294	211	63	45	49	56	49	45
8	40	57	55	114	654	171	63	48	43	50	69	40
9	42	62	55	140	327	131	62	54	43	48	612	38
10	42	68	59	135	183	135	60	46	43	45	309	37
11	43	62	57	129	110	151	59	52	42	54	65	38
12	323	59	60	120	532	122	57	160	42	47	61	40
13	747	59	57	110	967	106	56	357	42	43	50	42
14	781	356	55	100	434	98	56	106	42	40	43	38
15	184	454	78	104	188	92	55	61	42	39	40	38
16	78	101	259	142	149	86	54	51	42	38	39	1,030
17	64	73	132	112	120	80	54	47	42	38	38	2,460
18	59	64	74	98	100	81	54	47	42	38	38	2,960
19	96	62	64	88	92	1,160	53	47	42	38	38	724
20	105	60	60	81	91	703	52	46	48	38	37	912
21	74	60	58	77	91	206	53	50	46	46	37	388
22	63	60	57	76	116	146	77	56	43	39	38	171
23	59	57	83	193	178	120	81	46	41	91	40	138
24	58	56	102	605	108	106	56	45	50	75	50	108
25	57	56	72	267	90	94	54	44	90	46	40	96
26	56	56	62	151	402	85	52	102	70	56	38	348
27	223	56	60	116	1,070	77	51	616	100	85	37	339
28	1,130	57	228	81	647	71	51	654	80	51	36	131
29	338	56	1,240	80	-----	151	49	112	76	138	36	104
30	146	55	1,480	75	-----	455	48	62	150	142	36	86
31	94	-----	752	72	-----	166	-----	53	-----	209	36	-----
TOTAL	5,181	2,551	5,633	4,603	7,600	8,672	1,930	3,279	1,640	2,918	2,208	10,599
MEAN	167	85.0	182	148	271	280	64.3	106	54.7	94.1	71.2	353
MAX	1,130	454	1,480	605	1,070	1,160	133	654	150	500	612	2,960
MIN	39	55	52	72	65	71	48	44	41	38	36	37
CFSM	1.15	.59	1.26	1.02	1.87	1.93	.44	.73	.38	.65	.49	2.43
IN.	1.33	.65	1.45	1.18	1.95	2.22	.50	.84	.42	.75	.57	2.72
CAL YR 1970	TOTAL 36,733	MEAN 101	MAX 1,480	MIN 33	CFSM .70	IN 9.42						
WTR YR 1971	TOTAL 56,814	MEAN 156	MAX 2,960	MIN 36	CFSM 1.08	IN 14.58						

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
9-18	0600	9.38	3,430				

MISSISSIPPI RIVER DELTA

85

07378000 Comite River near Comite, La.

LOCATION.--Lat 30°30'45", long 91°04'25", in NW $\frac{1}{4}$ 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.--27 years, 432 cfs (20.66 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,310 cfs Sept. 17 (gage height, 12.29 ft); minimum, 45 cfs Oct. 5; minimum gage height, 2.40 ft June 17.

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 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1920: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	165	58	1,630	107	497	183	63	91	428	173	55
2	48	118	58	485	100	3,130	138	62	74	1,120	98	58
3	47	89	58	275	95	1,490	153	60	67	383	74	62
4	46	71	57	470	130	1,250	155	59	59	253	63	113
5	45	62	56	461	356	575	113	59	58	188	63	69
6	46	58	56	248	329	293	98	59	56	100	76	71
7	46	54	55	185	920	260	91	59	71	67	71	111
8	46	52	54	170	1,250	263	89	59	58	59	69	85
9	94	51	54	188	718	198	89	65	54	56	518	63
10	53	60	56	200	338	218	87	65	52	55	536	71
11	48	65	170	185	223	230	85	76	52	67	238	111
12	1,220	56	455	175	1,700	210	82	205	51	57	127	125
13	2,410	57	140	158	2,780	168	80	326	50	58	150	67
14	1,520	293	89	140	1,010	145	80	293	50	52	95	62
15	638	726	512	125	362	132	78	143	49	63	74	178
16	235	317	1,200	143	240	121	78	98	49	50	62	2,650
17	145	163	530	178	188	109	78	78	48	50	58	5,730
18	111	118	255	145	158	153	78	67	48	50	56	4,490
19	205	95	168	127	143	3,730	76	65	48	49	56	2,050
20	362	82	127	118	143	2,430	74	60	50	53	58	1,850
21	200	71	109	111	153	482	78	58	55	85	71	1,050
22	127	69	98	104	160	266	95	69	58	67	107	560
23	95	65	314	109	220	188	116	69	53	109	69	245
24	93	62	1,430	762	198	150	100	59	49	180	58	156
25	85	60	482	542	140	125	80	58	104	153	57	111
26	76	60	269	269	710	104	74	58	100	185	56	422
27	806	59	175	193	1,860	93	69	123	74	458	54	2,500
28	5,450	58	135	155	1,150	87	67	1,380	121	245	52	527
29	2,080	58	416	138	-----	238	65	786	130	470	52	228
30	476	58	2,250	123	-----	476	63	223	125	240	52	150
31	260	-----	3,440	113	-----	377	-----	125	-----	218	52	-----
TOTAL	17,163	3,372	13,326	8,425	15,881	18,188	2,792	5,029	2,004	5,668	3,395	24,020
MEAN	554	112	430	272	567	587	93.1	162	66.8	183	110	801
MAX	5,450	726	3,440	1,630	2,780	3,730	183	1,380	130	1,120	536	5,730
MIN	45	51	54	104	95	87	63	58	48	49	52	55
CFSM	1.95	.39	1.51	.96	2.00	2.07	.33	.57	.24	.64	.39	2.82
IN.	2.25	.44	1.75	1.10	2.08	2.38	.37	.66	.26	.74	.44	3.15

CAL YR 1970 TOTAL 85,799 MEAN 235 MAX 5,450 MIN 45 CFSM .83 IN. 11.24
WTR YR 1971 TOTAL 119,263 MEAN 327 MAX 5,730 MIN 45 CFSM 1.15 IN. 15.62

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-28	0930	11.14	6,040	9-27	0945	12.29	7,310

MISSISSIPPI RIVER DELTA

07378000 Comite River near Comite, La.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.68	3.12	2.63	6.59	2.88	4.24	3.19	2.68	2.80	3.84	3.14	2.60
2	2.64	2.92	2.63	4.22	2.85	8.42	3.00	2.67	2.73	5.62	2.84	2.63
3	2.62	2.79	2.63	3.55	2.83	6.41	3.07	2.66	2.69	3.91	2.73	2.65
4	2.61	2.72	2.62	4.14	2.92	6.03	3.08	2.65	2.65	3.46	2.68	2.88
5	2.58	2.67	2.61	4.14	3.82	4.53	2.91	2.65	2.63	3.20	2.68	2.70
6	2.60	2.63	2.61	3.44	3.73	3.61	2.84	2.65	2.61	2.84	2.74	2.72
7	2.61	2.59	2.60	3.20	5.33	3.50	2.81	2.65	2.71	2.70	2.72	2.90
8	2.60	2.56	2.59	3.14	6.03	3.50	2.80	2.65	2.63	2.65	2.71	2.78
9	3.06	2.55	2.59	3.21	4.90	3.25	2.80	2.68	2.59	2.61	4.20	2.68
10	2.73	2.66	2.61	3.26	3.76	3.32	2.79	2.69	2.57	2.60	4.42	2.71
11	2.65	2.68	2.88	3.20	3.35	3.38	2.78	2.73	2.56	2.69	3.39	2.88
12	5.33	2.61	4.06	3.16	6.14	3.29	2.77	3.27	2.55	2.62	2.97	2.93
13	7.70	2.60	3.01	3.09	8.07	3.13	2.76	3.71	2.54	2.63	3.05	2.70
14	6.48	3.57	2.79	3.02	5.50	3.04	2.76	3.59	2.53	2.57	2.83	2.67
15	4.70	4.94	3.98	2.96	3.84	2.99	2.75	3.02	2.52	2.55	2.73	2.98
16	3.39	3.67	5.92	3.03	3.42	2.94	2.75	2.84	2.52	2.54	2.67	7.24
17	3.03	3.11	4.38	3.17	3.21	2.88	2.75	2.75	2.51	2.54	2.64	11.94
18	2.89	2.93	3.47	3.04	3.09	2.97	2.75	2.70	2.51	2.53	2.61	11.20
19	3.25	2.82	3.13	2.97	3.03	9.02	2.74	2.69	2.51	2.52	2.61	7.53
20	3.84	2.77	2.97	2.93	3.03	7.54	2.73	2.66	2.53	2.57	2.62	6.99
21	3.25	2.72	2.89	2.90	3.07	4.21	2.75	2.64	2.59	2.78	2.71	5.61
22	2.96	2.71	2.84	2.87	3.10	3.51	2.82	2.69	2.63	2.68	2.87	4.47
23	2.83	2.69	3.35	2.88	3.33	3.21	2.90	2.70	2.58	2.74	2.70	3.43
24	2.82	2.67	6.27	4.95	3.25	3.06	2.85	2.65	2.52	3.17	2.63	3.09
25	2.78	2.66	4.22	4.42	3.02	2.96	2.76	2.63	2.79	3.05	2.62	2.90
26	2.74	2.66	3.52	3.52	4.64	2.87	2.73	2.63	2.84	3.03	2.61	3.59
27	4.19	2.65	3.16	3.22	6.99	2.82	2.71	2.88	2.72	4.14	2.59	7.68
28	10.60	2.64	3.00	3.08	5.81	2.79	2.70	6.02	2.92	3.42	2.57	4.34
29	7.06	2.63	3.85	3.01	-----	3.35	2.69	4.93	2.97	4.16	2.56	3.36
30	4.20	2.63	7.40	2.95	-----	4.20	2.68	3.33	2.95	3.39	2.56	3.01
31	3.49	-----	8.77	2.91	-----	3.86	-----	2.96	-----	3.29	2.57	-----
MAX	10.60	4.94	8.77	6.59	8.07	9.02	3.19	6.02	2.97	5.62	4.42	11.94
MIN	2.58	2.55	2.59	2.87	2.83	2.79	2.68	2.63	2.51	2.52	2.56	2.60

MISSISSIPPI RIVER DELTA

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07378500 Amite River near Denham Springs, La.

LOCATION.--Lat 30°27'50", long 90°59'25", in lot 2, T.7S., 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.

DRAINAGE AREA.--1,280 sq mi.

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.

AVERAGE DISCHARGE.--33 years, 1,812 cfs (19.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,600 cfs Sept. 20 (gage height, 21.90 ft); minimum, 355 cfs Oct. 6, 8 (gage height, 5.78 ft).
Period of record: Maximum discharge, 67,000 cfs May 20, 1953; maximum gage height, 32.46 ft May 20, 1953; 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.

REMARKS.--Records good. Records of chemical analyses and water temperatures for the water year 1971 are published in Part 2 of this report. Since 1957, entire flow from 46 sq mi diverted from basin.

REVISIONS.--WSP 1920: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	443	962	453	7,770	653	5,170	1,570	493	747	996	1,010	386
2	403	791	448	6,150	621	6,300	1,250	484	661	2,960	1,330	421
3	380	683	443	3,440	598	7,850	1,060	475	612	1,490	1,260	391
4	368	608	438	2,470	594	8,020	1,080	465	576	1,890	829	429
5	360	560	435	2,880	1,330	8,540	1,010	461	550	1,900	727	478
6	358	527	438	2,360	1,420	7,900	890	458	649	1,210	646	663
7	363	509	425	1,620	3,260	3,750	804	458	738	815	645	684
8	358	497	420	1,290	4,140	2,500	749	460	641	663	684	600
9	602	575	418	1,170	3,880	1,960	708	470	560	581	947	494
10	445	545	418	1,150	2,510	1,700	680	511	522	544	1,590	452
11	378	527	460	1,150	1,690	1,660	659	628	508	531	1,420	479
12	1,390	500	1,800	1,070	2,700	1,480	639	1,100	480	497	885	695
13	4,080	488	816	1,000	5,910	1,320	620	1,400	466	474	730	468
14	4,300	930	599	926	6,410	1,190	605	3,040	455	448	604	429
15	3,410	1,350	1,170	861	4,690	1,100	592	3,490	443	432	532	467
16	1,770	1,700	3,780	830	2,550	1,000	582	2,660	434	424	486	2,990
17	1,020	1,300	2,880	865	1,690	928	575	1,320	426	421	468	7,660
18	749	926	2,070	809	1,350	891	574	938	416	416	450	10,900
19	735	728	1,580	739	1,160	5,560	566	783	415	405	435	12,400
20	1,060	638	1,090	690	1,070	6,430	556	690	431	420	422	10,400
21	1,210	584	851	659	1,060	4,010	581	674	455	521	425	6,940
22	958	557	732	638	1,030	2,880	671	2,710	466	468	437	4,340
23	777	536	725	629	1,030	1,900	747	4,090	461	507	442	2,160
24	679	506	3,370	1,290	1,270	1,390	761	2,160	435	756	403	1,660
25	584	491	2,080	2,500	1,240	1,190	624	1,160	576	742	430	1,390
26	524	483	1,270	1,610	2,140	1,060	578	952	690	526	448	1,280
27	1,210	475	907	1,150	3,870	960	549	2,030	830	998	465	3,540
28	6,560	470	749	930	5,330	893	533	2,800	611	1,030	433	2,620
29	5,630	465	982	816	-----	1,390	522	3,190	646	1,530	403	1,770
30	2,550	460	3,340	742	-----	1,600	507	1,430	719	1,270	384	1,340
31	1,270	-----	6,900	693	-----	2,140	-----	912	-----	964	379	-----
TOTAL	44,924	20,371	42,487	50,897	65,196	94,662	21,842	42,892	16,619	26,829	20,749	78,926
MEAN	1,449	679	1,371	1,642	2,328	3,054	728	1,384	554	865	669	2,631
MAX	6,560	1,700	6,900	7,770	6,410	8,540	1,570	4,090	830	2,960	1,590	12,400
MIN	358	460	418	629	594	891	507	458	415	405	379	386
CFSM	1.13	.53	1.07	1.28	1.82	2.39	.57	1.08	.43	.68	.52	2.06
IN.	1.31	.59	1.23	1.48	1.89	2.75	.63	1.25	.48	.78	.60	2.29
CAL YR 1970	TOTAL	366,106	MEAN	1,003	MAX	6,900	MIN	350	CFSM	.78	IN	10.64
WTR YR 1971	TOTAL	526,394	MEAN	1,442	MAX	12,400	MIN	358	CFSM	1.13	IN	15.30

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
9-20	0145	21.90	12,600				

MISSISSIPPI RIVER DELTA

07380400 Bayou Lafourche at Donaldsonville, La.

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 up-stream 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.--14 years, 268 cfs (194,200 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 542 cfs Apr. 10, 1967; no flow June 11, 14, 1959, Feb. 23, 24-27, 28, 1970, Mar. 3, Apr. 2, 3, May 14, 1971.

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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	476	217	236	284	232	197	165	321	138	235	101	235
2	478	220	220	298	233	89	117	205	220	237	108	244
3	482	220	232	304	233	102	94	203	226	219	136	260
4	491	220	233	303	236	214	97	204	226	211	138	345
5	388	220	233	241	159	206	66	193	226	208	254	365
6	259	219	216	189	176	109	102	202	226	206	273	363
7	195	219	230	199	214	90	255	204	226	208	110	314
8	173	220	230	149	113	62	492	204	222	209	88	291
9	216	226	228	184	95	70	516	207	220	209	88	315
10	220	224	226	182	94	114	339	208	220	210	108	359
11	220	224	220	177	93	186	140	195	223	210	152	197
12	223	225	219	164	113	266	108	191	222	210	161	236
13	232	229	220	154	114	273	78	96	223	207	171	292
14	244	236	201	148	108	285	85	66	222	175	173	307
15	225	231	243	141	105	298	141	74	220	109	177	332
16	214	230	249	136	105	297	191	96	219	135	139	258
17	176	230	243	131	109	297	213	192	212	180	169	200
18	200	229	237	126	129	285	225	200	215	152	169	115
19	201	231	230	126	151	298	225	210	218	122	120	124
20	201	232	228	132	162	284	225	179	221	131	162	95
21	178	232	228	250	168	270	225	156	219	196	164	193
22	201	233	224	359	176	251	225	244	217	191	165	301
23	204	233	223	377	183	238	223	184	215	113	163	304
24	211	232	236	382	190	229	119	136	214	116	159	284
25	210	231	236	341	189	215	85	72	217	125	199	332
26	210	230	238	263	215	206	80	84	224	126	202	367
27	296	229	238	249	261	197	76	129	239	117	204	364
28	332	230	241	211	265	183	72	160	236	104	205	320
29	242	230	245	233	-----	137	124	236	227	108	207	341
30	233	231	265	231	-----	71	414	253	226	102	209	310
31	223	-----	274	232	-----	201	-----	181	-----	119	220	-----
TOTAL	8,054	6,813	7,223	6,896	4,621	6,220	5,517	5,485	6,579	5,200	5,094	8,363
MEAN	260	227	233	222	165	201	184	177	219	168	164	279
MAX	491	236	274	382	265	298	516	321	239	237	273	367
MIN	173	217	201	126	93	62	66	66	138	102	88	95
AC-FT	15,980	13,510	14,330	13,680	9,170	12,340	10,940	10,880	13,050	10,310	10,100	16,590
CAL YR 1970	TOTAL	88,665.30	MEAN	243	MAX	491	MIN	0	AC-FT	175,900		
WTR YR 1971	TOTAL	76,065.00	MEAN	208	MAX	516	MIN	62	AC-FT	150,900		

MISSISSIPPI RIVER DELTA

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07380400 Bayou Lafourche at Donaldsonville, La.--Continued

ELEVATION, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.78	6.82	7.04	7.54	6.99	6.55	6.19	7.86	5.85	7.02	5.38	7.03
2	8.79	6.85	6.84	7.67	7.00	5.22	5.59	6.69	6.85	7.04	5.46	7.13
3	8.81	6.86	6.99	7.72	7.00	5.38	5.28	6.66	6.92	6.84	5.81	7.20
4	8.86	6.85	7.00	7.71	7.04	6.79	5.32	6.67	6.92	6.75	5.85	7.98
5	8.29	6.85	7.00	7.06	6.11	6.70	4.90	6.54	6.92	6.72	6.99	8.14
6	7.29	6.84	6.80	6.48	6.33	5.48	5.38	6.65	6.92	6.70	7.19	8.13
7	6.52	6.84	6.97	6.61	6.79	5.22	6.87	6.67	6.92	6.72	5.48	7.68
8	6.26	6.85	6.96	5.98	5.53	4.85	8.87	6.68	6.88	6.73	5.19	7.45
9	6.80	6.92	6.95	6.42	5.29	4.96	9.00	6.71	6.85	6.74	5.20	7.69
10	6.86	6.90	6.92	6.40	5.28	5.55	7.98	6.72	6.86	6.74	5.46	8.10
11	6.85	6.91	6.86	6.33	5.27	6.45	5.87	6.56	6.89	6.74	6.02	6.48
12	6.89	6.91	6.85	6.17	5.53	7.36	5.47	6.51	6.88	6.74	6.14	6.88
13	6.94	6.96	6.86	6.05	5.54	7.43	5.06	5.31	6.89	6.71	6.26	7.50
14	7.12	7.03	6.64	5.98	5.46	7.55	5.17	4.90	6.87	6.31	6.29	7.64
15	6.91	6.98	7.11	5.88	5.43	7.67	5.88	5.01	6.86	5.48	6.34	7.86
16	6.79	6.97	7.18	5.82	5.43	7.66	6.51	5.31	6.85	5.81	5.85	7.25
17	6.31	6.97	7.11	5.76	5.48	7.66	6.76	6.53	6.77	6.37	6.24	6.61
18	6.63	6.96	7.04	5.70	5.73	7.55	7.82	6.63	6.80	6.02	6.24	5.55
19	6.64	6.97	6.97	5.70	6.01	7.67	7.86	6.74	6.83	5.64	5.60	5.66
20	6.64	6.99	6.94	5.77	6.15	7.54	7.85	6.36	6.87	5.76	6.15	5.29
21	6.34	6.99	6.94	7.05	6.23	7.40	7.83	6.07	6.84	6.50	6.17	6.43
22	6.64	7.00	6.90	8.11	6.33	7.20	7.93	7.12	6.82	6.51	6.18	7.58
23	6.68	7.00	6.89	8.22	6.41	7.06	6.77	6.43	6.80	5.53	6.16	7.61
24	6.76	6.99	7.03	8.25	6.49	6.96	5.59	5.82	6.78	5.57	6.11	7.41
25	6.75	6.98	7.04	7.96	6.49	6.80	5.16	4.98	6.83	5.68	6.62	7.87
26	6.75	6.96	7.05	7.33	6.79	6.70	5.09	5.15	6.90	5.69	6.66	8.15
27	7.65	6.96	7.07	7.18	7.31	6.58	5.03	5.74	7.06	5.58	6.67	8.13
28	7.93	6.97	7.09	6.73	7.35	6.41	4.99	6.13	7.03	5.41	6.69	7.75
29	7.10	6.97	7.13	7.00	-----	5.82	5.54	7.03	6.93	5.45	6.71	7.94
30	7.00	6.98	7.34	6.98	-----	4.97	8.43	7.22	6.92	5.39	6.73	7.66
31	6.89	-----	7.44	6.99	-----	6.62	-----	6.39	-----	5.61	6.86	-----
MAX	8.86	7.03	7.44	8.25	7.35	7.67	9.00	7.86	7.06	7.04	7.19	8.15
MIN	6.26	6.82	6.64	5.70	5.27	4.85	4.90	4.90	5.85	5.39	5.19	5.29

MISSISSIPPI RIVER DELTA

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 Thibodaux, 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, 6.40 ft Sept. 16; minimum, 2.95 ft Apr. 6.

Period of record: Maximum elevation, 6.74 ft May 21, 1966; 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, 1969. Records of suspended-sediment loads for the water year 1971 are published in Part 2 of this report.

ELEVATION, 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	5.57	4.98	5.12	5.40	5.25	5.00	3.65	4.21	5.05	5.28	4.91	5.46
2	5.57	5.01	5.10	5.41	5.25	4.82	3.38	4.73	4.98	5.36	4.77	5.62
3	5.63	4.94	4.98	5.43	5.26	4.54	3.06	4.64	5.17	5.27	4.68	5.35
4	5.66	4.95	4.99	5.51	5.27	4.22	3.10	4.56	5.24	5.22	4.82	5.06
5	5.67	4.96	5.00	5.44	5.29	4.45	3.15	4.55	5.24	5.19	5.48	5.01
6	5.45	4.96	5.05	5.32	4.73	4.63	3.03	4.50	5.29	5.16	5.23	5.00
7	5.30	4.97	5.03	5.23	4.52	4.50	3.02	4.48	5.31	5.12	5.26	4.95
8	5.13	5.01	5.02	5.27	4.25	4.26	3.47	4.48	5.24	5.18	4.85	4.84
9	5.07	5.06	5.04	5.16	3.99	3.94	4.80	4.56	5.23	5.20	4.59	4.83
10	5.18	5.02	5.02	5.23	3.94	3.92	5.24	4.57	5.25	5.21	4.47	4.90
11	5.21	5.02	5.06	5.33	3.91	4.12	5.15	4.57	5.30	5.24	4.62	5.03
12	5.24	5.05	5.05	5.26	3.99	4.36	4.78	4.59	5.31	5.26	5.04	5.24
13	5.60	4.98	5.06	5.22	4.75	4.76	4.47	3.96	5.32	5.23	5.13	5.10
14	5.50	5.08	5.12	5.18	4.60	4.93	4.09	3.26	5.32	5.20	5.21	4.91
15	5.31	5.07	5.12	5.10	4.50	4.99	3.91	2.92	5.31	4.90	5.26	4.81
16	5.13	5.12	5.54	5.02	4.43	4.99	3.99	2.92	5.24	4.54	5.27	6.00
17	5.09	5.07	5.34	5.04	4.33	5.00	4.38	2.99	5.16	4.69	5.16	6.00
18	4.98	5.07	5.29	5.04	4.22	5.02	4.65	3.41	5.13	4.93	5.11	5.29
19	5.00	5.05	5.28	4.99	4.23	5.10	4.76	3.78	5.10	4.70	5.12	4.77
20	4.95	5.07	5.27	4.96	4.34	5.06	4.77	4.07	5.21	4.43	5.02	4.77
21	5.01	5.07	5.33	4.99	4.50	5.08	4.74	4.22	5.23	4.52	5.13	4.68
22	4.93	5.10	5.25	5.32	4.60	5.06	4.73	4.15	5.20	4.91	5.20	4.67
23	4.99	5.16	5.10	5.51	4.61	4.98	4.73	4.43	5.15	4.91	5.21	4.68
24	5.13	5.09	5.10	5.60	4.65	4.92	4.58	4.43	5.12	4.79	5.15	4.73
25	5.19	5.09	5.18	5.62	4.66	4.90	4.27	4.20	5.17	4.73	5.13	4.74
26	5.27	5.10	5.15	5.60	4.74	4.85	4.01	3.80	5.20	4.73	5.17	4.85
27	5.20	5.12	5.16	5.52	4.92	4.80	3.71	3.65	5.38	5.05	5.18	4.98
28	6.03	5.12	5.17	5.48	4.98	4.82	3.50	3.62	5.41	4.80	5.18	4.96
29	5.55	5.14	5.19	5.44	----	4.82	3.28	4.28	5.36	4.65	5.23	4.89
30	5.19	5.16	5.23	5.27	----	4.67	3.26	4.96	5.26	4.73	5.25	4.86
31	5.05	----	5.40	5.26	----	4.16	----	5.15	----	4.70	5.58	----
MAX	6.03	5.16	5.54	5.62	5.29	5.10	5.24	5.15	5.41	5.36	5.58	6.00
MIN	4.93	4.94	4.98	4.96	3.91	3.92	3.02	2.92	4.98	4.43	4.47	4.67

MISSISSIPPI RIVER DELTA

91

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, 2.60 ft Sept. 16; minimum, 0.17 ft Jan. 20.

Period of record: Maximum elevation, 2.60 ft Sept. 16, 1971; 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 1971 are published in Part 2 of this report.

ELEVATION, 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	1.48	1.42	1.10	.80	1.02	1.18	1.05	.97	.89	.71	1.21	1.27
2	1.56	1.41	1.14	.83	.91	1.27	1.36	.72	.88	.72	1.21	1.61
3	1.57	1.22	1.18	1.04	.95	1.49	.97	.71	.97	.68	1.22	1.69
4	1.52	.91	1.10	1.42	1.06	.80	1.17	.56	.98	.63	1.26	1.70
5	1.47	.62	.97	1.26	1.35	.66	1.25	.84	.95	.63	1.32	1.77
6	1.46	.52	.96	.78	1.31	.91	.95	1.23	.93	.62	1.35	1.71
7	1.66	.59	.65	.55	1.49	.80	.50	1.38	.96	.81	1.20	1.85
8	1.70	.78	.80	.46	1.45	.43	.25	1.21	.94	.96	.98	1.89
9	1.87	1.02	.91	.60	.90	.48	.34	1.05	.95	1.02	1.07	1.97
10	1.70	1.15	1.08	.85	.57	.89	.39	1.05	.92	1.16	1.10	2.08
11	1.58	1.00	1.26	1.13	.53	.71	.40	1.13	.94	1.27	.99	2.12
12	1.69	1.13	1.37	1.08	.90	.99	.41	1.48	.94	1.25	.83	2.17
13	1.97	1.10	1.10	1.13	.85	1.36	.53	1.38	.85	1.10	.74	2.01
14	1.99	1.27	.99	1.15	.40	1.20	.62	1.06	.81	.92	.80	1.81
15	1.93	.95	1.01	1.09	.40	1.32	.61	.95	.71	.81	.70	1.75
16	1.72	.60	1.41	.79	.42	.98	.70	.88	.65	.81	.78	2.26
17	1.51	.57	1.15	.76	.57	.97	.96	.86	.62	.80	.73	2.56
18	1.52	.70	1.07	.81	.60	.90	1.17	.97	.58	.74	.74	2.38
19	1.69	.87	1.06	.78	.85	1.37	1.34	1.27	.58	.69	.82	2.21
20	1.74	1.22	1.04	.30	1.16	.88	1.43	1.20	.59	.66	.97	2.08
21	1.60	.91	1.04	.34	1.23	.62	1.45	1.04	.53	.71	1.06	2.01
22	1.55	.97	1.07	.60	1.58	.79	1.46	.85	.60	.72	1.15	1.90
23	1.51	1.20	1.18	.85	1.16	.85	1.50	.89	.52	.77	1.24	1.86
24	1.67	.53	1.15	1.06	1.02	.95	1.46	1.14	.42	.90	1.21	1.84
25	1.57	.38	1.00	1.15	1.02	1.08	1.18	1.26	.42	1.00	1.25	1.87
26	1.38	.60	.75	1.19	1.10	1.30	1.21	1.22	.45	1.09	1.22	1.88
27	1.50	.78	.75	1.19	1.45	.93	1.20	1.17	.55	1.11	1.17	1.97
28	1.97	.97	.92	.99	1.13	1.05	1.28	1.17	.62	1.00	1.13	1.96
29	1.94	1.05	1.03	.93	-----	1.09	1.23	.97	.73	1.00	1.10	1.93
30	1.64	1.09	1.06	1.02	-----	1.01	1.28	.88	.75	.97	1.04	1.87
31	1.50	-----	1.05	1.00	-----	.81	-----	.87	-----	.98	1.14	-----
MAX	1.99	1.42	1.41	1.42	1.58	1.49	1.50	1.48	.98	1.27	1.35	2.56
MIN	1.38	.38	.65	.30	.40	.43	.25	.56	.42	.62	.70	1.27

MISSISSIPPI RIVER DELTA

0738130C 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.--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.--February to July 1970: Maximum gage height during period, not determined; minimum, not determined.

Current year: Maximum gage height, 6.12 ft Sept. 16, minimum, 3.39 ft Mar. 3.

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, FEBRUARY TO JULY 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					----	2.65	3.62	4.21	4.44	3.76		
2					----	3.03	3.71	3.90	4.53	3.65		
3					----	3.25	3.33	3.65	4.28	3.47		
4					----	4.09	3.67	3.83	4.18	3.47		
5					----	4.05	3.67	3.88	3.90	3.55		
6					----	3.94	3.60	3.72	3.53	3.32		
7					----	4.01	3.55	3.67	3.38	3.32		
8					----	3.86	3.52	3.64	3.38	3.15		
9					----	3.71	3.38	3.95	3.38	3.21		
10					----	3.69	3.40	4.13	3.43	3.21		
11					----	3.72	3.45	4.13	3.87	3.40		
12					2.35	3.70	3.57	4.09	4.23	3.55		
13					2.38	2.89	3.42	4.07	4.15	3.81		
14					2.70	2.47	3.07	----	3.91	4.04		
15					2.80	2.43	3.18	----	3.76	4.02		
16					3.03	2.56	3.55	----	3.92	3.92		
17					2.26	3.53	3.58	----	3.98	3.82		
18					2.54	3.31	3.87	----	3.93	3.74		
19					2.60	3.61	4.40	4.38	3.80	3.69		
20					2.37	3.35	4.00	4.37	3.77	3.65		
21					2.50	3.58	4.02	4.38	3.75	3.71		
22					2.76	3.19	4.15	4.22	3.63	3.75		
23					2.80	3.20	4.15	4.11	3.63	3.90		
24					3.15	3.14	4.10	4.03	3.55	3.99		
25					3.39	3.48	3.99	3.95	3.90	----		
26					2.37	3.27	4.00	3.83	3.91	----		
27					2.51	3.26	4.05	3.70	3.81	----		
28					2.53	3.42	4.17	3.80	3.79	----		
29					----	3.22	4.06	4.14	3.74	----		
30					----	3.38	4.21	4.22	3.71	----		
31					----	3.28	----	4.27	----	----		
MAX					----	4.01	4.40	----	4.53	----		
MIN					----	2.43	3.07	----	3.38	----		

MISSISSIPPI RIVER DELTA

93

07381300 Bayou Lafourche at Golden Meadow, La.--Continued

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	----	4.93	4.77	4.40	4.49	4.66	4.46	4.02	4.51	4.52	4.93	5.12
2	----	5.02	4.93	4.48	4.52	4.65	4.38	3.95	4.90	4.55	4.98	5.35
3	----	4.79	4.94	4.96	4.78	4.47	4.17	3.87	4.75	4.46	4.99	5.31
4	----	4.51	4.72	5.11	4.77	3.40	4.52	4.05	4.67	4.53	4.96	5.33
5	----	4.22	4.70	4.23	4.68	3.73	4.67	4.68	4.69	4.48	4.90	5.29
6	----	4.50	4.49	3.87	4.72	4.23	4.16	4.97	4.68	4.40	4.75	5.15
7	----	4.51	4.14	3.86	4.92	3.78	3.56	4.90	4.73	4.67	4.42	5.43
8	----	4.58	4.28	3.95	4.44	3.67	3.67	4.75	4.64	4.60	4.51	5.72
9	----	4.74	4.78	4.01	3.88	3.83	4.02	4.60	4.57	4.53	4.73	5.82
10	----	4.38	4.59	4.32	3.62	4.40	4.11	4.70	4.47	4.87	4.68	5.98
11	----	4.34	4.84	4.46	4.17	4.20	4.15	4.72	4.31	4.80	4.60	5.91
12	----	4.48	5.35	4.38	4.69	4.74	4.10	5.12	4.22	4.77	4.59	5.81
13	----	4.60	4.62	4.53	3.64	4.87	4.27	4.47	4.11	4.67	4.66	5.52
14	----	5.08	4.74	4.56	4.07	4.81	4.17	4.19	4.25	4.50	4.73	5.40
15	----	4.36	4.80	4.34	4.17	4.70	4.08	4.21	4.19	4.72	4.69	5.35
16	----	4.19	5.10	4.07	4.00	4.17	4.08	4.14	4.27	4.76	4.74	5.69
17	----	4.40	4.62	4.18	3.90	3.98	4.37	4.17	4.38	4.69	4.62	5.66
18	----	4.67	4.78	4.31	3.81	4.35	4.72	4.51	4.45	4.58	4.63	5.25
19	----	4.86	4.89	3.67	4.35	4.45	4.77	4.75	4.40	4.52	4.66	5.17
20	----	4.86	4.49	3.73	4.50	3.60	4.81	4.85	4.41	4.48	4.67	5.21
21	----	4.53	4.50	3.80	4.72	3.67	4.88	4.75	4.32	4.40	4.74	5.13
22	----	4.64	4.39	4.00	5.07	3.92	4.99	4.67	4.16	4.27	4.89	5.25
23	----	4.32	5.06	4.22	4.35	4.08	5.14	4.71	3.89	4.36	4.81	5.39
24	----	3.63	4.45	4.22	4.34	4.36	4.91	4.90	3.87	4.56	4.86	5.49
25	----	3.78	4.35	4.37	4.54	4.86	4.85	4.86	3.93	4.56	4.98	5.61
26	----	4.09	4.03	4.45	4.96	4.70	4.84	4.15	3.93	4.76	5.00	5.64
27	----	4.19	4.29	4.37	4.87	4.68	4.77	4.60	4.19	4.62	5.00	5.74
28	5.42	4.52	4.50	4.27	4.66	4.79	4.70	4.41	4.19	4.65	5.03	5.71
29	5.07	4.51	4.62	4.32	----	4.71	4.62	4.20	4.40	4.74	5.02	5.60
30	4.84	4.64	4.69	4.64	----	4.02	4.59	4.28	4.42	4.71	5.05	5.59
31	4.89	----	4.75	4.77	----	4.11	----	4.40	----	4.81	5.04	----
MAX	----	5.08	5.35	5.11	5.07	4.87	5.14	5.12	4.75	4.87	5.05	5.98
MIN	----	3.63	4.03	3.67	3.62	3.40	3.56	3.87	3.87	4.27	4.42	5.12

MISSISSIPPI RIVER DELTA

07381800 Spring Creek near Glenmora, La.

LOCATION.--Lat 31°00'10", long 92°34'10", in SE¼NE¼ 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.--15 years, 87.2 cfs (17.34 inches per year, 63,180 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,500 cfs Oct. 12 (gage height, 14.84 ft); minimum, 27 cfs Oct. 4, 5, 6 (gage height, 4.55 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	48	45	72	42	89	74	43	48	40	42	37
2	28	45	45	60	41	187	67	43	48	40	52	36
3	28	44	45	96	41	664	62	43	48	40	43	35
4	27	44	46	158	60	212	59	43	47	43	41	34
5	27	43	43	63	84	108	58	43	46	37	43	34
6	27	43	43	55	58	87	56	199	46	36	80	34
7	28	42	42	52	55	78	55	447	45	36	42	35
8	29	41	42	53	49	74	55	92	44	36	42	34
9	31	44	42	53	46	69	54	65	44	36	74	34
10	29	45	41	56	45	69	53	59	43	38	53	34
11	75	46	49	55	45	66	52	105	43	38	42	37
12	1,900	46	59	55	204	65	52	734	42	36	40	35
13	928	60	44	53	180	63	51	598	42	35	45	34
14	146	262	42	54	95	61	50	172	41	35	38	33
15	75	153	82	58	66	60	50	88	41	35	37	36
16	61	70	172	58	59	58	50	72	41	35	36	57
17	56	56	62	56	54	56	50	65	41	35	36	48
18	51	52	52	55	52	120	50	61	40	34	36	37
19	49	49	48	51	52	509	50	59	40	34	35	79
20	48	49	46	48	72	158	48	237	40	37	37	80
21	48	48	44	47	97	90	70	70	40	50	45	56
22	47	47	43	47	86	78	52	60	40	47	37	46
23	48	46	43	55	70	72	50	56	40	54	36	42
24	61	46	42	63	60	67	47	56	39	61	63	42
25	48	46	42	56	55	66	47	60	38	41	47	39
26	48	46	41	51	879	64	46	53	38	41	38	39
27	57	46	42	48	622	61	46	53	38	43	36	39
28	109	45	42	46	139	60	45	60	37	37	36	39
29	100	45	177	45	-----	287	44	53	41	42	35	38
30	62	45	112	44	-----	185	44	50	47	48	35	38
31	51	-----	106	43	-----	95	-----	49	-----	55	35	-----
TOTAL	4,350	1,742	1,824	1,806	3,408	3,978	1,587	3,888	1,268	1,255	1,337	1,241
MEAN	140	58.1	58.8	58.3	122	128	52.9	125	42.3	40.5	43.1	41.4
MAX	1,900	262	177	158	879	664	74	734	48	61	80	80
MIN	27	41	41	43	41	56	44	43	37	34	35	33
CFSM	2.05	.85	.86	.85	1.79	1.87	.77	1.83	.62	.59	.63	.61
IN.	2.37	.95	.99	.98	1.86	2.17	.86	2.12	.69	.68	.73	.68
AC-FT	8,630	3,460	3,620	3,580	6,760	7,890	3,150	7,710	2,520	2,490	2,650	2,460
CAL YR 1970	TOTAL 19,967	MEAN 54.7	MAX 1,900	MIN 27	CFSM .80	IN 10.88	AC-FT 39,600					
WTR YR 1971	TOTAL 27,684	MEAN 75.8	MAX 1,900	MIN 27	CFSM 1.11	IN 15.08	AC-FT 54,910					

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-12	1530	14.84	2,500	2-27	0015	13.19	1,200

MISSISSIPPI RIVER DELTA

95

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.--36 years (1922-24, 1937-71), 404 cfs (22.86 inches per year, 292,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,310 cfs Oct. 14 (gage height, 17.52 ft); minimum daily, 56 cfs Oct. 7, 8, 10.
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 (usable capacity, 9,000 acre-ft). Storage began Jan. 23, 1959. Records of water temperatures for the water year 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	1,080	231	580	163	899	798	140	477	102	191	99
2	58	1,050	213	561	154	901	777	135	425	120	211	99
3	59	1,020	198	521	149	944	753	130	379	130	224	98
4	58	994	184	490	150	986	724	122	340	133	230	94
5	58	965	173	481	163	988	687	117	304	128	237	91
6	57	937	160	462	186	971	631	189	276	125	246	89
7	56	909	151	433	215	949	565	584	249	119	233	92
8	56	881	144	415	228	925	502	784	225	116	230	93
9	57	858	139	389	226	900	447	799	204	121	257	91
10	56	832	134	369	221	878	402	781	186	118	291	92
11	60	806	134	357	214	853	362	781	171	114	314	97
12	519	781	135	344	422	828	327	886	159	109	309	96
13	1,170	765	132	334	653	806	296	1,000	147	103	299	93
14	1,310	786	129	325	753	782	269	1,050	138	98	288	90
15	1,290	798	135	323	760	756	245	1,040	130	94	272	97
16	1,250	798	147	326	744	728	224	1,010	124	89	251	178
17	1,210	781	162	332	719	692	207	981	117	84	229	244
18	1,170	759	173	322	683	658	194	950	111	81	210	270
19	1,140	736	174	303	628	728	180	921	106	81	191	328
20	1,110	708	170	280	562	789	169	895	104	83	176	388
21	1,070	662	164	261	516	792	200	888	111	101	164	403
22	1,040	601	159	245	479	777	224	865	95	112	156	395
23	1,010	530	154	251	437	754	231	836	96	121	148	375
24	996	467	148	251	402	729	219	809	93	125	141	352
25	972	413	143	246	372	701	205	785	90	127	135	325
26	946	370	137	236	511	655	192	757	88	126	129	297
27	954	333	132	219	795	598	180	728	85	127	123	274
28	969	301	129	209	891	538	170	702	83	133	117	261
29	1,140	276	292	200	-----	653	158	657	83	145	111	240
30	1,140	252	448	191	-----	761	148	597	88	169	105	220
31	1,110	-----	555	177	-----	801	-----	535	-----	183	103	-----
TOTAL	22,150	21,449	5,679	10,430	12,396	24,720	10,686	21,454	5,284	3,617	6,321	5,961
MEAN	715	715	183	336	443	797	356	692	176	117	204	199
MAX	1,310	1,080	555	580	891	988	798	1,050	477	183	314	403
MIN	56	252	129	177	149	538	148	117	83	81	103	89
CFSM	2.98	2.98	.76	1.43	1.85	3.32	1.48	2.88	.73	.49	.85	.83
IN.	3.43	3.32	.88	1.62	1.92	3.83	1.66	3.33	.82	.56	.98	.92
AC-FT	43,930	42,540	11,260	20,690	24,590	49,030	21,200	42,550	10,480	7,170	12,540	11,820
CAL YR 1970	TOTAL 105,849		MEAN 290	MAX 1,310	MIN 56	CFSM 1.21	IN 16.41	AC-FT 210,000				
WTR YR 1971	TOTAL 150,147		MEAN 411	MAX 1,310	MIN 56	CFSM 1.71	IN 23.27	AC-FT 297,800				

MISSISSIPPI RIVER DELTA

07382500 Bayou Courtableau at Washington, La.

LOCATION.--Lat 30°37'05", long 92°03'20", in lot 81, T.5 S., R.4 E., Louisiana meridian, St. Landry Parish, near center of span on downstream side of bridge on State Highway 10 at Washington, 0.2 mile upstream from Texas and New Orleans Railroad Co. bridge, 1.2 miles upstream from Bayou Carron, 3.5 miles downstream from confluence of Bayou Cocodrie and Bayou Boeuf, and 6.0 miles north of Opelousas.

DRAINAGE AREA.--715 sq mi (see REMARKS).

PERIOD OF RECORD.--July 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Louisiana Geodetic Survey bench mark,. Prior to Aug. 23, 1948, non-recording gage at same site and datum. Auxiliary water-stage recorder 3.2 miles upstream. Datum of auxiliary gage is at mean Gulf level (Corps of Engineers bench mark). Prior to Feb. 28, 1949, auxiliary nonrecording gage at site 3.5 miles upstream at same datum.

AVERAGE DISCHARGE.--25 years, 995 cfs (720,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,560 cfs Oct 17; maximum elevation, 27.02 ft Oct 30; minimum daily discharge, 83 cfs; July 19.

Period of record: Maximum discharge, 9,490 cfs May 21, 1953; maximum elevation, 35.29 ft May 22, 1953; minimum discharge, 71 cfs June 16, 1963; minimum elevation, 10.72 ft Oct. 18, 1956.

REMARKS.--Records good. Some flow diverted from Bayou Boeuf into Chatlin Lake Canal through Bayou Lamourie. Since April 1952, floodflow is diverted from 76.1 sq mi in Bayou Rapides basin into Bayou Boeuf when stages of Red River makes it necessary to close gates at mouth of Bayou Rapides. In extreme floods, considerable flow bypasses the station. Records of chemical analyses and water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	4,350	514	1,700	607	3,160	1,530	215	708	130	1,060	169
2	267	4,250	497	1,440	540	2,890	1,300	199	605	135	933	179
3	240	4,040	474	1,280	550	3,310	1,150	187	597	145	733	215
4	219	3,740	426	1,090	505	3,420	1,040	162	583	160	894	223
5	199	3,280	406	1,060	809	3,290	978	159	529	234	1,790	203
6	193	2,660	393	1,070	662	3,000	900	158	528	238	1,890	213
7	189	2,030	386	998	756	2,680	817	1,110	497	186	1,510	192
8	204	1,560	372	894	1,170	2,240	777	1,490	394	184	984	199
9	240	1,390	362	787	1,300	1,900	694	1,510	365	189	723	190
10	206	1,300	355	771	980	1,770	684	1,310	311	174	577	167
11	170	1,220	314	843	733	1,720	637	1,930	260	170	551	165
12	2,100	1,200	262	849	1,460	1,580	567	3,320	221	154	446	164
13	4,010	1,160	250	848	3,140	1,500	575	3,480	200	136	468	149
14	4,070	2,100	258	1,060	2,900	1,390	490	3,750	172	145	518	132
15	4,300	2,540	328	2,160	2,570	1,290	428	3,870	166	143	476	141
16	4,500	2,220	521	1,980	2,060	1,240	411	3,800	168	122	440	1,180
17	4,540	1,810	533	1,400	1,580	1,190	361	3,570	172	110	431	2,780
18	4,460	1,580	602	1,060	1,320	1,170	352	3,060	169	96	448	2,560
19	4,300	1,420	705	797	1,250	2,520	312	2,350	173	83	398	2,580
20	4,050	1,300	716	742	1,240	2,560	303	1,660	156	148	379	2,760
21	3,760	1,220	650	694	1,180	2,210	310	1,360	156	553	343	2,630
22	3,370	1,190	499	569	1,200	1,780	416	1,270	148	398	284	2,270
23	2,810	1,100	470	839	1,150	1,340	360	1,160	116	306	255	1,620
24	2,540	971	448	1,160	1,320	1,160	338	1,020	136	325	240	1,090
25	2,120	879	722	931	1,200	1,070	348	880	108	314	213	826
26	1,680	742	621	768	1,430	994	344	993	127	298	211	690
27	2,070	702	555	465	3,320	948	328	1,070	139	306	208	596
28	3,830	676	416	464	3,280	875	283	956	152	364	185	489
29	4,030	643	500	525	-----	1,280	277	856	147	484	170	499
30	4,260	592	1,290	523	-----	2,130	239	840	129	802	175	524
31	4,360	-----	1,930	546	-----	1,840	-----	774	---	1,320	179	-----
TOTAL	73,627	53,865	16,775	30,313	40,212	59,447	17,549	48,469	8,332	8,552	18,112	25,795
MEAN	2,375	1,796	541	978	1,436	1,918	585	1,564	278	276	584	860
MAX	4,500	4,350	1,930	2,160	3,320	3,420	1,530	3,870	708	1,320	1,890	2,780
MIN	170	592	250	464	505	875	239	158	108	83	170	132
AC-FT	146,000	106,800	33,270	60,130	79,760	117,900	34,810	96,140	16,530	16,960	35,930	51,160
CAL YR 1970	TOTAL	284,420	MEAN	779	MAX	4,500	MIN	121	AC-FT	564,100		
WTR YR 1971	TOTAL	401,048	MEAN	1,099	MAX	4,500	MIN	83	AC-FT	795,500		

MISSISSIPPI RIVER DELTA

97

07383500 Bayou des Glaises 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 Glaises.

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.--28 years, 410 cfs (297,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,670 cfs Oct. 12; maximum gage height, 18.31 ft Oct. 13; minimum, 12 cfs Oct. 8 (gage height, 2.40 ft).
Period of record: Maximum discharge, 6,340 cfs May 18, 1953 (gage height, 22.68 ft present datum); minimum, 2.8 cfs Oct. 26, 27, 1964.

REMARKS.--Records good except those for Oct. 12-25, Oct. 28 to Nov. 1 (variable backwater periods) which are poor. Diversion channel carries natural flow of Bayou des Glaises 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	1,190	57	706	88	968	585	40	432	81	204	33
2	20	1,160	57	655	80	1,130	544	40	292	191	175	63
3	16	1,060	58	621	73	1,580	505	40	181	292	151	115
4	15	959	55	583	72	1,350	450	40	120	279	196	91
5	14	868	53	564	289	1,310	345	40	91	195	196	57
6	13	779	51	546	402	1,310	232	117	91	120	165	37
7	13	702	47	523	421	1,280	162	896	92	87	213	30
8	13	638	44	492	393	1,220	116	824	80	82	180	29
9	13	583	42	453	313	1,150	89	944	71	59	192	27
10	19	537	40	409	287	1,080	74	937	63	40	326	25
11	21	496	41	399	186	996	64	1,520	61	32	375	26
12	2,100	446	42	386	904	916	56	2,480	63	26	327	26
13	2,110	402	43	345	1,030	836	50	2,050	71	22	244	26
14	1,700	746	46	296	793	760	44	1,620	66	19	168	26
15	1,420	624	65	348	832	686	42	1,480	61	18	122	27
16	1,260	618	155	465	863	630	41	1,410	59	17	89	432
17	1,200	619	398	492	848	578	40	1,340	51	16	71	788
18	1,160	594	417	474	800	536	40	1,250	41	15	59	622
19	1,250	559	373	440	742	576	40	1,160	41	14	49	643
20	1,190	522	280	379	684	664	40	1,060	40	13	42	735
21	1,150	486	205	283	689	760	56	1,010	40	18	38	735
22	1,110	438	152	210	775	829	157	964	45	34	32	735
23	1,050	354	121	430	668	839	222	889	62	56	26	713
24	1,000	266	99	520	621	810	165	798	81	68	23	680
25	950	195	86	409	586	762	107	729	76	60	21	624
26	920	145	76	326	762	704	76	689	64	58	44	569
27	1,570	115	65	252	901	653	56	657	51	81	68	528
28	1,350	100	58	202	896	603	44	664	40	102	62	515
29	1,320	82	648	154	-----	682	41	608	33	80	47	492
30	1,280	66	1,300	122	-----	646	41	561	37	70	38	447
31	1,240	-----	1,020	100	-----	614	-----	509	-----	198	33	-----
TOTAL	26,514	16,349	6,194	12,584	15,998	27,458	4,524	27,366	2,596	2,443	3,976	9,896
MEAN	855	545	200	406	571	886	151	883	86.5	78.8	128	330
MAX	2,110	1,190	1,300	706	1,030	1,580	585	2,480	432	292	375	788
MIN	13	66	40	100	72	536	40	40	33	13	21	25
AC-FT	52,590	32,430	12,290	24,960	31,730	54,460	8,970	54,280	5,150	4,850	7,890	19,630
CAL YR 1970:	TOTAL	99,604	MEAN	273	MAX	2,110	MIN	13	AC-FT	197,600		
WTR YR 1971:	TOTAL	155,898	MEAN	427	MAX	2,480	MIN	13	AC-FT	309,200		

MISSISSIPPI RIVER DELTA

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

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.94	11.47	3.48	9.12	3.93	10.26	8.39	3.20	7.18	3.78	5.19	2.87
2	2.76	11.01	3.48	8.84	3.82	10.86	8.09	3.20	6.00	5.05	4.90	3.39
3	2.61	10.61	3.50	8.63	3.72	12.63	7.79	3.20	4.95	6.00	4.66	4.19
4	(a)	10.22	3.45	8.38	3.70	11.72	7.33	3.19	4.31	5.88	5.07	3.85
5	(a)	9.84	3.42	8.24	5.44	11.58	6.46	3.19	3.96	5.09	5.10	3.34
6	2.44	9.47	3.38	8.11	6.93	11.57	5.46	3.90	3.96	4.29	4.79	2.96
7	2.43	9.10	3.32	7.93	7.09	11.46	4.76	9.95	3.97	3.91	5.28	2.82
8	2.43	8.74	3.27	7.68	6.86	11.24	4.27	9.66	3.82	3.84	4.95	2.79
9	2.44	8.38	3.23	7.36	6.18	10.97	3.94	10.16	3.68	3.51	5.05	2.75
10	2.70	8.04	3.20	6.99	5.51	10.70	3.73	10.13	3.57	3.20	6.30	2.71
11	2.77	7.72	3.22	6.91	5.01	10.37	3.58	12.26	3.54	3.03	6.71	2.73
12	15.25	7.30	3.24	6.80	9.81	10.04	3.46	15.79	3.57	2.91	6.31	2.72
13	18.05	6.93	3.25	6.46	10.48	9.71	3.36	14.34	3.69	2.81	5.57	2.74
14	16.43	9.31	3.30	6.05	9.53	9.38	3.27	12.76	3.62	2.73	4.81	2.73
15	14.47	8.65	3.59	6.48	9.69	9.01	3.23	12.23	3.54	2.68	4.26	2.75
16	13.21	8.61	4.57	7.46	9.82	8.69	3.21	11.95	3.52	2.65	3.84	6.63
17	12.74	8.62	6.90	7.68	9.76	8.34	3.20	11.68	3.37	2.60	3.55	9.50
18	12.52	8.46	7.06	7.53	9.56	8.03	3.19	11.35	3.21	2.55	3.36	8.64
19	12.51	8.21	6.69	7.25	9.30	8.33	3.19	10.99	3.21	2.50	3.18	8.77
20	12.29	7.92	5.90	6.74	9.00	8.89	3.19	10.62	3.20	2.47	3.06	9.27
21	11.85	7.63	5.20	5.93	9.03	9.38	3.45	10.43	3.19	2.66	2.98	9.27
22	11.43	7.23	4.67	5.25	9.45	9.68	4.62	10.24	3.28	3.08	2.85	9.27
23	11.05	6.53	4.31	7.15	8.91	9.72	5.37	9.93	3.56	3.45	2.73	9.16
24	10.86	5.77	4.06	7.91	8.63	9.60	4.79	9.55	3.83	3.64	2.65	8.98
25	10.46	5.09	3.90	6.99	8.40	9.39	4.15	9.24	3.75	3.53	2.60	8.65
26	10.06	4.58	3.75	6.30	9.36	9.11	3.75	9.03	3.58	3.50	3.07	8.28
27	12.21	4.26	3.60	5.65	9.98	8.83	3.47	8.85	3.38	3.81	3.51	7.97
28	16.01	4.07	3.50	5.17	9.96	8.52	3.26	8.89	3.19	4.10	3.41	7.87
29	14.34	3.85	8.44	4.69	-----	8.99	3.22	8.55	3.06	3.82	3.14	7.68
30	12.75	3.62	11.50	4.33	-----	8.79	3.21	8.22	3.14	3.67	2.97	7.31
31	11.94	-----	10.46	4.08	-----	8.59	-----	7.82	-----	5.12	2.88	-----
MAX	18.05	11.47	11.50	9.12	10.48	12.63	8.39	15.79	7.18	6.00	6.71	9.50
MIN	2.43	3.62	3.20	4.08	3.70	8.03	3.19	3.19	3.06	2.47	2.60	2.71

a No gage-height record.

MISSISSIPPI RIVER DELTA

99

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 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, 16.25 ft May 15; minimum, not determined.

Period of record: Maximum gage height, 18.03 ft Feb. 12, 1966; minimum, not determined.

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	13.02	-----	12.98	14.98	13.37	15.58	15.88	11.52	12.94	10.34	13.60	10.58
2	12.89	-----	12.92	14.94	13.19	15.56	15.80	11.42	12.79	10.54	13.75	10.53
3	12.32	-----	12.83	14.85	13.07	15.67	15.67	11.33	12.65	10.91	13.85	11.14
4	12.02	-----	12.70	14.82	12.99	16.06	15.52	10.90	12.49	11.44	13.78	11.55
5	11.68	-----	12.55	14.96	13.00	16.05	15.34	10.71	12.35	11.87	14.15	12.07
6	11.39	-----	12.42	14.88	13.00	15.89	15.17	10.58	12.20	12.11	14.80	12.44
7	11.24	15.83	12.26	14.76	13.22	15.79	14.98	10.95	12.06	12.20	15.13	12.70
8	11.00	15.56	12.10	14.61	13.75	15.69	14.78	11.00	11.94	12.21	15.20	12.82
9	10.93	15.34	11.93	14.41	14.17	15.57	14.57	11.11	11.83	11.77	15.12	12.47
10	10.94	15.09	11.76	14.23	14.35	15.49	14.38	11.51	11.72	11.58	14.98	12.22
11	10.86	14.80	11.60	14.06	14.29	15.40	14.16	12.37	11.60	11.47	14.73	11.98
12	11.36	14.58	11.62	13.93	14.69	15.34	13.96	13.66	11.47	11.25	14.42	11.77
13	14.35	14.36	11.64	13.83	15.72	15.31	13.77	15.70	11.33	11.01	14.10	11.55
14	15.22	14.53	11.68	13.76	16.01	15.31	13.59	16.13	11.23	10.76	13.80	11.30
15	15.61	14.70	11.66	13.73	15.96	15.29	13.38	16.22	10.80	10.55	13.52	11.08
16	15.75	14.85	12.16	14.15	15.75	15.25	13.21	16.20	10.60	10.32	13.27	11.30
17	15.80	15.06	12.30	14.38	-----	15.24	13.06	16.10	10.41	10.12	13.06	15.32
18	15.79	14.85	12.41	14.42	15.63	15.23	12.95	15.93	10.24	-----	12.85	15.95
19	15.72	14.79	12.53	14.29	15.42	15.32	12.22	15.65	10.15	-----	12.67	16.11
20	15.70	14.62	12.62	14.09	15.20	15.80	12.49	15.49	10.02	-----	12.51	16.20
21	15.64	14.43	12.66	13.89	15.00	15.84	12.22	15.30	-----	10.44	12.35	16.14
22	15.55	14.24	12.66	13.69	14.80	15.76	12.17	15.06	10.05	10.88	12.19	16.01
23	15.38	14.05	12.71	13.53	14.64	15.64	12.35	14.79	10.03	11.39	12.07	15.76
24	15.21	13.84	13.31	13.52	14.48	15.55	12.25	14.52	10.05	11.88	11.95	15.62
25	15.03	13.70	13.47	13.71	14.37	15.45	12.15	14.23	10.10	12.28	11.83	15.39
26	14.78	13.56	13.54	14.00	14.35	15.84	12.06	13.93	10.11	12.64	11.50	15.11
27	14.53	13.42	13.50	14.10	14.67	15.74	11.96	13.72	10.18	12.95	11.29	14.94
28	-----	13.30	13.43	14.05	15.47	15.66	11.83	13.72	10.25	13.14	11.15	14.69
29	-----	13.20	12.84	13.93	-----	15.80	11.73	13.53	10.16	13.22	10.98	14.39
30	-----	13.11	13.79	13.76	-----	15.94	11.63	13.30	10.08	13.13	10.82	14.13
31	-----	-----	14.59	13.58	-----	15.99	-----	13.11	-----	13.32	10.69	-----
MAX	15.80	15.83	14.59	14.98	16.01	16.06	15.88	16.22	12.94	13.32	15.20	16.20
MIN	-----	-----	11.60	13.52	12.99	15.23	11.63	10.58	-----	-----	10.69	10.53

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.--22 years, 810 cfs (586,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,700 cfs Oct. 30; maximum elevation, 16.91 ft Oct. 14; minimum, 97 cfs June 22; minimum elevation, 9.78 ft July 20,21.

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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650	1,550	627	984	751	1,150	1,080	383	1,010	393	913	255
2	580	1,490	619	897	700	1,160	1,050	357	994	410	939	263
3	540	1,420	608	822	653	1,200	1,220	321	965	513	1,080	333
4	500	1,360	585	791	620	1,190	995	306	915	548	1,100	426
5	470	1,290	563	901	637	1,150	971	300	854	589	1,210	476
6	450	1,210	541	951	821	1,110	997	283	775	568	1,170	531
7	420	1,120	518	880	1,030	1,050	1,030	382	701	521	1,040	532
8	400	1,020	497	830	1,070	1,020	1,030	901	630	447	854	507
9	380	948	474	831	804	1,090	1,010	1,060	564	415	650	480
10	370	906	446	836	818	1,130	985	880	507	409	878	447
11	360	865	433	841	878	1,110	957	1,170	458	380	896	428
12	700	832	428	851	1,300	1,090	902	1,560	407	352	1,010	399
13	1,400	772	434	885	1,260	1,070	843	1,660	358	310	1,010	361
14	1,550	997	442	883	1,260	1,050	778	1,650	327	270	990	330
15	1,580	1,130	465	979	1,140	1,030	709	1,550	314	247	960	301
16	1,550	1,110	539	928	1,020	1,020	636	1,420	290	230	896	569
17	1,480	1,010	652	864	903	1,020	576	1,280	245	215	829	1,290
18	1,420	915	759	777	913	1,020	541	1,150	237	200	750	1,120
19	1,390	848	716	830	900	1,200	517	1,070	204	190	671	1,200
20	1,390	780	644	839	837	1,200	513	968	170	300	595	1,130
21	1,340	731	590	812	808	1,180	491	982	155	450	538	1,120
22	1,280	708	595	826	815	1,160	482	966	127	587	506	1,120
23	1,180	686	733	847	935	1,150	504	912	157	732	488	1,100
24	1,110	719	706	1,050	893	1,100	531	881	184	786	456	1,100
25	1,060	710	532	1,070	846	1,080	541	981	263	793	414	1,040
26	985	725	594	802	1,030	1,060	541	1,010	241	767	371	987
27	1,050	715	538	860	1,170	1,050	525	967	258	746	345	950
28	1,610	687	501	884	1,190	1,050	492	959	264	793	326	1,010
29	1,670	656	570	873	-----	1,130	460	1,000	253	906	302	1,040
30	1,680	629	806	850	-----	1,150	420	1,020	287	1,060	287	1,020
31	1,630	-----	929	798	-----	1,130	-----	1,020	-----	1,170	274	-----
TOTAL	32,175	28,539	18,084	27,072	26,002	34,300	22,127	29,349	13,114	16,315	22,848	21,865
MEAN	1,038	951	583	873	829	1,106	738	947	437	526	737	729
MAX	1,680	1,550	929	1,070	1,300	1,200	1,080	1,660	1,010	1,170	1,210	1,290
MIN	360	629	428	777	620	1,020	420	283	127	190	274	255
AC-FT	63,820	56,610	35,870	53,700	51,570	68,030	43,990	58,210	26,010	32,360	45,320	43,370
CAL YR 1970	TOTAL	260,117	MEAN	713	MAX	1,680	MIN	113	AC-FT	515,900		
WTR YR 1971	TOTAL	291,790	MEAN	799	MAX	1,680	MIN	127	AC-FT	578,800		

MISSISSIPPI RIVER DELTA

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07385700 Bayou Teche at Keystone Lock, near St. Martinville, La.

LOCATION.--Lat 30°04'15", long 91°49'45", in 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.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder. Datum of gage is mean low Gulf level or 0.78 ft below mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--12 years, 436 cfs (315,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,650 cfs Sept. 16 (gage height, 11.47 ft); minimum, 48 cfs May 2, 3 (gage height, 9.66 ft).
Period of record: Maximum discharge, 3,590 cfs Feb. 12, 1966; maximum gage height, 15.59 ft Oct. 4, 1964; minimum discharge, no flow Aug. 10-29, 1962, June 12-16, 1963, July 24, 1964.

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 Glaises 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 Fusillier 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	551	1,030	396	847	555	788	417	118	230	279	541	326
2	475	972	396	716	519	801	408	61	220	314	515	395
3	440	921	387	594	481	780	349	72	218	364	630	315
4	414	877	386	591	437	781	348	146	204	233	656	347
5	383	835	372	581	460	760	338	103	179	224	686	480
6	428	794	364	638	505	752	310	98	144	194	669	491
7	405	745	348	635	768	713	310	169	124	132	587	485
8	317	690	336	618	779	667	318	295	153	168	546	485
9	349	652	320	590	693	668	326	434	121	190	787	426
10	317	615	308	590	580	966	303	330	93	173	750	460
11	314	583	321	588	576	865	282	496	118	179	656	418
12	754	561	341	601	831	776	260	575	97	133	570	395
13	1,210	586	303	604	1,030	729	236	694	86	121	542	330
14	1,260	781	304	608	992	705	235	594	107	146	521	298
15	1,240	757	414	628	901	699	202	475	99	128	497	305
16	1,170	740	418	645	783	687	189	371	86	138	458	1,160
17	1,060	689	417	626	679	674	190	282	99	161	493	1,440
18	958	632	480	587	622	666	164	236	136	135	574	1,500
19	891	567	508	559	610	978	170	215	141	112	547	1,500
20	870	532	480	578	587	940	190	202	143	89	494	1,470
21	851	490	435	562	531	890	196	216	142	125	448	1,380
22	785	469	418	567	544	829	182	244	147	270	418	1,260
23	732	458	439	587	574	732	197	227	155	428	381	1,110
24	743	446	852	634	605	477	207	212	169	445	310	929
25	692	450	872	721	569	424	210	231	188	479	244	783
26	632	449	660	644	625	424	207	264	177	420	296	699
27	852	473	459	581	732	389	178	261	202	356	301	657
28	1,220	460	378	609	771	400	179	232	203	336	293	665
29	1,160	442	447	610	-----	474	169	221	212	376	281	684
30	1,100	418	685	612	-----	486	165	232	203	470	267	679
31	1,100	-----	909	601	-----	429	-----	239	-----	636	255	-----
TOTAL	23,673	19,114	14,153	19,152	18,339	21,349	7,435	8,545	4,596	7,954	15,213	21,872
MEAN	764	637	457	618	655	689	248	276	153	257	491	729
MAX	1,260	1,030	909	847	1,030	978	417	694	230	636	787	1,500
MIN	314	418	303	559	437	389	164	61	86	89	244	298
AC-FT	46,960	37,910	28,070	37,990	36,380	42,350	14,750	16,950	9,120	15,780	30,170	43,380
CAL YR 1970	TOTAL	138,285	MEAN	379	MAX	1,260	MIN	72	AC-FT	274,300		
WTR YR 1971	TOTAL	181,395	MEAN	497	MAX	1,500	MIN	61	AC-FT	359,800		

MISSISSIPPI RIVER DELTA

07386700 Ruth Canal near Ruth, La.

LOCATION.--Lat 30°14'35", long 91°53'05", in NE1/4NW1/4 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 1945 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 nonrecording gage 150 ft below control structure at same datum. Prior to Nov. 4, 1965, auxiliary water-stage recorder at same site and datum.

AVERAGE DISCHARGE.--12 years, 159 cfs (115,200 acre-ft per year).

EXTREMES.--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.

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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	32	24	30	25	29	356	178	437	22	345	23
2	24	31	24	28	25	29	360	209	437	23	347	23
3	24	31	24	27	25	28	366	218	442	24	310	22
4	24	30	24	26	25	29	355	136	436	24	313	23
5	23	30	24	26	24	28	354	75	435	246	314	25
6	24	29	23	27	25	28	362	114	434	324	320	25
7	23	28	23	27	28	28	367	150	432	276	327	25
8	22	28	23	26	28	27	368	242	382	201	356	25
9	23	27	23	26	27	27	376	348	382	211	138	24
10	22	26	23	26	26	31	379	390	352	210	88	24
11	22	26	23	26	26	29	379	410	269	218	182	24
12	28	26	23	26	29	28	363	501	267	236	224	24
13	34	27	22	26	32	28	361	583	204	163	235	23
14	35	29	22	26	31	28	326	648	175	143	241	22
15	34	29	24	27	30	27	306	654	176	146	245	22
16	34	28	24	27	29	27	256	654	176	56	248	32
17	32	28	24	26	27	27	243	608	59	48	85	37
18	31	27	25	26	27	28	235	550	20	63	26	38
19	30	26	25	26	27	31	193	502	20	64	26	38
20	30	26	25	26	26	31	182	448	20	32	25	38
21	30	25	24	26	26	30	173	403	20	20	24	37
22	29	25	24	26	26	29	176	410	20	85	24	35
23	28	25	24	26	26	27	177	406	20	198	23	33
24	28	25	30	27	26	317	176	396	20	216	22	31
25	28	25	30	28	26	313	180	400	21	218	22	29
26	26	25	27	26	27	316	205	410	21	294	22	28
27	28	25	24	26	28	317	211	425	21	302	22	28
28	34	25	24	26	28	312	183	427	21	302	22	28
29	34	25	25	26	-----	315	167	458	21	349	22	28
30	33	24	28	26	-----	327	172	437	21	358	22	28
31	33	-----	30	26	-----	365	-----	437	-----	346	22	-----
TOTAL	877	813	762	820	755	3,236	8,307	12,227	5,761	5,418	4,642	842
MEAN	28.3	27.1	24.6	26.5	27.0	104	277	394	192	175	150	28.1
MAX	35	32	30	30	32	365	379	654	442	358	356	38
MIN	22	24	22	26	24	27	167	75	20	20	22	22
AC-FT	1,740	1,610	1,510	1,630	1,500	6,420	16,480	24,250	11,430	10,750	9,210	1,670
CAL YR 1970: TOTAL	55,634		MEAN 152	MAX 485	MIN 19	AC-FT 110,400						
WAT YR 1971: TOTAL	44,460		MEAN 122	MAX 654	MIN 20	AC-FT 88,190						

MERMENTAU RIVER BASIN

103

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, auxiliary nonrecording gage, Nov. 2, 1950, to Oct. 30, 1957, auxiliary water-stage recorder, Oct. 31, 1957, to Jan. 13, 1958, auxiliary nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 254 cfs (26.33 inches per year, 184,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,230 cfs May 13 (gage height, 17.72 ft); no flow at times.

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 40 cfs after May 13, 1971, which are poor. Small diversion above station. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	1,100	11	562	36	455	345	31	12	178	1,180	0
2	156	767	8.0	469	32	252	154	31	4.8	186	783	3.0
3	117	553	2.2	261	25	537	63	34	3.9	227	680	53
4	23	322	13	128	34	636	29	33	6.6	182	667	119
5	25	103	18	70	374	461	40	42	1.1	112	996	84
6	8.5	74	14	44	605	190	29	48	4.8	100	1,140	38
7	9.5	39	9.8	32	710	101	28	543	1.9	64	985	32
8	5.0	25	4.3	29	778	56	25	895	0	29	642	53
9	3.6	20	6.4	28	701	36	24	799	0	43	465	110
10	3.5	14	12	36	432	422	32	603	18	43	396	116
11	6.5	35	23	90	152	271	51	1,030	56	50	311	227
12	336	30	118	165	857	166	48	3,480	86	54	204	112
13	1,440	39	271	119	1,970	113	39	4,060	69	60	149	42
14	3,010	426	198	119	1,890	70	32	2,730	36	62	154	11
15	3,230	711	125	286	1,110	41	30	1,320	21	33	208	4.8
16	2,400	802	432	1,100	580	30	43	660	8.4	27	104	352
17	1,630	742	510	1,260	237	27	50	311	2.2	27	80	3,080
18	1,090	565	370	829	149	31	41	112	0	32	68	2,950
19	755	310	168	485	70	830	35	52	0	41	56	1,820
20	566	98	108	208	54	2,250	28	18	7.9	44	50	1,380
21	396	79	64	105	41	1,970	30	9.3	28	55	40	897
22	204	46	45	59	60	1,130	27	8.4	33	164	38	466
23	118	35	76	42	101	590	26	3.6	62	357	54	269
24	68	26	236	211	96	229	44	.8	226	442	47	222
25	106	23	150	645	60	130	50	0	191	425	92	218
26	204	18	124	598	213	58	46	43	204	362	86	171
27	257	16	78	363	640	40	41	290	191	305	51	92
28	688	16	51	120	674	32	33	217	189	285	24	49
29	1,110	5.8	48	84	-----	85	19	108	169	304	11	25
30	1,660	10	104	50	-----	598	21	43	177	569	1.2	18
31	1,530	-----	324	36	-----	612	-----	21	-----	1,200	0	-----
TOTAL	21,322.6	7,049.8	3,721.7	8,633	12,681	12,449	1,503	17,576.1	1,809.6	6,062	9,762.2	13,013.8
MEAN	688	235	120	278	453	402	50.1	567	60.3	196	315	434
MAX	3,230	1,100	510	1,260	1,970	2,250	345	4,060	226	1,200	1,180	3,080
MIN	3.5	5.8	2.2	28	25	27	19	0	0	27	0	0
CFSM	5.25	1.79	.92	2.12	3.46	3.07	.38	4.33	.46	1.50	2.40	3.31
IN.	6.05	2.00	1.06	2.45	3.60	3.54	.43	4.99	.51	1.72	2.77	3.70
AC-FT	42,290	13,980	7,380	17,120	25,150	24,690	2,980	34,860	3,590	12,020	19,360	25,810
CAL YR 1970	TOTAL 71,765.9	MEAN 197	MAX 3,230	MIN 2.2	CFSM 1.50	IN 20.38	AC-FT 142,300					
WTR YR 1971	TOTAL 115,583.8	MEAN 317	MAX 4,060	MIN 0	CFSM 2.42	IN 32.82	AC-FT 229,300					

MERMENTAU RIVER BASIN

08011500 Boggy Bayou near Pine Prairie, La.

LOCATION.--Lat 30°47'10", long 92°28'30", in NW 1/4 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. Prior to Dec. 31, 1951, water-stage recorder, Jan. 28, 1952, to Oct. 14, 1958, and Aug. 2, 1961, to Nov. 9, 1965, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--8 years (1948-51, 1966-71), 67.2 cfs (18.11 inches per year, 49,530 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,540 cfs Oct. 12 (gage height, 15.22 ft); no flow June 18-23, 28.

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 fair. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	200	2.0	63	1.1	359	71	.15	3.0	3.1	44	1.7
2	1.9	120	1.7	32	.80	186	23	.07	2.3	2.2	16	2.6
3	.83	70	2.5	18	.62	310	12	0	2.2	1.6	16	1.5
4	.71	40	2.0	12	13	409	8.5	0	2.3	5.3	40	1.0
5	.49	22	1.7	10	153	307	6.0	0	2.2	5.4	35	.71
6	.36	12	1.5	22	106	118	4.3	3.8	2.0	4.3	25	.45
7	.31	7.0	1.4	18	76	38	3.4	85	1.3	3.2	14	.36
8	.32	3.5	1.3	12	107	23	2.7	55	.94	2.7	7.8	.26
9	.54	2.5	1.2	11	70	18	2.0	47	.58	2.4	5.1	.20
10	.54	3.0	1.1	25	36	14	1.8	15	.32	1.3	5.0	.15
11	2.2	2.7	1.7	45	19	12	1.7	155	.15	1.1	5.6	.13
12	2,060	2.3	5.0	49	286	11	1.4	790	.05	2.3	4.8	.13
13	2,620	2.0	3.5	40	494	11	1.2	1,120	.03	1.8	3.8	.11
14	1,050	50	2.0	35	409	9.8	.94	750	.01	.90	3.0	.07
15	527	200	1.5	72	293	8.2	.80	338	.01	.43	2.5	.13
16	171	100	1.3	107	130	6.8	1.7	64	.03	.23	2.3	40
17	22	50	1.2	64	37	6.0	2.8	12	.01	.14	2.1	133
18	9.8	20	3.0	30	21	7.3	2.9	7.0	0	.09	2.4	43
19	7.0	12	4.7	15	14	86	2.2	4.7	0	.06	3.1	211
20	5.1	9.8	5.1	8.5	11	111	1.9	3.8	0	.07	2.9	262
21	4.0	7.0	3.9	4.7	10	70	1.8	3.0	0	2.7	2.4	106
22	3.3	6.8	3.0	3.6	10	27	2.9	2.5	0	8.4	2.0	35
23	3.1	6.2	2.8	3.3	21	15	4.6	2.1	0	6.2	1.7	16
24	38	6.2	2.6	3.0	30	11	3.0	2.1	.13	5.8	1.6	9.1
25	62	7.9	2.1	2.8	17	9.2	2.6	2.1	.20	7.4	1.2	6.6
26	29	10	1.9	3.9	141	7.9	1.7	2.0	.07	7.7	.71	5.8
27	415	7.0	1.6	3.1	395	6.8	1.2	1.9	.01	8.1	.40	5.0
28	2,540	5.0	1.4	2.3	418	5.9	.76	2.3	0	12	.29	4.6
29	1,100	4.0	1.4	1.8	-----	71	.54	2.9	6.6	14	.20	4.6
30	592	3.0	4.1	1.5	-----	245	.32	2.6	6.2	22	.13	4.1
31	350	-----	57	1.4	-----	182	-----	3.0	-----	80	.13	-----
TOTAL	11,619.70	991.9	127.2	719.9	3,319.52	2,701.9	171.66	3,477.02	30.64	212.92	251.16	895.30
MEAN	375	33.1	4.10	23.2	119	87.2	5.72	112	1.02	6.87	8.10	29.8
MAX	2,620	200	57	107	494	409	71	1,120	6.6	80	44	262
MIN	.31	2.0	1.1	1.4	.62	5.9	.32	0	0	.06	.13	.07
CFSM	7.31	.65	.08	.45	2.32	1.70	.11	2.18	.02	.13	.16	.58
IN.	8.42	.72	.09	.52	2.41	1.96	.12	2.52	.02	.15	.18	.65
AC-FT	23,050	1,970	252	1,430	6,580	5,360	340	6,900	61	422	498	1,780
CAL YR 1970	TOTAL 21,166.72	MEAN 58.0	MAX 2,620	MIN 0	CFSM 1.13	IN 15.35	AC-FT 41,980					
WTR YR 1971	TOTAL 24,518.82	MEAN 67.2	MAX 2,620	MIN 0	CFSM 1.31	IN 17.78	AC-FT 48,630					

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-12	1930	15.22	4,540	5-13	0930	13.23	1,220
10-28	0600	14.64	3,380				

MERMENTAU RIVER BASIN

105

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, 0.25 mile downstream from New Orleans, Texas and Mexico Railway Co. bridge, and 2 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).

AVRERAGE DISCHARGE.--33 years, 758 cfs (19.53 inches per year, 549,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 8,800 cfs May 14 (gage height, 23.73 ft); minimum, 14 cfs Oct. 7, 8 (gage height, 1.76 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 except those for period of no gage-height record, which are fair. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1512: 1945-55. WRD La. 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276	3,630	105	800	96	1,970	1,210	56	54	85	901	111
2	130	3,280	100	600	96	1,380	818	64	47	100	924	59
3	67	2,620	100	450	96	1,380	540	65	38	188	806	38
4	39	2,000	100	300	100	1,780	264	52	34	210	852	32
5	24	1,300	105	230	150	1,660	150	43	35	167	1,020	30
6	17	900	105	190	250	1,240	105	59	39	157	1,130	75
7	15	600	110	170	500	984	82	684	39	141	1,060	60
8	14	450	110	160	900	775	71	1,160	52	130	929	62
9	18	300	110	170	1,500	548	72	1,790	47	125	1,100	59
10	21	250	110	270	900	708	81	2,120	38	113	1,040	43
11	26	210	120	350	450	887	72	2,210	68	136	814	46
12	737	180	300	300	2,520	789	69	4,310	118	139	603	61
13	2,880	150	450	250	3,950	494	71	7,260	141	110	436	72
14	5,480	300	330	600	4,730	302	71	8,590	143	96	283	52
15	6,380	1,200	250	1,500	4,160	197	88	8,010	97	81	172	40
16	6,340	1,600	450	3,000	3,250	160	81	6,250	59	69	147	222
17	5,860	1,090	660	3,500	2,430	160	79	4,800	40	64	127	1,160
18	5,160	700	600	3,300	1,770	189	77	3,770	31	62	98	1,640
19	4,340	400	350	2,500	1,120	2,040	83	3,000	35	58	76	1,820
20	3,500	250	250	1,200	497	3,660	97	2,310	68	55	69	1,940
21	2,640	180	220	600	282	3,450	100	1,640	107	80	70	1,700
22	1,840	160	180	350	249	2,430	165	832	100	200	75	1,330
23	832	140	250	250	228	1,440	243	311	83	390	72	917
24	525	130	660	350	209	703	183	161	107	469	143	662
25	586	120	500	500	185	322	127	115	95	510	241	545
26	559	115	370	700	363	197	92	80	68	487	217	487
27	656	110	300	400	1,430	140	79	71	52	455	210	402
28	2,170	105	250	250	2,190	103	88	73	54	611	128	279
29	3,890	105	230	150	-----	180	83	67	90	735	74	160
30	4,470	105	280	120	-----	909	68	65	103	716	53	99
31	4,130	-----	500	100	-----	1,400	-----	55	-----	749	83	-----
TOTAL	63,622	22,680	8,555	23,610	34,601	32,577	5,409	60,073	2,082	7,688	13,953	14,203
MEAN	2,052	756	276	762	1,236	1,051	180	1,938	69.4	248	450	473
MAX	6,380	3,630	660	3,500	4,730	3,660	1,210	8,590	143	749	1,130	1,940
MIN	14	105	100	100	96	103	68	43	31	55	53	30
AC-FT	126,200	44,990	16,970	46,830	68,630	64,620	10,730	119,200	4,130	15,250	27,680	28,170
CAL YR 1970	TOTAL 194,611	MEAN 533	MAX 6,380	MIN 14	AC-FT 386,000							
WTR YR 1971	TOTAL 289,053	MEAN 792	MAX 8,590	MIN 14	AC-FT 573,300							

NOTE.--No gage-height record Nov. 18 to Feb. 12.

CALCASIEU RIVER BASIN

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.--28 years, 682 cfs (18.56 inches per year, 494, 100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,460 cfs Oct. 13 (gage height, 12.9 ft, from floodmark); minimum, 23 cfs July 20 (gage height, 4.09 ft).

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 except those for periods of no gage-height record which are fair. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	500	87	400	110	1,400	960	59	129	33	329	77
2	60	350	84	500	100	1,300	840	56	100	32	414	62
3	48	300	80	450	96	1,200	640	54	83	35	350	53
4	42	250	76	420	92	1,000	500	52	72	45	214	47
5	37	200	72	600	100	1,100	370	51	64	62	161	43
6	33	170	68	500	170	1,200	280	69	58	56	149	40
7	30	150	64	403	250	1,100	230	305	54	49	182	39
8	27	120	60	400	320	1,000	211	332	51	43	242	36
9	26	110	58	477	280	960	177	292	48	38	418	35
10	50	100	56	523	220	920	150	248	46	35	397	35
11	500	95	54	540	200	860	132	227	44	34	294	35
12	1,800	100	58	520	300	720	119	935	42	36	220	34
13	2,000	160	64	500	800	580	109	1,370	40	34	223	33
14	1,500	473	58	470	960	450	103	1,000	39	33	149	35
15	1,100	675	54	500	900	380	97	707	37	31	107	37
16	560	697	58	460	700	350	92	591	36	28	90	47
17	600	691	70	420	600	330	88	516	35	27	76	118
18	560	661	180	350	520	310	86	411	35	25	64	250
19	350	580	200	300	470	350	83	271	35	24	55	220
20	300	446	190	250	450	500	81	387	34	24	50	180
21	250	323	180	220	420	700	84	267	34	27	49	160
22	200	239	170	200	400	800	85	135	33	28	45	200
23	170	179	160	180	410	700	85	104	33	36	43	250
24	150	144	150	170	430	600	87	94	33	60	44	350
25	200	124	140	160	430	540	87	96	32	70	62	330
26	170	112	130	170	600	530	82	96	32	67	122	280
27	500	104	120	190	1,200	560	76	199	31	57	213	220
28	800	97	115	180	1,350	600	70	296	30	54	192	180
29	1,000	92	110	160	-----	760	66	267	33	53	168	150
30	900	89	105	140	-----	900	62	200	37	70	132	120
31	700	-----	150	120	-----	1,000	-----	166	-----	185	99	-----
TOTAL	14,741	8,331	3,221	10,873	12,878	23,700	6,132	9,853	1,410	1,431	5,353	3,696
MEAN	476	278	104	351	460	765	204	318	47.0	46.2	173	123
MAX	2,000	697	200	600	1,350	1,400	960	1,370	129	185	418	350
MIN	26	89	54	120	92	310	62	51	30	24	43	33
CFSM	.95	.56	.21	.70	.92	1.53	.41	.64	.09	.09	.35	.25
IN.	1.10	.62	.24	.81	.96	1.77	.46	.73	.11	.11	.40	.28
AC-FT	29,240	16,520	6,390	21,570	25,540	47,010	12,160	19,540	2,800	2,840	10,620	7,330

CAL YR 1970	TOTAL	100,762	MEAN	276	MAX	2,000	MIN	21	CFSM	.55	IN	7.51	AC-FT	199,900
WTR YR 1971	TOTAL	101,619	MEAN	278	MAX	2,000	MIN	24	CFSM	.56	IN	7.58	AC-FT	201,600

PEAK DISCHARGE (BASE, 4,000 CFS).--No peak above base.

NOTE.--No gage-height record Oct. 9-14, Dec. 3 to Jan. 5, Feb. 26 to Apr. 6.

CALCASIEU RIVER BASIN

107

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). August 1922 to January 1925 water-stage recorder at same site at datum about 2.5 ft higher. September 1938 to August 17, 1939, nonrecording gage at same site and present datum.

AVERAGE DISCHARGE.--35 years, (1922-24, 1938-71), 1,113 cfs (20.07 inches per year, 806,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 13,100 cfs Oct. 13 (gage height, 18.25 ft); minimum, 53 cfs July 20 (gage height, 1.68 ft).
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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	942	160	780	222	4,480	2,540	125	266	78	129	172
2	127	780	145	1,020	206	3,640	1,890	118	229	148	151	153
3	127	707	139	903	195	2,870	1,300	113	204	185	239	133
4	104	660	138	903	184	2,660	1,090	107	176	158	352	118
5	87	580	132	1,120	271	2,940	1,110	104	155	107	422	108
6	78	460	127	1,200	462	3,020	900	115	140	88	358	98
7	72	357	121	1,070	554	2,590	737	220	129	87	274	94
8	69	295	115	873	574	2,270	567	904	119	88	268	90
9	66	264	114	765	532	2,190	467	1,930	114	83	439	90
10	64	240	110	707	499	2,130	401	1,880	110	77	671	86
11	104	219	115	756	485	2,160	358	1,640	106	75	730	83
12	6,780	211	132	834	1,280	2,040	318	3,650	98	71	521	80
13	11,400	236	143	831	2,170	1,740	286	4,950	93	68	407	78
14	7,200	733	138	834	2,440	1,280	261	4,330	90	65	329	75
15	4,930	990	136	1,030	2,340	900	240	3,430	88	67	286	74
16	3,190	1,080	149	915	1,770	738	222	2,520	86	70	252	106
17	1,800	1,060	264	843	1,130	656	210	1,580	85	64	212	158
18	945	864	428	780	915	619	205	1,030	84	59	176	281
19	714	712	431	709	850	798	199	798	84	56	157	489
20	630	654	359	597	812	1,180	191	652	86	56	134	300
21	526	616	335	467	765	1,740	193	491	89	68	122	327
22	431	570	332	373	752	1,910	293	481	85	90	112	368
23	352	496	317	348	793	1,510	290	527	82	76	104	418
24	548	417	300	320	808	1,090	229	347	78	91	103	519
25	560	344	274	320	805	1,000	188	261	74	78	96	599
26	415	296	250	368	1,810	1,020	168	218	71	79	91	663
27	984	256	228	393	3,520	1,100	160	194	69	153	94	614
28	2,940	226	215	364	4,590	1,240	150	240	71	141	112	420
29	2,750	202	205	308	-----	1,480	142	309	73	140	154	304
30	2,080	180	209	271	-----	2,160	134	327	71	160	182	254
31	1,380	-----	418	240	-----	2,600	-----	309	-----	157	186	-----
TOTAL	51,561	15,647	6,679	21,242	31,734	57,751	15,439	33,900	3,305	2,983	7,863	7,352
MEAN	1,663	522	215	685	1,133	1,863	515	1,094	110	96.2	254	245
MAX	11,400	1,080	431	1,200	4,590	4,480	2,540	4,950	266	185	730	663
MIN	64	180	110	240	184	619	134	104	69	56	91	74
CFSM	2.21	.69	.29	.91	1.50	2.47	.68	1.45	.15	.13	.34	.32
IN.	2.55	.77	.33	1.05	1.57	2.85	.76	1.67	.16	.15	.39	.36
AC-FT	102,300	31,040	13,250	42,130	62,940	114,500	30,620	67,240	6,560	5,920	15,600	14,580
CAL YR 1970:	TOTAL 185,015		MEAN 507	MAX 11,400	MIN 36	CFSM .67	IN. 9.14	AC-FT 367,000				
WTR YR 1971:	TOTAL 255,456		MEAN 700	MAX 11,400	MIN 56	CFSM .93	IN. 12.62	AC-FT 506,700				

PEAK DISCHARGE (BASE, 8,000 CFS).--Oct. 13 (0530) 13,100 cfs (18.25 ft).

CALCASIEU RIVER BASIN

08014500 Whisky 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.--32 years, 773 cfs (20.58 inches per year, 560,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,560 cfs Oct. 13 (gage height, 16.23 ft); minimum, 117 cfs Oct. 8 (gage height, 2.62 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, except those for period of no gage-height record which are fair. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	800	160	900	283	1,940	332	155	250	173	216	161
2	168	650	155	780	278	2,890	319	150	235	283	500	159
3	147	580	150	700	268	2,710	306	145	224	221	1,000	155
4	135	510	145	1,000	263	2,420	295	140	217	215	800	150
5	127	460	140	1,400	317	1,930	285	140	211	209	600	152
6	123	420	135	1,250	772	1,370	277	219	206	189	500	150
7	120	370	130	1,050	1,000	986	273	345	200	171	400	149
8	120	330	125	900	735	798	269	966	192	164	700	147
9	123	300	125	760	536	830	264	1,200	190	159	1,300	145
10	120	270	120	700	447	782	273	894	185	154	1,500	143
11	236	240	130	760	380	696	302	830	180	151	1,300	141
12	4,770	220	180	700	1,030	622	278	1,550	178	151	1,000	140
13	5,330	200	160	620	1,980	570	289	1,910	175	170	700	139
14	4,030	500	140	900	1,910	535	300	1,410	172	161	450	138
15	3,270	1,300	130	1,200	1,590	496	272	1,090	170	150	350	138
16	2,250	1,100	200	1,000	1,060	452	251	890	180	145	280	162
17	1,370	850	500	900	685	491	239	471	173	140	230	271
18	741	670	450	724	567	1,370	231	371	173	137	200	260
19	462	530	370	556	502	1,720	226	325	171	134	185	217
20	396	450	310	471	456	1,560	221	325	178	133	172	218
21	360	370	290	416	715	1,130	217	680	175	250	165	210
22	340	310	275	374	1,010	760	300	603	169	200	160	270
23	330	270	265	352	821	680	260	389	170	170	161	450
24	450	240	250	354	624	641	230	324	168	150	180	700
25	500	220	235	454	2,450	592	210	287	166	130	387	1,300
26	450	200	220	510	3,410	520	195	287	163	200	451	1,000
27	1,000	185	205	427	2,940	464	185	332	160	621	433	700
28	2,500	175	200	368	2,220	422	175	358	158	509	281	450
29	2,000	170	200	330	-----	391	165	399	158	320	213	370
30	1,500	165	300	303	-----	366	160	337	164	338	182	330
31	1,100	-----	540	288	-----	347	-----	279	-----	325	167	-----
TOTAL	34,775	13,055	6,935	21,447	29,249	31,481	7,599	17,801	5,511	6,623	15,163	9,115
MEAN	1,122	435	224	692	1,045	1,016	253	574	184	214	489	304
MAX	5,330	1,300	540	1,400	3,410	2,890	332	1,910	250	621	1,500	1,300
MIN	120	165	120	288	263	347	160	140	158	130	160	138
CFSM	2.20	.85	.44	1.36	2.05	1.99	.50	1.13	.36	.42	.96	.60
IN.	2.54	.95	.51	1.56	2.13	2.30	.55	1.30	.40	.48	1.11	.66
AC-FT	68,980	25,890	13,760	42,540	58,020	62,440	15,070	35,310	10,930	13,140	30,080	18,080

CAL YR 1970 TOTAL 137,371 MEAN 376 MAX 5,330 MIN 103 CFSM .74 IN 10.02 AC-FT 272,500
WTR YR 1971 TOTAL 198,754 MEAN 545 MAX 5,330 MIN 120 CFSM 1.07 IN 14.50 AC-FT 394,200

PEAK DISCHARGE (BASE, 3,000 CFS)

NOTE.--No gage-height record Oct. 21 to Jan. 12.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-13	0345	16.23	5,560	2-26	0830	12.53	3,460

CALCASIEU RIVER BASIN

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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.--15 years, 147 cfs (16.64 inches per year, 106,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,240 cfs Oct. 13 (gage height, 15.00 ft); minimum, 12 cfs Sept. 1 (gage height, 1.97 ft).
Period of record: Maximum discharge, 7,090 cfs Nov. 12, 1966 (gage height, 20.79 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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	71	42	340	42	182	161	30	25	21	78	13
2	20	58	42	217	39	229	106	29	23	24	44	14
3	20	52	44	109	37	793	87	27	22	34	81	17
4	19	50	46	90	78	951	79	26	21	34	143	18
5	18	45	45	89	262	438	70	25	20	35	175	17
6	18	42	42	83	181	300	63	51	22	24	121	15
7	20	40	40	70	102	200	57	174	20	21	115	15
8	22	39	38	70	80	137	53	115	20	27	85	18
9	26	61	37	87	64	108	51	76	19	21	58	15
10	26	124	37	119	53	207	49	48	18	21	44	16
11	48	89	38	136	49	184	47	46	18	23	34	18
12	765	63	51	117	234	130	45	121	19	44	34	17
13	1,180	67	68	94	426	107	44	192	18	27	27	20
14	786	277	60	123	274	96	42	125	17	21	23	19
15	213	318	74	245	146	88	41	65	16	19	31	17
16	77	192	222	148	109	77	40	45	18	18	24	26
17	54	101	224	87	96	67	41	38	17	18	19	30
18	44	77	171	73	88	75	45	34	17	17	18	35
19	38	67	91	64	84	298	48	31	20	17	17	34
20	36	59	71	57	239	355	46	30	24	17	17	34
21	37	54	64	52	310	184	49	38	47	20	16	28
22	36	50	60	51	280	106	49	34	34	18	16	30
23	59	46	56	51	206	92	47	30	31	27	16	27
24	306	43	53	53	142	83	41	28	26	27	16	24
25	280	42	49	69	104	75	36	33	22	45	18	22
26	147	41	46	62	345	69	34	41	20	46	21	21
27	152	41	43	52	689	68	33	37	19	56	20	20
28	537	42	40	46	478	64	32	47	18	75	18	19
29	474	42	42	44	-----	291	32	71	18	64	16	19
30	220	42	113	44	-----	838	31	38	23	87	15	18
31	104	-----	299	44	-----	569	-----	29	-----	118	14	-----
TOTAL	5,805	2,335	2,348	2,986	5,237	7,461	1,599	1,754	652	1,066	1,374	636
MEAN	187	77.8	75.7	96.3	187	241	53.3	56.6	21.7	34.4	44.3	21.2
MAX	1,180	318	299	340	689	951	161	192	47	118	175	35
MIN	18	39	37	44	37	64	31	25	16	17	14	13
CFSM	1.56	.65	.63	.80	1.56	2.01	.44	.47	.18	.29	.37	.18
IN.	1.80	.72	.73	.93	1.62	2.31	.50	.54	.20	.33	.43	.20
AC-FT	11,510	4,630	4,660	5,920	10,390	14,800	3,170	3,480	1,290	2,110	2,730	1,260
CAL YR 1970	TOTAL 25,017	MEAN 68.5	MAX 1,180	MIN 13	CFSM .57	IN 7.76	AC-FT 49,620					
WTR YR 1971	TOTAL 33,253	MEAN 91.1	MAX 1,180	MIN 13	CFSM .76	IN 10.31	AC-FT 65,960					

PEAK DISCHARGE (BASED ON 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-13	0615	15.00	1,240	1-10	1930	13.61	942
3-4	0445	14.16	1,030				

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.--31 years (1922-24, 1938-57, 1961-71), 2,470 cfs (1,790,000 acre-ft per year).

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 1971 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	498	3,730	696	1,800	662	10,100	4,820	475	718	298	841	466
2	427	2,380	678	2,100	639	8,950	4,990	448	627	406	892	448
3	399	1,800	663	1,900	621	7,760	3,850	416	561	594	892	409
4	372	1,580	651	2,500	612	7,760	2,470	402	522	527	995	383
5	341	1,430	640	3,000	810	7,230	1,940	392	487	488	1,240	378
6	322	1,290	632	3,500	1,030	6,730	1,700	434	462	460	1,310	375
7	310	1,030	621	2,800	1,540	6,260	1,500	922	434	407	1,140	378
8	286	987	608	2,300	1,660	5,210	1,270	1,210	404	375	997	386
9	303	925	602	2,100	1,390	4,080	1,060	2,510	392	367	1,210	362
10	302	885	625	1,800	1,200	3,620	946	3,140	379	341	1,470	354
11	313	853	821	2,100	1,100	3,550	882	3,550	375	329	1,430	340
12	6,640	950	1,560	1,950	2,800	3,410	794	5,410	367	320	1,250	330
13	21,900	989	1,300	1,810	5,600	3,110	762	7,540	365	307	1,020	320
14	23,800	1,910	1,100	1,770	6,750	2,610	715	8,070	355	315	901	310
15	18,200	3,200	1,000	2,380	6,000	2,050	701	7,340	348	314	926	300
16	13,200	3,070	1,400	2,580	4,930	1,680	652	5,910	348	297	764	320
17	8,740	2,790	1,800	2,380	3,520	1,440	624	4,440	339	286	655	450
18	5,150	2,360	2,300	2,030	2,240	1,440	621	2,700	324	282	565	631
19	2,710	1,920	3,000	1,720	1,700	2,780	612	1,660	331	278	508	1,140
20	1,760	1,590	2,100	1,480	1,540	3,340	585	1,420	331	289	469	1,090
21	1,450	1,440	1,800	1,310	1,490	3,580	609	1,140	360	310	439	1,180
22	1,240	1,340	1,600	1,150	1,770	3,710	642	1,060	355	340	418	1,380
23	1,110	1,230	1,500	1,080	2,030	3,440	663	1,250	353	362	400	1,240
24	1,640	1,110	1,400	1,090	2,040	2,570	642	1,000	346	355	421	1,040
25	2,000	995	1,250	1,050	1,890	2,010	612	774	329	389	484	1,050
26	1,720	908	1,100	1,090	2,540	1,800	558	663	319	392	577	1,050
27	2,600	841	1,000	1,010	5,870	1,750	531	612	315	443	601	1,070
28	6,730	788	950	930	9,070	1,780	504	782	305	557	565	887
29	8,910	752	900	850	-----	1,880	489	886	291	556	504	691
30	7,400	719	1,200	766	-----	2,780	487	862	293	653	487	598
31	5,440	-----	1,500	698	-----	4,090	-----	802	-----	731	502	-----
TOTAL	146,213	45,792	36,997	55,024	73,044	122,500	37,231	68,220	11,735	12,368	24,873	19,356
MEAN	4,717	1,526	1,193	1,775	2,609	3,952	1,241	2,201	391	399	802	645
MAX	23,800	3,730	3,000	3,500	9,070	10,100	4,990	8,				

CALCASIEU RIVER BASIN

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08015500 Calcasieu River near Kinder, La.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.21	10.42	3.85	-----	3.56	15.58	11.98	3.27	3.99	2.56	4.23	2.92
2	2.95	8.00	3.79	-----	3.49	15.12	12.18	3.17	3.75	2.94	4.36	2.86
3	2.84	6.27	3.75	-----	3.43	14.53	10.60	3.06	3.54	3.55	4.35	2.73
4	2.73	6.06	3.72	-----	3.40	14.53	8.20	3.00	3.42	3.31	4.61	2.64
5	2.60	5.71	3.68	-----	3.97	14.21	6.97	2.96	3.31	3.18	5.23	2.62
6	2.52	5.34	3.66	-----	4.59	13.86	6.38	3.11	3.21	3.07	5.39	2.61
7	2.47	4.71	3.62	-----	5.94	13.47	5.89	4.51	3.12	2.87	4.98	2.62
8	2.44	4.59	3.58	-----	6.29	12.42	5.31	5.18	3.01	2.74	4.62	2.65
9	2.44	4.44	3.56	-----	5.57	10.97	4.82	8.26	2.96	2.71	5.16	2.56
10	2.44	4.34	3.62	-----	5.05	10.29	4.55	9.48	2.91	2.60	5.80	2.53
11	2.48	4.26	4.17	-----	4.80	10.17	4.41	10.16	2.89	2.55	5.69	2.51
12	12.72	4.50	6.02	-----	8.32	9.94	4.20	12.58	2.86	2.51	5.24	-----
13	18.38	4.60	7.07	6.60	12.80	9.43	4.12	14.39	2.85	2.46	4.60	-----
14	18.73	6.87	-----	6.55	13.88	8.51	3.99	14.69	2.81	2.49	4.26	-----
15	17.68	9.58	-----	8.02	13.24	7.26	3.95	14.28	2.79	2.49	4.33	-----
16	16.46	9.36	-----	8.45	12.09	6.32	3.82	13.14	2.78	2.42	3.87	-----
17	14.96	8.87	-----	8.04	10.09	5.58	3.74	11.46	2.74	2.37	3.55	3.46
18	12.27	8.00	-----	7.19	7.69	5.72	3.73	8.62	2.68	2.35	3.25	3.46
19	8.64	6.92	-----	6.43	6.38	8.84	3.70	6.28	2.71	2.33	3.06	4.93
20	6.54	6.09	-----	5.81	5.97	9.81	3.62	5.68	2.71	2.38	2.92	4.81
21	5.74	5.73	-----	5.35	5.84	10.21	3.67	4.97	2.83	2.47	2.83	5.07
22	5.23	5.48	-----	4.94	6.55	10.44	3.79	4.77	2.81	2.60	2.76	5.58
23	4.90	5.20	-----	4.74	7.19	9.98	3.85	5.26	2.80	2.69	2.70	5.22
24	6.21	4.89	-----	4.78	7.22	8.40	3.79	4.69	2.77	2.66	2.79	4.67
25	7.11	4.61	-----	4.67	6.84	7.15	3.70	4.15	2.70	2.80	2.97	4.68
26	6.43	4.39	-----	4.76	8.20	6.63	3.53	3.85	2.66	2.81	3.29	4.68
27	8.18	4.23	-----	4.53	13.00	6.49	3.45	3.70	2.64	3.00	3.37	4.74
28	13.73	4.10	-----	4.32	15.15	6.58	3.37	4.17	2.60	3.41	3.25	4.22
29	15.10	4.00	-----	4.08	-----	6.83	3.32	4.42	2.54	3.40	3.08	3.65
30	14.28	3.91	-----	3.86	-----	8.79	3.31	4.36	2.55	3.71	2.99	3.36
31	12.65	-----	-----	3.69	-----	10.98	-----	4.22	-----	3.94	3.04	-----
MAX	18.73	10.42	-----	-----	15.15	15.58	12.18	14.69	3.99	3.94	5.80	-----
MIN	2.44	3.91	-----	-----	3.40	5.58	3.31	2.96	2.54	2.33	2.70	-----

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.--26 years, 191 cfs (17.53 inches per year, 138,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,680 cfs Oct. 27 (gage height, 21.81 ft); minimum, 0.85 cfs July 20 (gage height, 1.11 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 1971 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	810	12	60	17	640	29	4.8	4.6	1.2	5.5	33
2	3.4	419	12	61	16	686	38	4.5	4.1	1.1	14	12
3	2.4	90	12	91	14	878	28	4.2	3.7	19	83	3.8
4	2.0	46	13	73	38	490	23	3.9	3.3	11	221	2.8
5	1.6	33	12	48	644	449	19	3.7	3.0	6.4	274	9.6
6	1.4	26	11	34	554	522	17	45	2.7	4.3	174	9.0
7	1.3	21	11	29	505	599	14	93	2.4	2.7	283	4.1
8	1.7	18	10	34	393	472	12	32	2.2	2.1	299	2.9
9	7.4	18	10	40	196	159	11	92	2.0	1.6	122	2.6
10	4.4	26	10	53	93	89	11	101	1.8	2.6	48	2.3
11	234	49	14	74	56	71	9.8	999	1.7	2.9	26	2.4
12	2,850	36	30	69	1,170	105	9.4	554	1.7	2.4	23	3.1
13	1,780	89	16	62	912	175	8.8	213	1.6	1.8	14	2.7
14	870	517	13	324	534	131	8.8	92	1.6	1.6	11	2.0
15	399	403	27	582	396	77	8.6	86	1.6	1.5	8.1	1.7
16	189	301	40	296	210	54	8.1	52	1.7	1.3	6.4	8.1
17	66	263	31	243	97	43	8.1	28	1.8	1.3	5.4	11
18	34	207	32	238	60	117	8.1	19	1.8	1.1	4.5	61
19	22	95	76	141	46	333	7.9	14	7.2	.96	4.1	201
20	15	49	76	64	38	137	7.5	13	4.9	.96	3.9	52
21	11	35	44	43	36	142	7.9	11	3.3	.96	5.1	19
22	8.4	28	30	34	102	131	7.9	8.3	3.0	1.0	3.6	11
23	59	24	49	43	150	82	7.3	7.0	3.1	.96	2.9	8.3
24	274	20	115	151	139	48	6.8	6.6	2.4	.96	3.8	8.5
25	220	18	38	104	117	36	7.9	9.2	1.6	1.1	11	5.3
26	146	16	24	55	1,370	31	9.8	11	1.4	3.0	4.9	3.6
27	3,740	14	18	38	1,670	26	8.5	8.5	1.4	2.1	3.1	2.6
28	4,250	14	16	28	899	24	7.2	7.0	1.3	2.1	2.4	2.4
29	1,880	14	27	24	-----	23	6.3	7.3	1.3	2.1	2.1	1.7
30	1,300	13	92	21	-----	22	5.4	6.8	1.2	3.8	1.8	1.6
31	972	-----	105	19	-----	20	-----	5.7	-----	5.7	3.3	-----
TOTAL	19,350.1	3,712	1,026	3,176	10,472	6,812	362.1	2,542.5	75.4	91.60	1,673.9	491.1
MEAN	624	124	33.1	102	374	220	12.1	82.0	2.51	2.95	54.0	16.4
MAX	4,250	810	115	582	1,670	878	38	999	7.2	19	299	201
MIN	1.3	13	10	19	14	20	5.4	3.7	1.2	.96	1.8	1.6
CFSM	4.22	.84	.22	.69	2.53	1.49	.08	.55	.02	.02	.36	.11
IN.	4.86	.93	.26	.80	2.63	1.71	.09	.64	.02	.02	.42	.12
AC-FT	38,380	7,360	2,040	6,300	20,770	13,510	718	5,040	150	182	3,320	974
CAL YR 1970	TOTAL 37,452.03	MEAN 103	MAX 4,250	MIN .60	CFSM .70	IN 9.41	AC-FT 74,290					
WTR YR 1971	TOTAL 49,784.70	MEAN 136	MAX 4,250	MIN .96	CFSM .92	IN 12.51	AC-FT 98,750					

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-12	1230	19.58	3,630	2-27	0030	17.33	1,970
10-27	1930	21.81	5,680				

CALCASIEU RIVER BASIN

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08016800 Bear Head Creek near Starks, La.

LOCATION.--Lat 30°19'59" (revised), 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.--15 years, 216 cfs (16.57 inches per year, 156,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 11,200 cfs Oct. 28 (gage height, 17.63 ft); no flow June 13-16, July 25, 26.
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. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 2122: 1958(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	2,830	11	73	16	1,300	9.2	1.2	3.7	.32	.11	3.2
2	70	1,830	11	80	13	1,110	8.5	.90	2.2	.20	.10	2.7
3	23	1,160	10	91	11	861	9.5	.66	1.3	.16	5.1	2.5
4	11	570	11	82	19	636	8.1	.44	.84	.13	13	1.8
5	6.7	198	12	58	188	451	6.7	.32	.48	.10	78	1.5
6	5.7	107	13	40	513	355	5.3	3.9	.28	.06	164	1.3
7	4.6	68	12	31	698	343	4.9	38	.17	.03	211	1.2
8	4.7	47	11	29	742	71	4.2	71	.13	.04	248	1.6
9	7.8	38	10	30	630	64	3.5	71	.10	.03	270	1.5
10	4.7	95	9.7	34	452	46	2.9	78	.07	.01	214	1.6
11	74	95	10	46	241	98	2.4	240	.04	.15	156	1.5
12	1,600	63	12	63	421	306	2.0	435	.01	.14	58	.96
13	3,200	75	12	73	1,040	185	1.8	539	0	.16	19	.66
14	2,960	106	14	123	1,170	119	1.6	383	0	.18	12	.52
15	2,340	127	15	226	944	71	1.5	233	0	.16	7.5	.40
16	1,840	165	17	364	669	44	1.3	130	0	.24	4.8	3.2
17	1,340	185	23	407	374	31	1.7	60	35	.20	2.9	11
18	783	203	22	321	192	23	1.7	29	26	.16	1.6	33
19	253	207	23	216	100	18	1.4	15	7.8	.12	1.1	70
20	87	165	33	155	66	50	1.4	8.5	3.4	.08	.72	107
21	39	80	37	74	60	500	1.6	5.1	1.8	.07	.52	146
22	25	41	33	41	62	350	1.4	3.2	1.3	.04	.40	139
23	24	30	36	33	69	200	1.3	1.9	.90	.02	.36	96
24	65	24	55	30	98	100	1.4	1.7	.72	.01	.78	46
25	135	20	41	58	95	60	1.5	1.7	.48	0	32	24
26	153	17	33	81	429	40	2.4	1.1	.32	0	6.7	14
27	2,430	15	28	72	1,250	30	4.6	.84	.32	.13	2.0	9.9
28	9,990	13	22	48	1,440	20	3.9	.66	.28	.10	26	7.8
29	9,390	12	20	33	-----	15	2.7	2.7	.20	.03	34	4.9
30	6,950	11	29	25	-----	12	1.8	5.6	.24	.08	13	3.1
31	4,300	-----	53	20	-----	10	-----	4.6	-----	.13	5.6	-----
TOTAL	48,229.2	8,597	678.7	3,057	12,002	7,519	102.2	2,367.02	88.08	3.28	1,588.29	737.84
MEAN	1,556	287	21.9	98.6	429	243	3.41	76.4	2.94	.11	51.2	24.6
MAX	9,990	2,830	55	407	1,440	1,300	9.5	539	35	.32	270	146
MIN	4.6	11	9.7	20	11	10	1.3	.32	0	0	.10	.40
CFSM	8.79	1.62	.12	.56	2.42	1.37	.02	.43	.02	.0006	.29	.14
IN.	10.14	1.81	.14	.64	2.52	1.58	.02	.50	.02	0	.33	.16
AC-FT	95,660	17,050	1,350	6,060	23,810	14,910	203	4,690	175	6.5	3,150	1,460
CAL YR 1970	TOTAL 68,167.68	MEAN 187	MAX 9,990	MIN .03	CFSM 1.06	IN 14.33	AC-FT 135,200					
WTR YR 1971	TOTAL 84,969.61	MEAN 233	MAX 9,990	MIN 0	CFSM 1.32	IN 17.85	AC-FT 168,500					

SABINE RIVER BASIN

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.--33 years, 2,410 cfs (1,746,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7,490 cfs Oct. 30 (gage height, 17.24 ft); minimum observed, 6.7 cfs July 24.
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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	5,190	614	737	633	1,750	432	398	138	38	1,010	96
2	192	4,370	548	711	616	1,730	398	338	138	41	1,130	142
3	237	3,680	478	667	605	1,670	360	296	136	43	1,350	109
4	332	3,170	435	677	616	1,620	340	262	137	49	1,530	85
5	308	2,850	408	723	696	1,540	320	241	134	42	1,670	75
6	252	2,590	390	681	745	1,440	304	225	124	38	1,850	73
7	203	2,300	368	660	725	1,380	298	221	117	35	1,970	66
8	203	1,930	350	621	737	1,340	282	246	117	33	1,850	62
9	212	1,590	342	590	737	1,330	262	246	112	28	1,340	56
10	200	1,680	350	632	700	1,350	256	228	109	22	755	60
11	200	1,610	336	671	690	1,400	250	262	109	26	428	60
12	201	1,270	344	633	756	1,310	249	376	93	26	320	50
13	245	993	346	583	1,050	1,250	245	415	81	25	290	44
14	294	1,110	344	599	1,200	1,110	239	508	68	24	249	46
15	310	1,690	346	651	1,180	1,060	234	986	49	24	225	50
16	482	1,750	388	669	1,170	1,000	230	1,400	45	23	196	68
17	612	1,560	498	664	1,150	844	236	1,650	45	21	184	142
18	785	1,400	545	659	1,190	703	316	1,710	42	20	173	131
19	1,010	1,270	555	652	1,580	619	418	1,430	42	19	152	106
20	1,280	1,240	746	645	2,050	599	445	914	38	17	138	132
21	1,560	1,310	1,340	636	2,150	548	478	522	29	15	181	96
22	1,800	1,190	1,580	642	2,020	505	472	328	27	14	302	75
23	2,000	997	1,610	656	1,840	470	452	258	37	7.7	346	200
24	2,240	795	1,510	659	1,450	440	500	225	78	6.7	320	360
25	2,400	626	1,210	671	1,140	418	520	184	68	9.1	254	276
26	2,380	535	919	685	1,230	418	450	169	48	21	200	177
27	3,070	502	735	662	1,630	420	408	155	49	618	182	171
28	5,230	508	629	648	1,770	408	398	148	41	1,250	152	218
29	6,790	581	591	651	-----	460	432	144	37	1,170	132	502
30	7,290	650	600	663	-----	548	438	142	37	1,020	125	515
31	6,230	-----	646	659	-----	490	-----	143	-----	962	101	-----
TOTAL	48,775	50,937	20,101	20,357	32,056	30,170	10,662	14,770	2,325	5,687.5	19,105	4,243
MEAN	1,573	1,698	648	657	1,145	973	355	476	77.5	183	616	141
MAX	7,290	5,190	1,610	737	2,150	1,750	520	1,710	138	1,250	1,970	515
MIN	192	502	336	583	605	408	230	142	27	6.7	101	44
AC-FT	96,750	101,000	39,870	40,380	63,580	59,840	21,150	29,300	4,610	11,280	37,890	8,420
CAL YR 1970	TOTAL 787,649		MEAN 2,158		MAX 11,200		MIN 24		AC-FT 1,562,000			
WTR YR 1971	TOTAL 259,188.5		MEAN 710		MAX 7,290		MIN 6.7		AC-FT 514,100			

SABINE RIVER BASIN

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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, 23.32 ft Nov. 1; minimum, 20.81 ft July 20.

Period of gage-height record 1968-71: Maximum gage height, 32.50 ft Apr. 20, 1969; minimum since initial filling of Toledo Bend Reservoir in June 1968, 19.12 ft Nov. 14, 1969.

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 on 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. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.06	23.32	22.43	22.45	21.65	22.11	21.90	21.87	22.33	21.48	21.28	21.25
2	21.01	23.29	22.50	22.50	21.65	22.01	21.90	21.86	22.33	21.50	21.35	21.27
3	20.96	23.13	22.47	22.50	21.71	21.94	21.98	21.84	22.24	21.48	21.46	21.26
4	20.96	22.79	22.45	22.30	21.64	22.10	21.89	21.90	22.15	21.46	21.53	21.23
5	21.01	22.54	22.44	22.28	21.65	22.14	21.80	21.95	22.09	21.46	21.58	21.21
6	21.00	22.46	22.42	22.21	21.65	21.84	21.82	21.97	22.09	21.42	21.57	21.19
7	21.00	22.34	22.42	22.18	21.53	21.85	21.86	21.90	22.02	21.39	21.59	21.13
8	20.99	22.35	22.42	22.18	21.62	21.93	21.95	21.88	22.00	21.38	21.62	21.08
9	20.95	22.25	22.40	22.23	21.59	21.99	21.88	21.87	22.01	21.37	21.61	21.03
10	20.96	22.23	22.35	22.22	21.70	21.86	21.88	21.91	21.96	21.41	21.60	21.10
11	21.10	22.26	22.26	22.22	21.73	21.94	21.91	22.30	21.88	21.31	21.53	21.08
12	21.18	22.22	22.25	22.18	21.49	21.91	21.93	22.68	21.78	21.26	21.48	21.07
13	21.17	22.28	22.26	22.18	21.65	21.92	21.85	22.64	21.72	21.26	21.45	21.08
14	21.15	22.27	22.36	22.12	21.78	21.98	21.82	22.61	21.73	21.21	21.40	21.07
15	21.14	22.40	22.39	22.00	21.77	21.88	21.90	22.54	21.73	21.14	21.34	21.10
16	21.12	22.51	22.27	22.08	21.82	21.87	21.94	22.51	21.74	21.10	21.33	21.02
17	21.11	22.56	22.26	22.07	21.80	21.92	21.91	22.60	21.71	21.03	21.33	21.01
18	21.11	22.49	22.23	21.93	21.87	21.83	21.92	22.65	21.70	21.07	21.32	21.06
19	21.16	22.50	22.21	21.87	21.89	21.79	21.95	22.51	21.62	20.93	21.32	20.99
20	21.19	22.42	22.30	21.95	22.15	21.84	21.88	22.45	21.62	20.83	21.33	21.00
21	21.24	22.50	22.55	21.95	22.42	21.93	21.93	22.45	21.60	20.84	21.33	21.00
22	21.32	22.43	22.76	21.87	22.48	21.80	22.04	22.50	21.68	20.91	21.28	20.98
23	21.42	22.26	22.80	21.82	22.37	21.79	21.88	22.46	21.67	20.93	21.21	21.00
24	21.47	22.38	22.75	21.82	22.23	21.88	21.83	22.40	21.65	20.91	21.20	21.01
25	21.57	22.50	22.67	21.85	22.04	21.74	21.88	22.43	21.65	20.94	21.20	21.04
26	21.65	22.47	22.56	21.80	21.98	21.85	22.00	22.47	21.62	20.91	21.18	21.05
27	21.76	22.40	22.50	21.77	22.01	21.94	21.95	22.42	21.64	20.99	21.17	21.04
28	22.09	22.38	22.44	21.74	22.09	21.90	21.87	22.36	21.54	21.01	21.12	21.04
29	22.52	22.38	22.37	21.74	-----	21.84	21.85	22.33	21.54	21.20	21.11	20.95
30	22.85	22.45	22.36	21.68	-----	21.95	21.86	22.34	21.54	21.48	21.18	20.96
31	23.13	-----	22.37	21.65	-----	22.13	-----	22.34	-----	21.30	21.23	-----
MEAN	21.37	22.49	22.43	22.04	21.86	21.92	21.90	22.29	21.82	21.19	21.36	21.08
MAX	23.13	23.32	22.80	22.50	22.48	22.14	22.04	22.68	22.33	21.50	21.62	21.27
MIN	20.95	22.22	22.21	21.65	21.49	21.74	21.80	21.84	21.54	20.83	21.11	20.95
CAL YR 1970	MEAN	5.57	MAX	26.85	MIN	20.95						
WTR YR 1971	MEAN	21.81	MAX	23.32	MIN	20.83						

08023000 Bayou Castor near Logansport, La.

LOCATION.--Lat 31°58'25", long 93°58'10", in NE¼ sec.1, T.11 N., R.16 W., De Soto Parish, near center of span on downstream side of bridge on U. S. Highway 84, 1.7 miles east of Logansport, and 2.5 miles upstream from Bayou Grand Cane.

DRAINAGE AREA.--96.5 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 171.20 ft above mean sea level. Prior to Nov. 4, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 69.3 cfs (9.75 inches per year, 50,210 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 948 cfs July 30 (gage height, 10.10 ft); no flow many days.
Period of record: Maximum discharge, 8,030 cfs Apr. 6, 1956 (gage height, 23.33 ft); no flow at times most years.

REMARKS.--Records good. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	5.7	1.6	9.0	2.7	29	3.9	1.0	1.9	.31	14	.65
2	.23	3.5	1.7	11	2.6	17	3.5	1.0	1.8	2.3	6.3	.55
3	.14	2.3	2.0	7.8	2.6	12	3.5	.85	1.7	2.2	3.9	.43
4	.07	1.4	2.2	6.6	2.8	9.1	3.6	.70	1.5	1.1	3.0	.37
5	.04	1.2	2.2	5.7	3.0	7.3	3.4	.52	1.4	.70	2.4	.29
6	.01	.98	2.4	5.0	3.6	6.2	3.2	.52	1.1	.49	2.8	.24
7	.01	.74	2.5	4.7	4.1	5.6	3.4	.65	1.0	.37	2.4	.17
8	.12	.56	2.3	4.4	3.9	4.9	2.8	.52	1.0	.29	2.0	.13
9	.35	.47	2.3	4.1	3.7	4.7	2.6	.49	.95	.19	1.6	.07
10	.92	8.7	2.2	4.2	3.6	5.2	2.6	4.1	.75	.13	1.3	.06
11	2.8	25	2.3	4.7	3.5	6.5	2.5	117	.60	.08	1.0	.05
12	4.1	13	2.2	5.0	4.4	5.8	2.3	546	.52	.04	.95	.04
13	4.2	8.5	2.2	5.2	5.6	5.0	2.3	660	.46	.01	.80	.02
14	5.7	22	2.1	5.0	8.8	4.8	2.2	399	.43	0	.65	.01
15	4.6	63	2.2	4.8	12	4.6	2.1	59	.49	0	.55	.01
16	3.0	41	2.4	4.4	12	4.2	2.0	25	.49	0	.49	.01
17	1.9	22	2.4	4.2	12	3.9	2.1	15	.40	0	.55	.01
18	1.2	14	2.5	4.0	22	3.6	1.9	11	.37	0	.49	0
19	1.1	9.5	2.7	3.7	42	3.8	2.0	8.6	1.8	0	.46	.01
20	.98	6.9	3.0	3.5	73	4.7	2.2	20	2.0	0	.46	.01
21	.74	5.6	4.4	3.5	56	4.9	2.2	15	1.3	0	.40	.01
22	.56	4.6	6.5	3.4	43	4.5	2.3	7.8	2.2	0	.31	.02
23	.86	3.7	6.9	3.5	28	4.2	2.7	5.6	2.3	0	.29	.01
24	1.9	2.8	6.6	4.0	19	4.0	2.2	4.7	1.4	0	.26	.01
25	3.9	2.6	7.0	3.9	14	3.7	1.8	4.4	.95	0	.43	.01
26	6.6	2.4	5.6	3.7	26	3.6	1.7	3.8	.70	0	1.3	.01
27	6.7	2.2	4.5	2.8	64	3.5	1.6	3.2	.55	0	9.5	.01
28	11	2.0	3.9	2.8	56	3.5	1.4	2.9	.46	0	4.8	.02
29	27	1.8	3.7	3.0	-----	3.5	1.4	2.5	.40	30	2.2	.02
30	26	1.6	3.8	2.9	-----	3.5	1.2	2.2	.37	446	1.4	0
31	12	-----	5.6	2.8	-----	3.8	-----	2.2	-----	50	.85	-----
TOTAL	129.05	279.75	103.9	143.3	533.9	190.6	72.6	1,925.25	31.29	534.21	67.84	3.25
MEAN	4.16	9.32	3.35	4.62	19.1	6.15	2.42	62.1	1.04	17.2	2.19	.11
MAX	27	63	7.0	11	73	29	3.9	660	2.3	446	14	.65
MIN	.01	.47	1.6	2.8	2.6	3.5	1.2	.49	.37	0	.26	0
CFSM	.04	.10	.04	.05	.20	.06	.02	.64	.01	.18	.02	.001
IN.	.05	.11	.04	.06	.21	.07	.03	.74	.01	.21	.03	.001
AC-FT	256	555	206	284	1,060	378	144	3,820	62	1,060	135	6.4

CAL YR 1970: TOTAL 10,717.63 MEAN 29.4 MAX 735 MIN 0 CFSM .30 IN. 4.13 AC-FT 21,260
WTR YR 1971: TOTAL 4,014.94 MEAN 11.0 MAX 660 MIN 0 CFSM .11 IN. 1.56 AC-FT 7,960

PEAK DISCHARGE (BASE, 1,000 CFS).--No peak above base.

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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.

PERIOD OF RECORD.--Gage-height record, October 1966 to January 1968, December 1968 to current year (published as Toledo Bend Reservoir near Milan, December 1968 to September 1970). Discharge record, October 1923 to September 1925 (published as "Sabine River at Sabinetown"), January 1939 to September 1966.

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.

GAGE HEIGHT, IN FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.72	71.42	72.12	72.10	71.30	71.65	71.60	71.58	71.97	71.23	70.94	70.93
2	70.70	71.53	72.14	72.12	71.31	71.62	71.67	71.58	71.90	71.22	71.02	70.92
3	70.67	71.52	72.14	72.07	71.30	71.60	71.65	71.55	71.83	71.19	71.05	70.90
4	70.65	71.58	72.14	72.06	71.33	71.59	71.67	71.54	71.75	71.18	71.10	70.87
5	70.64	71.61	72.14	72.00	71.35	71.55	71.65	71.54	71.72	71.15	71.10	70.87
6	70.67	71.65	72.13	71.95	71.37	71.55	71.64	71.58	71.71	71.15	71.12	70.87
7	70.67	71.69	72.10	71.91	71.28	71.53	71.61	71.57	71.70	71.13	71.14	70.82
8	70.72	71.75	72.07	71.89	71.25	71.50	71.61	71.57	71.68	71.10	71.15	70.82
9	70.68	71.81	72.05	71.90	71.37	71.47	71.61	71.55	71.66	71.08	71.14	70.79
10	70.67	71.83	72.03	71.91	71.38	71.50	71.61	71.58	71.55	71.05	71.13	70.80
11	70.87	71.82	72.01	71.85	71.37	71.50	71.61	71.70	71.47	71.04	71.12	70.80
12	70.94	71.85	72.03	71.85	71.36	71.50	71.60	71.80	71.45	71.03	71.11	70.79
13	70.93	71.98	72.01	71.82	71.41	71.51	71.60	71.90	71.45	70.98	71.10	70.77
14	70.91	71.97	72.00	71.80	71.42	71.53	71.60	71.94	71.42	70.92	71.09	70.76
15	70.87	72.00	72.00	71.75	71.43	71.55	71.60	71.98	71.43	70.85	71.08	70.77
16	70.84	72.02	71.96	71.75	71.44	71.55	71.57	72.03	71.43	70.75	71.07	70.73
17	70.85	72.04	71.94	71.75	71.43	71.55	71.60	72.04	71.35	70.73	71.07	70.71
18	70.85	72.05	71.92	71.63	71.41	71.55	71.60	72.05	71.30	70.70	71.06	70.71
19	70.87	72.06	71.94	71.58	71.45	71.57	71.62	72.02	71.30	70.59	71.06	70.76
20	70.87	72.08	72.00	71.55	71.45	71.57	71.63	72.08	71.32	70.58	71.03	70.77
21	70.89	72.10	71.97	71.53	71.46	71.59	71.63	72.09	71.31	70.56	71.00	70.76
22	70.90	72.07	72.00	71.50	71.48	71.58	71.63	72.08	71.37	70.58	71.00	70.74
23	71.00	71.96	71.96	71.52	71.50	71.57	71.60	72.07	71.37	70.55	70.98	70.74
24	71.02	72.06	72.03	71.55	71.47	71.59	71.60	72.13	71.35	70.60	70.98	70.73
25	71.04	72.06	72.05	71.53	71.47	71.59	71.60	72.13	71.33	70.63	70.98	70.73
26	71.06	72.08	72.07	71.50	71.57	71.60	71.61	72.12	71.31	70.62	70.95	70.73
27	71.16	72.08	72.10	71.45	71.62	71.60	71.61	72.10	71.29	70.68	70.93	70.73
28	71.24	72.09	72.10	71.42	71.60	71.62	71.60	72.05	71.27	70.72	70.88	70.69
29	71.28	72.10	72.06	71.40	-----	71.67	71.59	72.03	71.27	70.76	70.88	70.62
30	71.33	72.12	72.11	71.40	-----	71.66	71.59	72.02	71.24	70.90	70.87	70.60
31	71.39	-----	72.09	71.36	-----	71.65	-----	72.01	-----	70.91	70.94	-----
MAX	71.39	72.12	72.14	72.12	71.62	71.67	71.67	72.13	71.97	71.23	71.15	70.93
MIN	70.64	71.42	71.92	71.36	71.25	71.47	71.57	71.54	71.24	70.55	70.87	70.60
CAL YR 1970	MAX	73.54	MIN	70.18								
WTR YR 1971	MAX	72.14	MIN	70.55								

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 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 mean sea level (levels by Sabine River Authority). Prior to July 20, 1967, nonrecording gage read once daily at same site and datum.

EXTREMES.--Current year: Maximum contents, 4,207,000 acre-ft Nov. 23 (elevation, 170.49 ft); minimum, 3,887,000 acre-ft July 23, 24 (elevation, 168.60 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, 3,617,000 acre-ft Nov. 16, 17, 1969 (elevation, 166.93 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 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.....	100.0	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)

168.6	3,887,000	170.0	4,123,000
169.5	4,037,000	170.5	4,209,000

CONTENTS, IN THOUSANDS OF ACRE-Feet, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,927	4,075	4,170	4,157	4,047	4,087	4,109	4,078	4,132	4,002	3,972	3,967
2	3,923	4,080	4,170	4,154	4,032	4,114	4,098	4,080	4,109	4,001	3,980	3,962
3	3,920	4,073	4,175	4,199	4,029	4,098	4,092	4,078	4,106	4,002	3,985	3,962
4	3,915	4,080	4,175	4,187	4,059	4,059	4,096	4,052	4,096	4,004	3,990	3,962
5	3,908	4,089	4,177	4,170	4,039	4,059	4,099	4,057	4,094	3,996	3,996	3,962
6	3,912	4,087	4,175	4,155	4,046	4,078	4,089	4,062	4,082	4,001	3,997	3,958
7	3,912	4,094	4,164	4,148	4,084	4,071	4,089	4,069	4,082	3,990	4,002	3,953
8	3,928	4,103	4,152	4,126	4,046	4,054	4,075	4,071	4,080	3,984	4,007	3,950
9	3,923	4,123	4,154	4,128	4,042	4,062	4,084	4,068	4,075	3,978	4,012	3,950
10	3,913	4,125	4,148	4,132	4,029	4,062	4,084	4,080	4,052	3,973	4,011	3,951
11	3,950	4,137	4,173	4,128	4,035	4,057	4,078	4,098	4,042	3,972	4,012	3,950
12	3,973	4,125	4,157	4,128	4,069	4,049	4,076	4,133	4,042	3,970	4,016	3,947
13	3,970	4,166	4,152	4,123	4,047	4,061	4,082	4,132	4,042	3,968	4,016	3,945
14	3,970	4,177	4,147	4,118	4,037	4,071	4,084	4,135	4,039	3,960	4,004	3,937
15	3,975	4,152	4,140	4,109	4,049	4,071	4,076	4,143	4,040	3,951	4,002	3,928
16	3,963	4,145	4,148	4,104	4,046	4,078	4,071	4,147	4,040	3,928	4,001	3,940
17	3,958	4,154	4,135	4,111	4,046	4,059	4,075	4,140	4,019	3,927	3,997	3,934
18	3,958	4,159	4,132	4,106	4,035	4,123	4,080	4,140	4,009	3,918	3,994	3,934
19	3,960	4,170	4,140	4,078	4,047	4,078	4,078	4,157	4,012	3,903	3,987	3,955
20	3,958	4,166	4,148	4,054	4,054	4,069	4,087	4,166	4,018	3,901	3,977	3,947
21	3,955	4,157	4,140	4,062	4,071	4,069	4,084	4,145	4,026	3,901	3,972	3,945
22	3,956	4,189	4,140	4,062	4,062	4,094	4,076	4,152	4,032	3,897	3,970	3,942
23	3,978	4,187	4,166	4,064	4,061	4,089	4,099	4,145	4,031	3,887	3,968	3,940
24	3,978	4,154	4,148	4,078	4,059	4,076	4,085	4,161	4,024	3,901	3,973	3,937
25	3,980	4,143	4,166	4,071	4,059	4,098	4,082	4,161	4,023	3,906	3,973	3,930
26	3,984	4,157	4,159	4,066	4,099	4,080	4,078	4,154	4,021	3,908	3,970	3,928
27	4,029	4,162	4,157	4,054	4,082	4,075	4,082	4,152	4,016	3,913	3,968	3,928
28	4,024	4,166	4,162	4,054	4,080	4,089	4,080	4,147	4,016	3,927	3,970	3,922
29	4,026	4,166	4,159	4,047	-----	4,101	4,087	4,145	4,011	3,937	3,965	3,913
30	4,029	4,162	4,175	4,051	-----	4,089	4,085	4,138	4,007	3,973	3,955	3,912
31	4,042	-----	4,162	4,057	-----	4,078	-----	4,133	-----	3,970	3,970	-----
(†)	169.53	170.23	170.23	169.62	169.75	169.74	169.78	170.06	169.32	169.10	160.10	168.75
(*)	+110,000	+120,000	0	-105,000	+23,000	-2,000	+7,000	+48,000	-126,000	-37,000	0	-58,000
MAX	4,042	4,189	4,177	4,199	4,099	4,123	4,109	4,166	4,132	4,004	4,016	3,967
MIN	3,908	4,073	4,132	4,047	4,029	4,049	4,071	4,052	4,007	3,887	3,955	3,912
CAL YR 1970.....	* +323,000			MAX 4,440			MIN 3,839					
WTR YR 1971.....	* -20,000			MAX 4,199			MIN 3,887					

† Elevation, in feet, at end of month.

* Change in contents, in acre-feet.

SABINE RIVER BASIN

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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.--16 years, 111 cfs (10.18 inches per year, 80,420 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 788 cfs Feb. 26 (gage height, 8.35 ft); minimum, 2.1 cfs Oct. 5, 6; minimum gage height, 2.51 ft July 19, 20.

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 1971 are published in Part 2 of this report.

REVISION.--WSP 1922: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	16	21	104	13	102	23	7.1	7.1	3.5	78	6.2
2	2.4	13	24	59	12	115	27	6.8	6.6	5.8	76	5.5
3	2.4	12	24	42	12	149	22	6.6	6.0	7.3	376	21
4	2.2	10	25	37	13	101	21	6.5	5.5	6.0	228	18
5	2.2	10	25	32	20	63	19	6.2	5.2	5.5	80	10
6	2.2	10	25	29	22	48	17	6.9	4.7	4.8	96	7.9
7	2.8	9.7	24	26	21	41	16	10	4.3	4.3	109	6.2
8	2.4	9.3	24	26	18	34	15	9.2	4.2	4.0	40	5.5
9	3.7	10	24	27	16	30	14	10	4.1	3.8	62	5.0
10	2.8	21	24	33	16	36	14	9.3	3.8	3.6	261	4.7
11	7.0	32	28	40	14	46	13	18	3.7	3.5	52	5.0
12	106	20	40	43	29	40	13	51	3.6	3.5	24	5.2
13	200	19	41	38	29	33	13	109	3.5	3.6	17	5.5
14	53	139	35	33	33	30	12	51	3.3	3.4	28	5.1
15	21	157	30	29	26	26	11	27	3.2	3.2	19	5.0
16	14	66	29	26	22	23	11	18	3.3	3.1	15	5.0
17	10	39	28	24	20	20	12	14	3.4	2.9	13	4.6
18	8.7	29	31	22	18	46	13	11	3.2	2.8	10	6.0
19	8.4	24	30	21	18	122	12	9.3	3.3	2.8	8.5	9.7
20	8.2	21	193	19	18	84	13	25	3.4	2.7	7.7	8.7
21	7.9	18	427	19	30	52	12	16	6.7	2.7	7.2	7.3
22	8.9	17	194	19	64	40	11	14	5.2	2.8	6.7	8.0
23	9.7	16	75	21	70	34	10	11	4.3	3.4	6.5	8.9
24	16	15	49	24	42	30	9.7	12	3.6	4.0	12	7.8
25	20	14	36	22	27	27	8.7	58	3.4	7.8	22	6.7
26	19	14	29	20	467	30	8.4	50	3.3	10	74	6.0
27	18	17	24	17	701	29	8.3	23	3.2	8.7	20	5.6
28	53	18	22	15	256	28	8.0	16	3.1	21	12	5.2
29	68	17	20	14	-----	43	7.6	11	3.0	32	8.5	5.0
30	37	18	44	14	-----	37	7.6	8.8	3.1	19	7.0	4.3
31	22	-----	94	14	-----	27	-----	7.7	-----	70	6.2	-----
TOTAL	741.3	831.0	1,739	909	2,047	1,566	402.3	639.4	124.3	261.5	1,782.3	214.6
MEAN	23.9	27.7	56.1	29.3	73.1	50.5	13.4	20.6	4.14	8.44	57.5	7.15
MAX	200	157	427	104	701	149	27	109	7.1	70	376	21
MIN	2.2	9.3	20	14	12	20	7.6	6.2	3.0	2.7	6.2	4.3
CFSM	.16	.19	.38	.20	.49	.34	.09	.14	.03	.06	.39	.05
IN.	.19	.21	.44	.23	.51	.39	.10	.16	.03	.07	.45	.05
AC-FT	1,470	1,650	3,450	1,800	4,060	3,110	798	1,270	247	519	3,540	426

CAL YR 1970 TOTAL 22,194.3 MEAN 60.8 MAX 1,930 MIN 2.2 CFSM .41 IN 5.58 AC-FT 44,020
WTR YR 1971 TOTAL 11,257.7 MEAN 30.8 MAX 701 MIN 2.2 CFSM .21 IN 2.83 AC-FT 22,330

PEAK DISCHARGE (BASE, 1,200 CFS).--No peak above base.

SABINE RIVER BASIN

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.--16 years, 4,200 cfs (3,043,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 11,300 cfs June 10 (gage height, 16.05 ft); minimum daily, 109 cfs June 15.

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 good. Flow regulated by Toledo Bend Reservoir (station 08025350), 16.8 miles upstream (capacity, 4,660,000 acre-ft).

REVISIONS.--WSP 1732: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,710	252	216	1,280	1,330	2,500	279	167	594	817	259	184
2	947	231	216	395	2,360	2,590	265	164	3,160	217	306	238
3	1,150	2,290	214	315	2,350	3,570	259	162	4,350	191	387	188
4	1,090	1,720	212	1,180	1,120	3,760	248	158	4,120	189	584	177
5	183	267	212	3,330	218	3,300	685	161	3,340	186	489	187
6	159	209	278	4,870	150	2,530	395	378	1,430	249	349	176
7	145	201	1,240	4,990	135	2,240	225	1,690	265	763	321	1,040
8	129	198	2,140	4,970	125	3,600	217	2,410	213	703	315	1,030
9	139	216	2,370	2,100	273	2,860	216	319	199	299	279	218
10	125	210	2,380	374	429	2,010	211	794	3,880	191	280	185
11	167	200	2,460	2,700	971	2,000	208	2,920	6,990	182	410	186
12	818	211	1,160	3,290	1,120	2,400	205	1,530	2,630	171	276	181
13	1,350	237	425	3,240	408	1,230	204	470	446	166	236	172
14	761	944	1,320	3,540	233	312	201	385	245	1,850	2,340	168
15	235	490	2,320	3,800	617	271	200	306	109	2,760	3,240	168
16	1,220	1,350	2,350	1,550	1,630	262	199	251	119	3,920	369	172
17	597	1,140	2,400	289	1,650	246	209	225	1,880	2,690	235	172
18	192	534	2,330	3,610	2,110	296	216	218	4,570	338	222	180
19	909	782	1,010	6,300	2,300	1,940	211	1,380	1,240	3,100	211	239
20	666	601	306	4,750	2,270	1,030	208	2,380	262	4,430	1,080	239
21	198	243	2,790	2,810	2,230	394	208	662	225	1,690	725	212
22	180	230	3,620	2,620	2,910	341	207	251	211	355	213	188
23	285	810	2,460	1,290	3,570	312	196	218	206	290	2,670	177
24	402	539	1,020	232	3,940	285	187	220	196	222	2,590	172
25	264	234	308	1,420	4,000	276	185	251	187	232	345	170
26	215	228	255	2,510	3,270	271	188	262	183	230	992	168
27	774	226	241	2,510	3,170	267	179	1,330	181	229	904	169
28	1,110	222	1,220	2,530	2,800	265	177	2,650	1,340	271	244	855
29	526	220	2,930	2,550	-----	527	175	1,930	1,170	291	202	3,450
30	370	216	3,390	1,240	-----	453	170	310	1,250	306	186	2,410
31	292	-----	3,480	208	-----	319	-----	226	-----	278	178	-----
TOTAL	18,308	15,451	47,273	76,793	47,689	42,657	6,933	24,778	45,191	27,806	21,437	13,471
MEAN	591	515	1,525	2,477	1,703	1,376	231	799	1,506	897	692	449
MAX	2,710	2,290	3,620	6,300	4,000	3,760	685	2,920	6,990	4,430	3,240	3,450
MIN	125	198	212	208	125	246	170	158	109	166	178	168
AC-FT	36,310	30,650	93,770	152,300	94,590	84,610	13,750	49,150	89,640	55,150	42,520	26,720
CAL YR 1970	TOTAL	1,024,903	MEAN	2,808	MAX	15,600	MIN	125	AC-FT	2,033,000		
WTR YR 1971	TOTAL	387,787	MEAN	1,062	MAX	6,990	MIN	109	AC-FT	769,200		

SABINE RIVER BASIN

121

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.--20 years, 396 cfs (14.73 inches per year, 286,900 acre-ft per year). 19 years, 408 cfs (15.18 inches per year); figure published in Water Resources Data for Louisiana, 1970, in error.

EXTREMES.--Current year: Maximum discharge, 2,140 cfs Oct. 28 (gage height, 13.70 ft); minimum, 7.8 cfs Oct. 4, 5, 6.
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 1971 are published in Part 2 of this report.

REVISIONS.--WSP 2122, Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	696	48	521	64	392	243	27	27	15	78	113
2	9.0	660	46	295	54	782	201	25	23	12	73	114
3	8.4	602	45	208	39	1,510	154	21	21	16	167	117
4	8.4	412	43	295	44	810	122	20	19	15	170	71
5	7.8	298	44	625	225	423	107	20	17	15	184	29
6	8.3	202	39	558	213	312	96	25	16	105	425	24
7	11	147	49	337	160	281	78	258	15	152	202	22
8	17	121	35	245	129	216	67	161	15	204	112	23
9	19	114	31	192	91	173	61	89	15	224	90	23
10	16	131	30	186	73	178	57	61	13	238	163	22
11	36	113	33	178	63	171	55	117	13	292	209	22
12	369	95	57	165	191	155	53	454	13	287	188	23
13	316	101	73	149	241	147	50	504	13	372	263	23
14	141	619	59	134	239	135	47	255	11	382	270	21
15	71	565	108	124	196	121	51	147	11	375	264	20
16	47	320	195	115	157	111	45	100	12	365	257	33
17	35	217	131	89	130	95	46	75	15	399	252	33
18	30	166	101	84	112	103	57	56	15	395	248	27
19	40	143	85	85	117	250	54	46	16	384	244	29
20	313	120	80	72	241	700	50	42	15	374	240	45
21	478	112	77	57	242	400	53	54	15	370	169	53
22	644	96	73	55	242	250	50	46	17	109	151	38
23	730	101	70	61	232	200	47	37	28	94	61	32
24	1,060	94	69	77	172	170	37	34	20	104	142	28
25	980	67	62	71	141	149	35	43	15	93	122	25
26	557	63	54	65	592	142	29	41	13	94	54	23
27	694	59	43	62	1,200	117	28	41	11	99	79	29
28	2,000	58	38	59	726	96	27	48	11	79	111	28
29	1,810	55	103	48	-----	693	28	49	12	81	112	24
30	1,050	52	353	48	-----	773	28	43	15	117	114	20
31	791	-----	879	48	-----	384	-----	33	-----	98	113	-----
TOTAL	12,306.9	6,599	3,153	5,308	6,326	10,439	2,056	2,972	472	5,959	5,327	1,134
MEAN	397	220	102	171	226	337	68.5	95.9	15.7	192	172	37.8
MAX	2,000	696	879	625	1,200	1,510	243	504	28	399	425	117
MIN	7.8	52	30	48	39	95	27	20	11	12	54	20
CFSM	1.09	.60	.28	.47	.62	.92	.19	.26	.04	.53	.47	.10
IN.	1.25	.67	.32	.54	.64	1.06	.21	.30	.05	.61	.54	.12
AC-FT	24,410	13,090	6,250	10,530	12,550	20,710	4,080	5,890	936	11,820	10,570	2,250
CAL YR 1970	TOTAL 82,112.0	MEAN 225	MAX 2,000	MIN 5.0	CFSM .62	IN 8.37	AC-FT 162,900					
WTR YR 1971	TOTAL 62,051.9	MEAN 170	MAX 2,000	MIN 7.8	CFSM .47	IN 6.32	AC-FT 123,100					

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.

GAGE.--Water-stage recorder. Datum of gage is 68.61 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,870 cfs Oct. 29 (gage height, 13.37 ft); minimum, 11 cfs June 7 (gage height, 5.62 ft).
Period of record: Maximum discharge, 1,870 cfs Oct. 29, 1970 (gage height, 13.37 ft); minimum, 11 cfs June 7, 1971 (gage height, 5.62 ft).

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. 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 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	800	114	756	110	569	377	81	88	50	170	190
2	65	737	114	445	123	674	300	81	83	45	160	187
3	63	705	111	325	113	1,570	261	79	79	50	180	187
4	61	564	109	273	105	1,240	216	73	68	48	230	160
5	59	428	108	511	165	680	193	73	65	50	300	96
6	60	344	108	656	317	478	178	79	67	100	500	76
7	62	273	105	482	250	426	162	133	44	180	400	74
8	65	232	110	367	211	365	146	304	80	230	300	70
9	79	222	101	331	181	314	136	198	66	270	200	70
10	76	220	97	305	152	378	128	143	62	280	230	86
11	83	211	99	287	139	338	123	151	61	320	270	74
12	458	185	115	245	211	290	118	346	61	350	250	56
13	816	183	135	228	707	270	115	716	54	450	350	48
14	428	314	139	214	529	255	112	473	53	460	340	56
15	227	354	141	211	322	234	111	277	47	450	330	57
16	156	354	293	203	253	193	112	206	44	440	310	93
17	119	330	265	190	220	172	107	170	56	460	300	118
18	107	266	196	173	198	196	114	149	49	455	290	105
19	104	231	172	165	191	560	115	134	67	450	290	104
20	143	204	161	161	443	910	112	125	56	424	285	112
21	383	188	152	145	601	749	114	119	60	422	260	128
22	558	176	145	135	546	498	116	121	56	219	230	126
23	740	163	138	133	473	389	112	112	61	188	150	111
24	894	169	133	142	306	333	97	111	66	167	200	102
25	1,020	150	125	148	253	279	84	111	61	178	150	98
26	812	127	110	140	523	247	81	107	52	180	130	93
27	532	121	101	133	1,230	234	86	100	49	190	150	92
28	1,240	116	88	130	995	207	86	109	52	180	170	98
29	1,770	117	84	125	-----	476	84	112	53	200	180	92
30	1,300	112	221	119	-----	974	84	101	56	220	185	87
31	926	-----	746	114	-----	598	-----	83	-----	200	190	-----
TOTAL	13,472	8,596	4,836	7,992	9,867	15,096	4,180	5,177	1,816	7,906	7,680	3,046
MEAN	435	287	156	258	352	487	139	167	60.5	255	248	102
MAX	1,770	800	746	756	1,230	1,570	377	716	88	460	500	190
MIN	59	112	84	114	105	172	81	73	44	45	130	48
CFSM	1.02	.68	.37	.61	.83	1.15	.33	.39	.14	.60	.58	.24
IN.	1.18	.75	.42	.70	.86	1.32	.37	.45	.16	.69	.67	.27
AC-FT	26,720	17,050	9,590	15,850	19,570	29,940	8,290	10,270	3,600	15,680	15,230	6,040
CAL YR 1970	TOTAL 102,722	MEAN 281	MAX 1,770	MIN 40	CFSM .66	IN 8.99	AC-FT 203,700					
WTR YR 1971	TOTAL 89,664	MEAN 246	MAX 1,770	MIN 44	CFSM .58	IN 7.85	AC-FT 177,800					

NOTE.--No gage-height record July 26 to Sept. 1.

SABINE RIVER BASIN

123

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.--48 years, 6,528 cfs (4,730,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7,430 cfs Jan. 20 (gage height, 8.26 ft); minimum daily, 350 cfs Sept. 14, 15. 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 except those for period of no gage-height record, which are poor. Flow regulated by Toledo Bend Reservoir (station 08025350) located 58.8 miles upstream.

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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,300	1,480	460	4,970	1,100	4,320	1,150	394	500	1,200	622	504
2	3,000	1,290	450	2,470	2,100	4,240	905	390	1,000	800	560	489
3	1,500	1,180	445	1,250	3,000	5,770	800	387	3,000	600	720	514
4	2,000	3,300	437	1,110	3,000	6,510	732	377	4,500	500	950	542
5	1,500	2,230	417	2,290	1,800	5,620	684	368	4,000	450	1,200	484
6	600	983	425	4,810	1,000	4,690	970	362	3,000	450	1,100	438
7	515	728	420	5,730	800	3,750	890	600	2,000	530	1,120	436
8	512	648	1,080	5,780	700	3,490	640	2,800	1,000	800	962	868
9	501	530	2,330	5,460	650	4,520	604	2,550	600	1,200	745	1,310
10	491	550	2,630	2,720	700	3,930	608	850	500	844	635	550
11	535	600	2,660	1,300	943	3,480	616	1,680	4,000	652	654	394
12	1,310	560	2,750	3,560	1,660	3,220	632	3,460	6,000	635	787	380
13	2,900	540	1,460	3,870	2,250	3,560	604	2,620	3,000	655	696	360
14	2,710	1,000	715	4,010	1,750	2,150	628	1,550	1,000	705	655	350
15	1,530	1,200	1,310	4,230	1,060	1,180	644	995	600	2,260	3,080	350
16	777	2,000	2,750	4,500	1,430	946	644	744	500	3,620	3,050	360
17	1,480	1,500	3,100	2,200	2,380	784	608	628	600	4,000	1,030	390
18	1,070	1,000	3,050	956	2,580	752	608	560	2,000	2,400	714	430
19	567	800	2,920	4,600	2,960	1,710	632	520	4,500	1,100	662	440
20	1,050	900	1,550	6,660	3,430	3,790	644	1,920	1,500	4,010	643	385
21	1,230	700	752	4,650	3,700	2,620	628	2,410	800	4,610	1,380	523
22	924	550	3,440	3,540	3,470	1,550	596	1,080	600	2,230	1,310	469
23	1,100	500	3,890	3,360	4,150	1,200	544	604	550	935	636	435
24	1,770	800	3,110	1,890	4,570	1,020	492	524	520	655	3,120	417
25	2,160	937	1,570	874	4,800	900	457	516	500	579	2,770	385
26	1,620	567	736	2,120	5,440	810	426	524	500	585	958	384
27	1,320	506	587	3,210	5,840	768	412	550	500	568	1,260	382
28	3,720	490	554	3,220	5,350	744	412	1,300	500	561	1,340	392
29	4,230	480	1,360	3,260	-----	792	408	2,800	1,400	600	663	1,100
30	2,970	470	3,630	3,250	-----	1,920	401	2,000	1,400	631	544	3,780
31	1,930	-----	4,990	1,860	-----	1,730	-----	700	-----	653	528	-----
TOTAL	49,822	29,019	55,978	103,710	72,613	82,466	19,019	36,763	51,070	39,988	35,094	18,201
MEAN	1,607	967	1,806	3,345	2,593	2,660	634	1,186	1,702	1,290	1,132	607
MAX	4,230	3,300	4,990	6,660	5,840	6,510	1,150	3,460	6,000	4,610	3,120	3,780
MIN	491	470	417	874	650	744	401	362	500	450	528	350
AC-FT	98,820	57,560	111,000	205,700	144,000	163,600	37,720	72,920	101,300	79,320	69,610	36,100
CAL YR 1970	TOTAL	1,181,629	MEAN	3,237	MAX	15,400	MIN	394	AC-FT	2,344,000		
WTR YR 1971	TOTAL	593,743	MEAN	1,627	MAX	6,660	MIN	350	AC-FT	1,178,000		

NOTE.--No gage-height record May 27 to July 7.

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.--16 years, 13.7 cfs (14.20 inches per year, 9,910 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 776 cfs Oct. 27 (gage height, 9.78 ft); minimum, 1.1 cfs June 2, 27+38, 29, 30, July 1-2, 3; gage height, 0.53 ft Oct. 5, 6.
Period of record: Maximum discharge, 1,030 cfs Apr. 14, 1967 (gage height, 11.07 ft); minimum, 0.80 cfs Sept. 14, 15, 16, 17, 18, 19, 1965.

REMARKS.--Records good, except those for period of no gage-height record which are fair. Records of water temperatures for the water year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1732: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1.4	7.3	3.7	10	3.2	10	4.5	2.2	1.3	1.1	7.0	1.6		
2	1.4	5.9	3.6	6.0	3.2	50	4.0	2.1	1.3	1.1	8.7	1.5		
3	1.3	5.4	3.5	4.7	3.1	120	3.9	2.1	1.2	5.2	14	1.8		
4	1.3	4.7	3.4	5.8	3.0	30	3.6	2.0	1.2	2.7	20	1.7		
5	1.2	4.2	3.4	5.4	3.5	15	3.4	2.0	1.2	2.0	23	1.6		
6	1.3	3.9	3.2	4.5	11	12	3.2	2.2	1.2	1.6	8.6	1.6		
7	1.2	3.7	3.1	4.0	6.0	10	3.2	12	1.3	1.6	9.4	1.5		
8	1.4	3.6	3.0	6.0	4.0	12	3.1	7.5	1.3	1.5	3.0	1.4		
9	1.7	9.3	3.0	5.0	3.7	9.0	3.1	3.6	1.5	1.5	3.5	1.4		
10	1.8	13	3.0	4.5	3.6	13	3.1	3.5	1.5	1.6	2.4	1.4		
11	18	6.5	3.2	4.5	3.5	10	3.1	6.2	1.5	1.8	2.0	1.4		
12	238	4.5	7.0	4.3	4.0	8.0	3.0	18	1.5	2.0	1.8	1.4		
13	40	6.1	5.8	4.0	6.0	7.4	2.8	14	1.4	1.6	1.6	1.3		
14	19	76	4.2	3.8	9.0	7.0	2.8	4.6	1.4	1.5	1.5	1.3		
15	4.9	28	6.1	6.0	6.0	6.4	2.8	2.9	1.4	1.4	1.5	1.5		
16	3.4	12	24	5.0	5.0	5.8	2.8	2.3	1.4	1.4	1.5	1.8		
17	2.8	8.3	11	4.3	4.5	5.2	2.8	2.0	1.3	1.4	1.4	2.7		
18	2.5	6.6	6.3	4.0	4.2	6.0	3.7	1.8	1.2	1.4	1.4	2.2		
19	2.4	5.7	4.9	3.8	4.0	15	3.6	1.7	1.2	1.4	1.4	2.7		
20	2.5	5.1	4.3	3.8	6.0	10	3.1	1.6	1.2	1.5	2.1	2.8		
21	2.4	4.5	4.1	3.7	5.0	7.0	3.0	1.6	1.2	1.5	3.2	2.2		
22	2.2	4.2	3.9	3.5	10	5.4	2.9	1.5	1.2	1.4	3.6	1.8		
23	6.7	4.0	3.8	4.0	6.8	5.0	2.8	1.5	1.2	1.4	2.4	1.7		
24	71	3.8	3.9	3.8	5.0	4.6	2.7	1.5	1.2	1.8	1.2	1.6		
25	18	3.7	3.7	3.8	10	4.3	2.4	2.0	1.2	1.8	1.2	1.6		
26	6.6	3.7	3.4	3.7	70	4.1	2.4	2.2	1.1	1.6	1.2	1.5		
27	172	3.7	3.3	3.5	45	4.0	2.4	1.7	1.1	2.3	1.6	1.5		
28	357	3.7	3.2	3.5	15	4.0	2.3	1.5	1.1	2.7	2.0	1.4		
29	57	3.6	3.4	3.4	-----	6.0	2.3	1.5	1.2	4.2	2.2	1.4		
30	22	3.7	7.4	3.4	-----	10	2.3	1.4	1.1	13	2.3	1.4		
31	15	-----	23	3.3	-----	6.0	-----	1.4	-----	11	2.1	-----		
TOTAL	1,077.4	258.4	172.8	139.0	263.3	422.2	91.1	112.1	37.9	78.0	139.8	50.7		
MEAN	34.8	8.61	5.57	4.48	9.40	13.6	3.04	3.62	1.26	2.52	4.51	1.69		
MAX	357	76	24	10	70	120	4.5	18	1.5	13	23	2.8		
MIN	1.2	3.6	3.0	3.3	3.0	4.0	2.3	1.4	1.1	1.1	1.2	1.3		
CFSM	2.65	.66	.42	.34	.72	1.04	.23	.28	.10	.19	.34	.13		
IN.	3.06	.73	.49	.40	.75	1.20	.26	.32	.11	.22	.40	.14		
AC-FT	2,140	5.12	343	276	522	837	181	222	75	155	277	101		
CAL YR 1970:	TOTAL	2,727.18	MEAN	7.47	MAX	357	MIN	.88	CFSM	.57	IN.	7.74	AC-FT	5,410
WTR YR 1971:	TOTAL	2,842.7	MEAN	7.79	MAX	357	MIN	1.1	CFSM	.60	IN.	8.07	AC-FT	5,640

PEAK DISCHARGE (BASE, 400 CFS)

NOTE.--No gage-height record Jan. 6 to Apr. 1.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-12	0830	8.20	460	10-27	2200	9.78	776

SABINE RIVER BASIN

125

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 and Water Quality Monitor System. 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.--47 years, 8,071 cfs (5,847,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 31,000 cfs Oct. 29 (gage height, 15.03 ft); minimum daily, 456 cfs Sept. 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, 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 fair. 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 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,140	13,600	975	4,660	2,980	10,900	2,310	623	1,890	1,510	755	738
2	1,880	8,520	953	5,810	1,840	10,600	2,010	609	1,150	1,620	764	644
3	2,850	5,320	932	5,430	1,570	9,300	1,630	600	855	1,690	813	615
4	2,590	3,660	915	3,690	2,660	9,590	1,440	585	2,010	1,190	988	609
5	1,810	3,520	897	2,450	3,300	11,100	1,330	570	3,960	796	1,390	692
6	1,980	3,950	875	2,600	2,970	12,000	1,220	588	4,650	610	1,520	641
7	1,420	2,890	848	4,060	2,120	11,300	1,190	811	4,640	565	1,580	550
8	961	2,030	824	5,490	1,730	9,310	1,420	861	3,440	518	1,470	520
9	854	1,650	906	6,410	1,500	7,350	1,230	1,650	1,900	587	1,310	529
10	841	1,520	1,870	6,850	1,300	6,720	1,040	3,020	1,100	1,100	1,310	1,290
11	930	1,460	2,640	5,980	1,150	6,590	970	2,340	850	1,150	1,310	1,200
12	5,120	1,460	2,960	3,910	2,000	6,000	931	1,850	2,000	936	995	809
13	5,430	1,440	3,120	3,500	2,970	5,430	900	3,100	4,800	778	946	587
14	5,100	1,530	2,780	4,620	3,250	5,170	875	3,530	5,100	744	936	496
15	5,070	2,060	1,910	5,200	2,920	4,570	851	2,780	2,960	744	831	456
16	4,120	3,290	1,600	5,570	2,210	3,140	829	1,990	1,720	1,150	1,390	478
17	2,650	3,580	2,530	5,620	1,770	2,320	827	1,500	1,080	2,650	3,160	543
18	2,000	3,240	3,450	4,750	2,230	2,030	838	1,190	750	3,730	2,300	552
19	2,100	3,070	3,710	2,860	2,650	2,050	839	1,010	1,090	4,150	1,370	582
20	1,570	2,580	3,680	3,200	3,050	2,430	848	888	3,380	2,600	1,010	587
21	1,280	2,040	3,130	5,460	3,570	4,340	859	1,000	3,240	2,330	887	576
22	1,650	2,000	2,080	6,460	4,160	4,990	838	2,350	1,920	4,160	957	614
23	1,560	1,670	2,450	5,660	4,330	3,810	808	2,070	1,190	3,930	1,560	641
24	1,750	1,370	4,130	4,640	4,530	2,730	782	1,370	871	2,290	1,280	621
25	2,390	1,260	4,120	3,600	5,050	2,110	751	979	731	1,290	1,560	581
26	3,290	1,550	3,270	2,230	6,460	1,780	717	858	667	913	3,040	529
27	8,080	1,400	2,060	1,910	8,640	1,610	680	865	620	753	2,190	495
28	24,200	1,150	1,450	2,960	10,200	1,510	659	836	580	673	1,410	474
29	29,800	1,040	1,240	3,420	-----	1,440	650	977	557	636	1,640	473
30	25,600	1,000	1,390	3,550	-----	1,390	641	2,400	656	646	1,320	504
31	19,000	-----	2,950	3,580	-----	1,810	-----	2,840	-----	747	910	-----
TOTAL	169,016	84,850	66,645	136,130	93,110	165,420	30,913	46,640	60,357	47,186	42,902	18,626
MEAN	5,452	2,828	2,150	4,391	3,325	5,336	1,030	1,505	2,011	1,522	1,384	621
MAX	29,800	13,600	4,130	6,850	10,200	12,000	2,310	3,530	5,100	4,160	3,160	1,290
MIN	841	1,000	824	1,910	1,150	1,390	641	570	557	518	755	456
AC-FT	335,200	168,300	132,200	270,000	184,700	326,100	61,320	92,510	119,700	93,590	85,100	36,940
CAL YR 1970	TOTAL	1,705,055	MEAN	4,671	MAX	29,800	MIN	747	AC-FT	3,382,000		
WTR YR 1971	TOTAL	961,795	MEAN	2,635	MAX	29,800	MIN	456	AC-FT	1,908,000		

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 three tables. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of peak elevations at flood-profile stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a fourth table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during the periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1971

Discharge measurements made at 104-flow partial-record stations during water year 1971						
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
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	1963-71	11-17-70 3-23-71 5- 4-71 9- 1-71	1.20 .37 0 0
08024070	San Jose Creek at Many, La.	Lat 31°33'20", long 93°28'15", Sabine Parish, at bridge on U.S. Highway 171, 1.1 miles south-east of Many Post Office, and 3.2 miles upstream from Harpoon Bayou.	6.82	1958, 1963-71	11-18-70 1-14-71 3-24-71	.66 1.42 .66
08025606	Bayou Toro near Toledo Bend, near Toro, La.	Lat 31°12'12", long 93°32'39", Sabine Parish, at bridge on Toledo Bend Dam road, 1.8 miles upstream from mouth, and 5.2 miles south of Toro.	a193	1966-71	1-15-71 6-22-71 9- 2-71	88.0 9.70 12.1
08025620	Mill Creek near Toro, La.	Lat 31°11'27", long 93°21'50", Vernon Parish, 0.1 mile below bridge on parish road, 1.5 miles upstream from mouth, and 6.3 miles south of Toro.	b2.08	1964-71	11-18-70 1-15-71 3-24-71 9- 2-71	2.60 3.01 4.67 2.50
08025800	Yellow Branch near Burr Ferry, La.	Lat 31°06'05", long 93°29'45", Vernon Parish, at bridge on State Highway 111, 2.0 miles upstream from mouth, 2.4 miles north of Burr Ferry.	2.08	1963-71	1-15-71 3-24-71 6-22-71 9- 2-71	1.58 1.52 .94 1.20
08026300	Mill Creek near Evans, La.	Lat 30°56'40", long 93°30'25", Vernon Parish, at bridge on State Highway 111, 1.4 miles upstream from mouth, 3.1 miles south of Evans.	6.30	1963-71	10- 6-70 3- 5-71 3-31-71 9- 1-71	1.08 5.76 4.57 1.72
08030400	Bess Branch near Starks, La.	Lat 30°22'50", long 93°41'55", Calcasieu Parish, at bridge on State Highway 109, 2.4 miles upstream from mouth, and 5.0 miles northwest of Starks.	8.77	1963-71	10- 6-71 1- 6-71 3-31-71 8-31-71	.60 .73 .41 3.78

* Also a crest-stage partial-record station.

a Approximately.

b Includes unnamed tributary.

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 1971

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, at bridge 1.4 miles southeast of Bogalusa water tower.	--	1969-71	9-16-71	2.54	(†)
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.	b 7.9	1969-71	9-16-71	6.05	(†)
02491200	Silver Creek near Clifton, La.	Lat 30°55'30", long 90°14'30", Washington Parish, at bridge 3.6 miles west of Clifton.	50.1	1966-71	6- 3-71	6.41	(†)
02491350	Hays Creek near Franklinton, La.	Lat 30°53'16", long 90°11'28", Washington Parish, at bridge on State Highway 25, 3.4 miles northwest of Franklinton water tower.	42.2	1966-71	6- 3-71	10.30	(†)
02491700	Lawrence Creek near Franklinton, La.	Lat 30°51'40", long 90°06'55", Washington Parish, at bridge 2.0 miles east of Franklinton.	44.2	1964-71	10-13-70	9.06	(†)
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, 1.8 miles east of Ida.	b 73	1969-71	12-20-70	36.52	(†)
07348725	Indian Creek at Shongaloo, La.	Lat 32°55'55", long 93°17'30", Webster Parish, at bridge 0.8 mile southeast of Shongaloo.	--	1966-71	5-12-71	42.39	(†)
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.	--	1963-71	12-20-70	40.09	(†)
07351300	Brush Bayou near Shreveport, La.	Lat 32°23'25", long 93°46'15", Caddo Parish, at bridge 2.5 miles south of Shreveport.	27.1	1960-71	12-20-70	164.13	(†)
07351500	Cypress Bayou near Keithville, La.	Lat 32°18'00", long 93°49'40", Caddo Parish, at bridge 2.0 miles south of Keithville.	b 66	1939-57†, 1958-71	5-12-71	9.78	1,420
07351670	Rambin Bayou near Frierson, La.	Lat 32°13'25", long 93°42'10", De Soto Parish, at bridge 1.5 miles south of Frierson.	59.6	1966-71	5-11-71	11.07	(†)
07351700	Bayou Na Bonchasse near Mansfield, La.	Lat 32°06'05", long 93°41'45", De Soto Parish, at bridge on State Highway 175, 4.2 miles north of Mansfield.	19.5	1957-68†, 1969-71	5-11-71	10.98	522
07351980	Saline Bayou near Bienville, La.	Lat 32°24'10", long 92°56'45", Bienville Parish, at bridge 4 miles northeast of Bienville.	--	1966-71	5-12-71	43.00	390
07352060	Mill Creek at Saline, La. (discontinued).	Lat 32°10'15", long 92°58'35", Bienville Parish, at bridge 0.5 mile north of Saline	12.8	1964-71a	10-28-70	41.12	(†)
07352295	Black Lake Creek at Gibsland, La.	Lat 32°33'15", long 93°03'05", Bienville Parish, at bridge 0.6 mile north of Gibsland.	--	1968-71	5- 7-71	45.12	(†)
07352500	Black Lake Bayou near Castor, La.	Lat 32°15'40", long 93°12'50", Red River Parish, at bridge 2.8 miles northwest of Castor.	423	1941-57†, 1958-71	5-11-71	8.90	2,100
07352730	Antoine Creek near Ashland, La.	Lat 32°05'50", long 93°06'10", Red River Parish, at bridge 3.0 miles south of Ashland.	17.7	1964-71	5-11-71	44.35	800
07353990	Kisatchie Bayou at Kisatchie, La.	Lat 31°25'20", long 93°10'14", Natchitoches Parish, at bridge 0.6 mile north of Kisatchie.	--	1966-71	12-20-70	13.83	(†)
07364740	Bayou de Loutre near Farmerville, La.	Lat 32°52'25", long 92°23'40", Union Parish, at bridge 7.0 miles north of Farmerville.	--	1966-71	8- 7-71	42.36	(†)
07364870	Sugar Creek near Arcadia, La.	Lat 32°41'20", long 92°51'30", Lincoln Parish, at bridge 10.3 miles northeast of Arcadia.	b 47	1966-71	12-20-70	45.21	(†)

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Peak for the period October 1970 to May 1971.

b Approximately.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Red River basin--Continued							
07366000	Corney Bayou near Lillie, La.	Lat 32°53'15", long 92°39'25", Union Parish, at bridge 3.0 miles south of Lillie.	462	1941-57†, 1958-71	5- 7-71	12.31	1,350
07366420	Bayou Choudrant near Calhoun, La.	Lat 32°32'30", long 92°22'45", Ouachita Parish, at bridge 2.5 miles northwest of Calhoun.	--	1966-71	5- 7-71	40.71	1,000
07370530	Black Bayou at Kelly, La.	Lat 31°58'20", long 92°10'00", Jackson Parish, at bridge 0.9 mile southeast of Kelly.	--	1966-71	5-13-71	41.04	(†)
07370575	Caney Creek near Chatham, La.	Lat 32°13'00", long 92°29'10", Jackson Parish, at bridge 6.5 miles southwest of Chatham.	--	1966-71	5- 7-71	44.97	(†)
07370660	Flat Creek near Olla, La.	Lat 32°00'55", long 92°21'50", Caldwell Parish, at bridge 10.2 miles northwest of Olla.	--	1966-71	2-26-71	46.59	2,150
07370750	Chickasaw Creek near Olla, La.	Lat 31°52'30", long 92°13'35", La Salle Parish, at bridge 2.0 miles southeast of Olla.	47.6	1954-71	5-13-71	40.69	2,120
07370820	Dugdemona River near Quitman, La.	Lat 32°20'40", long 92°44'40", Jackson Parish, at bridge 1.7 miles west of Quitman.	117	1964-71	5-11-71	40.19	1,150
07370840	Choctaw Creek near Hodge, La.	Lat 32°22'05", long 92°48'45", Bienville Parish, at bridge 8.5 miles northwest of Hodge.	--	1966-71	9- 1-71	42.05	(†)
07370930	Cypress Creek at Quitman, La.	Lat 32°20'45", long 92°42'55", Jackson Parish, at bridge 0.8 mile southeast of Quitman.	46.0	1966-71	1971	<162.08	(†)
07370980	Little Dugdemona River near Hodge, La.	Lat 32°16'20", long 92°41'40", Jackson Parish, at bridge 1.7 miles east of Hodge.	b20	1964-71	5-11-71	44.78	760
07372110	Brushy Creek near Joyce, La.	Lat 31°55'10", long 92°33'15", Winn Parish, at bridge 3.0 miles southeast of Joyce.	b24	1964-71	5-11-71	42.49	710
07372900	Dyson Creek near Pollock, La.	Lat 31°32'20", long 92°25'00", Grant Parish, at bridge 1.6 miles northwest of Pollock.	b12	1964-71	1971	<39.3	(†)
		Mississippi River Delta					
07375170	Bogue Falaya at Covington, La.	Lat 30°29'58", long 90°05'04", St. Tammany Parish, at bridge 1.0 mile northeast of Covington.	88.2	1964-71	9-16-71	14.46	4,320
07375222	Abita River north of Abita Springs, La.	Lat 30°28'55", long 92°02'20", St. Tammany Parish, at bridge 0.2 mile north of Abita Springs.	--	1966-71	2-26-71	20.64	(†)
07375307	Terrys Creek near Kentwood, La.	Lat 30°57'23", long 90°30'13", Tangipahoa Parish, at bridge 1.5 miles northeast of Kentwood.	--	1966-71	9-16-71	11.63	(†)
07375463	Chappepeela Creek near Husser, La.	Lat 30°39'35", long 90°18'45", Tangipahoa Parish, at bridge 1.9 miles southeast of Husser.	--	1966-71	9-16-71	24.90	(†)
07375480	Chappepeela Creek southeast of Loranger, La.	Lat 30°36'22", long 90°19'56", Tangipahoa Parish, at bridge 4.5 miles southeast of Loranger.	91.0	1964-71	10-13-71	7.79	1,900
07375600	Washley Creek near Robert, La.	Lat 30°30'20", long 90°18'30", Tangipahoa Parish, at bridge on U.S. Highway 190, 2.0 miles east of Robert.	25.3	1951-71	5-12-71	10.03	1,940
07375800	Tickfaw River at Liverpool, La.	Lat 30°55'47", long 90°40'41", St. Helena Parish, at bridge on State Highway 38, 1.0 mile north of Liverpool.	89.7	1956-68†, 1969-71	9-16-71	10.48	4,160
07376290	Blood River near Springfield, La.	Lat 30°26'19", long 90°36'37", Livingston Parish, at bridge on State Highway 42, 3.7 miles northwest of Springfield.	26.6	1964-71	9-16-71	16.96	1,970
07376520	Little Natalbany River at Albany, La.	Lat 30°30'15", long 90°34'40", Livingston Parish, at bridge on U.S. Highway 190, 0.3 mile east of Albany.	40.6	1966-71	9-16-71	24.33	3,160
07376600	Ponchatoula Creek at Natalbany, La.	Lat 30°33'40", long 90°28'55", Tangipahoa Parish, at bridge 1.0 mile north of Natalbany.	13.8	1951-71	9-16-71	10.31	1,830
07377190	Sandy Creek southeast of Clinton, La.	Lat 30°50'05", long 90°57'50", East Feliciana Parish, at bridge 5.9 miles southeast of Clinton.	--	1966-71	9-17-71	9.73	(†)

† Discharge not determined.

* Operated as a continuous-record gaging station.

< Less than amount shown.

b Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1971--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 0.4 mile east of Magnolia.	884	1949-71	1971	<7.5	(+)
07377700	Redwood Creek near Slaughter, La.	Lat 30°43'44", long 91°06'54", East Feliciana Parish, at bridge on State Highway 412, 2.0 miles northeast of Slaughter.	41.1	1966-68†, 1969-71	9-17-71	17.04	2,480
07380160	Middle Colyell Creek near Walker, La.	Lat 30°29'45", long 90°50'30", Livingston Parish, at bridge 1.3 miles east of Walker.	20.3	1951-71	3- 2-71	1.36	(+)
07381413	Intracoastal Waterway tributary near Port Allen, La.	Lat 30°26'42", long 91°13'53", West Baton Rouge Parish, on Interstate Highway 10, 0.2 mile upstream from mouth, and 1.4 miles southwest of Port Allen.	9.08	1971	1971	<7.0	(+)
Mermentau River basin							
08011800	Castor Creek near Oberlin, La.	Lat 30°37'10", long 92°37'10", Allen Parish, at bridge 8.5 miles east of Oberlin.	43.9	1964-71	10-12-70	12.22	3,100
Calcasieu River basin							
08013800	Little Sixmile Creek near Pitkin, La.	Lat 30°58'05", long 93°00'45", Vernon Parish, at bridge 5.0 miles west of Pitkin.	10.4	1954-71	3-29-71	12.57	(+)
08013950	Big Brushy Creek near Pitkin, La.	Lat 30°54'55", long 92°53'30", Vernon Parish, at bridge 3.0 miles southeast of Pitkin.	34.4	1965-71	10-12-70	14.45	(+)
08014000	Sixmile Creek near Sugartown, La.	Lat 30°48'52", long 92°55'34", Allen Parish, at bridge 5.5 miles east of Sugartown.	171	1956-65†, 1966-71	10-12-70	12.02	1,830
08014200	Tenmile Creek near Elizabeth, La.	Lat 30°50'11", long 92°52'26", Allen Parish, at bridge 5.3 miles southwest of Elizabeth.	94.2	1950-65†, 1966-71	10-12-70	13.38	2,290
08014600	Flat Creek near De Ridder, La.	Lat 30°51'05", long 93°14'45", Beauregard Parish, at bridge 2.4 miles east of De Ridder.	26.3	1964-71	10-12-70	10.44	(+)
08016600	Hickory Branch at Kernan, La.	Lat 30°30'05", long 93°16'45", Beauregard Parish, at bridge 0.7 mile southwest of Kernan.	82.2	1946-57†, 1958-71	10-12-70	26.53	6,220
Sabine River basin							
*08023270	Bull Bayou near Hunter, La.	See previous table.	8.54	1964-71	1971	<9.0	(+)
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 northeast of Many.	3.16	1959-68†, 1969-71	8- 3-71	10.18	490
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	1967-71	2-27-71	6.03	(+)
08026200	Red Bank Creek at Evans, La.	Lat 30°59'30", long 93°29'55", Vernon Parish, at bridge 0.4 mile northeast of Evans.	17.2	1966-71	2-27-71	13.87	(+)

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

< Less than amount shown.

* Also a low-flow partial-record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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 1971

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Pearl River basin						
Bogue Lusa Creek	Pearl River	Lat 30°45'54", long 89°50'00", Washington Parish, 500 ft above mouth, and 0.2 mile northwest of Richardson Landing, at Bogalusa.	--	--	8-24-71 8-24-71	95.9 99.0
Pearl River	Gulf of Mexico	Lat 30°42'14", long 89°50'44", Washington Parish, at Pools Bluff Sill, and 3.4 miles south of Bogalusa city limits.	--	--	8-24-71	2,990
Little Silver Creek	Silver Creek	Lat 30°55'13", long 90°19'42", Washington Parish, at bridge 0.5 mile south of Sunny Hill, and 3.5 miles southwest of Mt. Hermon.	--	--	5-12-71	712
Red River basin						
Red River	Mississippi River	Lat 33°05'29", long 93°51'38", Miller County, at ferry landing 1.8 miles west of Spring Bank, Ark.	a56,903	--	4-19-71	3,320
Do.....	do.....	Lat 31°49'06", long 93°05'03", Natchitoches Parish, at bridge on State Highway 6 at Grand Ecore, and 4.0 miles north of Natchitoches.	a64,575	1945	4- 7-71 4-17-71	8,310 6,530
Do.....	do.....	Lat 31°12'10", long 92°08'30", Avoyelles Parish, at bridge on State Highway 107, 1.5 miles west of Moncla.	a67,625	--	4-10-71	8,810
Bayou Bartholomew	Ouachita River	Lat 32°43'21", long 92°02'26", Morehouse Parish, at bridge on parish road, 1.5 miles upstream from mouth, and 3.0 miles northeast of Sterlington.	--	--	6-29-71	286
Castor Creek	Little River	Lat 31°49'50", long 92°20'28", Winn Parish, at bridge 0.1 mile downstream from mouth of Saline Creek and 0.9 mile west of Tullos.	923	1951-63b, 1955-64c, 1966-67	7-12-71	66.9
Dugdemona River		Lat 31°56'12", long 92°37'10", Winn Parish, at bridge on U.S. Highway 84, at Joyce.	--	--	4-28-71	55.8
Do.....	do.....	Lat 31°47'25", long 92°22'46", at Grant-LaSalle Parish line, 1.0 mile west of Rochelle and 2.6 miles above mouth.	--	--	5- 6-71	50.6
Little River	Black River	Lat 31°34'50", long 92°18'35", Grant Parish, at bridge 7.0 miles northeast of Pollock.	2,254	1952-54, 1961-62, 1964-69c	7-12-71	212
Mississippi River Delta						
Tchefuncta River	Lake Pontchartrain	Lat 30°49'10", long 90°17'25", Tangipahoa Parish, at bridge on State Highway 10, 4.3 miles east of Wilmer.	19.8	--	5-12-71	784
Corporation Canal	Bayou Duplanier	Lat 30°25'18", long 91°10'36", East Baton Rouge Parish, at bridge on East Roosevelt St., 2.0 miles southeast of Baton Rouge Post Office.	--	1970	9- 8-70 10-12-70 10-27-70	d112 253 396
Do.....	do.....	Lat 30°24'14", long 91°10'15", East Baton Rouge Parish, at bridge on Campus Drive, 2.7 miles southeast of Baton Rouge Post Office.	--	--	10-12-70 10-27-70	244 544
Spring Creek	Bayou Cocodrie	Lat 31°05'55", long 92°38'12", Rapides Parish, at bridge on unmarked parish road, 0.5 mile upstream from Rocky Branch and 0.5 mile south of Melder.	--	1969-70	10- 8-70 9- 3-71	4.58 5.42
Rocky Branch	Spring Creek	Lat 31°05'53", long 92°37'39", Rapides Parish, at bridge on State Highway 112, 0.4 mile upstream from mouth and 0.7 mile southeast of Melder.	--	1969-70	10- 8-70	e.02
Roaring Creek	do.....	Lat 31°04'51", long 92°36'37", Rapides Parish, at bridge on unmarked parish road, 0.4 mile upstream from mouth and 3.0 miles southeast of Melder.	--	1969	9- 3-71	.80

a 5,936 sq mi above Dennison Dam is noncontributing.

b Operated as a crest-stage partial-record station.

c Operated as a low-flow partial-record station.

d Not previously published.

e Estimated.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1971--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Mermentau River basin						
Bayou Plaquemine Brule	Bayou des Cannes	Lat 30°24'35", long 92°13'15", Acadia Parish, at bridge on State Highway 35 at Church Point.	48.2	1955-63c, 1967-71f	10-25-67	d5.71
					11-29-67	d.62
					1- 8-68	d7.23
					1-31-68	d2.20
					3-12-68	d12.6
					3-26-68	d5.43
					4-24-68	d3.72
					5-22-68	d3.49
					6-28-68	d9.55
					7-31-68	d4.71
					9-12-68	d10.3
					10- 1-68	d3.21
					12- 2-68	d110
					12- 3-68	d97.1
					12-17-68	d5.71
					3-13-69	d2.76
					4-14-69	d2,370
					4-15-69	d250
					4-16-69	d968
					4-17-69	d690
					4-17-69	d440
					6- 6-69	d8.70
					7-16-69	d6.17
					8-27-69	d6.03
					10- 7-69	d600
					11-18-69	d.82
					1-13-70	d12.3
					2-18-70	d5.96
					4- 6-70	d.59
					5-13-70	d2.77
					6-30-70	d4.72
					8- 3-70	d5.43
					9- 3-70	d124
					10-12-70	506
					10-14-70	736
					10-14-70	524
					10-14-70	386
					10-15-70	326
					10-15-70	219
					11-17-70	16.4
					1-10-71	11.2
					2-25-71	2.43
					3-25-71	2.62
					4-28-71	1.19
					6- 9-71	4.28
					7-20-71	4.36
					9- 1-71	3.92
Bayou Wikoff	Bayou Plaquemine Brule	Lat 30°17'05", long 92°15'45", Acadia Parish, at bridge on State Highway 35, 4.0 miles north of Rayne.	51.3	1953-67b, 1967-71f	7-30-54	d896
					2- 7-55	d3,520
					6-28-57	d3,090
					12-17-59	d3,150
					2-20-61	d1,710
					2-20-61	d800
					4-14-67	d3,790
					4-17-67	d508
					4-17-67	d333
					4-18-67	d274
					4-18-67	d223
					10-26-67	d5.78
					12- 1-67	d.29
					1- 8-68	d9.09
					2- 1-68	d.23
					3-14-68	d2.88
					3-28-68	d15.1
					4-25-68	d13.2
					5-23-68	d11.7
					6-26-68	d13.6
					7-31-68	d37.3
					9-12-68	d3.90
					10- 1-68	d0
					11-21-68	d2.13
					12- 3-68	d275
					12- 3-68	d186
					12- 3-68	d181
					12-17-68	d4.11

b Operated as a crest-stage partial-record station.
c Operated as a low-flow partial record-station.

d Not previously published.
f Unpublished daily gage heights collected.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1971--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Mermentau River basin--Continued						
Bayou Wikoff	Bayou Plaquemine Brule	See preceding page.			3-13-69	d3.01
					4-14-69	d2,180
					4-15-69	d1,340
					4-16-69	d1,550
					4-18-69	d674
					6- 6-69	d16.9
					7-16-69	d15.2
					8-27-69	d4.00
					10- 8-69	d14.2
					11-18-69	d0
					1-13-70	d13.4
					2-18-70	d3.83
					4- 3-70	d0
					5-13-70	d2.60
					6-30-70	d10.8
					8- 3-70	d12.9
					9- 3-70	d316
					10-12-70	388
					10-14-70	1,440
					10-16-70	266
					11-17-70	14.8
					1-10-71	35.2
					2-23-71	0
					3-25-71	7.34
					4-28-71	6.61
					6- 9-71	7.64
					7-20-71	10.8
					9- 1-71	.80

d Not previously published.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

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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 1971

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.	--	1969-71	9-16-71	+5.25
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.	--	1969-71	9-16-71	+11.34
02490125	Coburn Creek at Vanburen St., at Bogalusa, La.	Lat 30°47'45", long 89°51'58", Washington Parish, at bridge 0.4 mile southeast of Bogalusa water tower.	--	1969-71	3-29-71 9-16-71	+6.69 +8.79
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.	--	1969-71	1970 3-29-71 9-16-71	<+12.58 +12.58 +14.85
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	1969-71	3-29-71 9-16-71	<+9.46 +13.98
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.	--	1969-71	3-29-71 9-16-71	+3.33 +7.44
02490130	Coburn Creek at State Highway 21, at Bogalusa, La.	Lat 30°47'46", long 89°50'46", Washington Parish, at bridge 1.0 mile southeast of Bogalusa water tower.	7.9	1969-71	1971	<+1.60
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.	--	1969-71	1970 3-29-71 9-16-71	<+12.44 +13.53 +13.07
02492663	French Branch near Slidell, La.	Lat 30°17'40", long 89°44'10", St. Tammany Parish, at bridge 3.5 miles northeast of Slidell.	--	1966-71	10-13-70	+6.72
Red River basin						
07348010	Twelvemile Bayou below Dixie, La.	Lat 32°36'25", long 93°48'35", Caddo Parish, at bridge 6.0 miles southeast of Dixie.	--	1962-71	1971	<+51.18
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.	--	1963-71	1971	<+75.80
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.	--	1963-71	1971	<+57.70
07349363	Macks Bayou tributary No. 2, at Bossier City, La.	Lat 32°32'33", long 93°42'30", at bridge on Airline Dr., 2.1 miles northeast of Bossier City Post Office.	--	1963-71	10-28-70	163.37
07349365	Macks Bayou at Bossier City, La.	Lat 32°31'59", long 93°40'24", at bridge on U.S. Highway 80, 3.3 miles northeast of Bossier City Post Office.	--	1963-71	1971	<+60.90
07349368	Macks Bayou tributary No. 3, at Bossier City, La.	Lat 32°31'20", long 93°41'31", at bridge on Old Minden Road, 2.1 miles east of Bossier City Post Office.	--	1963-71	1971	<+62.90
07349369	Macks Bayou at North Gate Rd., at Bossier City, La.	Lat 32°30'39", long 93°40'56", 500 ft west of Barksdale Air Force Base fence at North Gate Road at Bossier City.	--	1966-71	1971	<+58.80
07349380	Flat River at Taylortown, La.	Lat 32°23'20", long 93°35'15", at bridge 0.5 mile east of Taylortown.	95.8	1960-62b, 1963-71	1971	<+143.00
07349400	Flat River near Elm Grove, La.	Lat 32°19'45", long 93°31'20", at bridge 2.2 miles southeast of Elm Grove.	112	1960-71	1971	<+40.00
07349590	Ivan Lake near Cotton Valley, La.	Lat 32°49'45", long 93°29'20", Bossier Parish, at bridge 4.0 miles west of Cotton Valley.	37.8	1960-65b, 1966-71	12-20-70	201.34

† Gage datum; mean sea level of gage not determined.

< Less than amount shown.

a Corrected; arbitrary datum.

b Operated as a crest-stage partial-record station.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

Annual maximum elevation at flood-profile partial-record stations during water year 1971--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						
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.	--	1963-71	1971	<276.20
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 northwest of Plain Dealing.	--	1963-71	1971	<265.30
07349790	Little Cypress Bayou at Plain Dealing, La.	Lat 32°54'05", long 93°41'55", Bossier Parish, at bridge 0.3 mile southeast of Plain Dealing.	--	1963-71	7-24-71	+46.00
07349860	Red Chute Bayou at Sligo, La.	Lat 32°26'50", long 93°35'40", Bossier Parish, at bridge 0.5 mile west of Sligo.	980	1960-62b, 1963-71	10-28-70	+146.23
07349890	Red Chute Bayou near Elm Grove, La.	Lat 32°21'45", long 93°30'10", Bossier Parish, at bridge 3.0 miles northeast of Elm Grove.	1,004	1960-71	1971	<133.00
07349900	Swan Lake near Elm Grove, La.	Lat 32°16'55", long 93°27'05", Bossier Parish, at bridge 7.5 miles southeast of Elm Grove.	1,020	1961-71	1971	<130.81
07350300	Coushatta Bayou near Crichton, La.	Lat 32°07'10", long 93°24'10", Red River Parish, at bridge 1.8 miles east of Crichton.	15.9	1960-71	1971	<129.00
07350700	Bayou Pierre at Forbing, La.	Lat 32°27'20", long 93°44'05", Caddo Parish, at bridge on Pierremont Road, 3.4 miles southeast of Shreveport city hall.	--	1960-71	10-27-70	153.61
07350800	Bayou Pierre at Forbing, La.	Lat 32°23'35", long 93°43'25", Caddo Parish, at bridge 0.6 mile northeast of Forbine, and 8.1 miles south of Shreveport Post Office.	19	1960-65b, 1967-71	12-20-70	147.57
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 southeast of Shreveport city hall.	--	1963-64, 1967-71	1971	<142.60
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.	--	1963-71	9- 1-71	151.01
07350900	Bayou Pierre near Robson, La.	Lat 32°22'25", long 93°40'30", Caddo Parish, at bridge 2.0 miles northwest of Robson.	26.0	1960-71	12-20-70	138.13
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	1960-71	10-27-70	186.25
07351210	Brush Bayou tributary at Shreveport, La. (station discontinued).	Lat 32°26'19", long 93°47'49", Caddo Parish, at bridge on Jewella Road, 4.8 miles southwest of Shreveport city hall.	--	1963-71b	1971	<191.80
07351580	Bayou Pierre near Abington, La.	Lat 32°08'10", long 93°31'05", Red River Parish, at bridge 2.9 miles northwest of Abington.	406	1960-65b, 1966-71	9- 1-71	120.43
07351740	Bayou Pierre at Evelyn, La.	Lat 31°59'20", long 93°26'30", De Soto Parish, at bridge 0.2 mile northeast of Evelyn.	707	1950-65b, 1966-71	1971	<116.20
07351750	Bayou Pierre near Lake End, La.	Lat 31°53'40", long 93°20'30", Red River Parish, at bridge 2.9 miles southwest of Lake End.	860	1950-71	1971	<134.9
07352150	Saline Lake near Clarence, La.	Lat 31°51'10", long 92°56'10", 100 ft left of spillway, 5.9 miles northeast of Clarence.	421	1960-71	1971	<107.00
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	1960-65c, 1966-71	5-11-71	177.22
07352900	Saline Bayou at Allen Dam, near Clarence, La.	Lat 31°51'05", long 92°56'45", Bienville Parish, on right bank 5.3 miles northeast of Clarence.	1,349	1960-71	3- 2-71	101.13
07354740	Old River at Montrose, La.	Lat 31°34'25", long 92°59'40", Natchitoches Parish, at bridge at Montrose.	471	1960-65c, 1966-71	1971	<95.00
07354760	Cane River Lake near Montrose, La.	Lat 31°34'10", long 92°58'30", Natchitoches Parish, at floodgate, 1.2 miles southeast of Montrose.	34	1960-71	1971	<97.6

< Less than amount shown.

† Gage datum; mean sea level of gage not determined.

b Operated as a crest-stage partial-record station.

c Operated as a continuous-record gaging station.

e No mark for the period October 1970 to May 1971.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

135

Annual maximum elevation at flood-profile partial-record stations during water year 1971--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 2.2 miles northeast of Cloutierville.	582	1960-71	1971	<95.20
07355400	Bayou Marteau near Rock Hill, La.	Lat 31°25'30", long 92°35'50", Rapides Parish, at bridge 2.2 miles southwest of Rock Hill, and 5.0 miles northeast of Boyce.	--	1960-71	5- 8-71	78.42
07355475	Bayou Rapides near Alexandria, La.	Lat 31°18'43", long 92°33'38", Rapides Parish, at bridge 6.9 miles west of Alexandria city hall.	--	1963-65, 1968-71	1971	<81.90
07355490	Bayou Rapides at control structure at Alexandria, La.	Lat 31°17'59", long 92°29'42", Rapides Parish, at control structure, 3.1 miles west of Alexandria city hall.	--	1963-71	1971	<73.90
07371600	Dugdemona River near Dodson, La.	Lat 32°07'22", long 92°48'24", Winn Parish, at bridge 9.1 miles northwest of Dodson.	412	1959-71	9- 3-71	117.03
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.	--	1962-71	10-27-70	69.54
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.	--	1962-71	1971	<58.50
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.	--	1966-71	12-16-70	+5.63
07375410	Tangipahoa River at Tangipahoa, La.	Lat 30°52'36", long 90°29'44", Tangipahoa Parish, at bridge 1.0 mile east of Tangipahoa.	340	1959-65, 1967-71	9-17-71	+19.67
07375420	Tangipahoa River at Arcola, La.	Lat 30°46'36", long 90°29'53", Tangipahoa Parish, at bridge 0.7 mile east of Arcola.	381	1959-65, 1967-71	9-17-71	+21.18
07377150	Amite River at Grangeville, La.	Lat 30°44'10", long 90°50'30", St. Helena Parish, at bridge 0.5 mile southwest of Grangeville.	741	1951-63b, 1964-71	1971	<109.90
07377400	Comite River near Clinton, La.	Lat 30°51'30", long 91°02'20", East Feliciana Parish, at bridge 1.3 miles west of Clinton.	g112	1949-65b, 1969-71	9-16-71	177.15
07377750	Comite River near Zachary, La.	Lat 30°38'35", long 91°05'40", East Baton Rouge Parish, at bridge 3.7 miles east of Zachary.	230	1951-63b, 1964-71	1971	<79.64
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.	--	1962-71	1971	<50.64
07377780	White Bayou at State Highway 64, near Zachary, La.	Lat 30°38'56", long 91°07'53", East Baton Rouge Parish, at bridge 1.1 miles east of Zachary.	--	1962-71	10-27-70	87.17
07377840	White Bayou near Baton Rouge, La.	Lat 30°35'06", long 91°07'31", East Baton Rouge Parish, at bridge on Plank Road, 10.0 miles northeast of Baton Rouge Post Office.	--	1962-71	1971	<68.58
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.	--	1967-71	1971	<h67.50
07377900	Cypress Bayou at Plank Road, 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, 1967-71	1971	<54.75
07377920	Cypress Bayou at Hooper Road, 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.	--	1962-71	1971	<40.84
07377940	Blackwater Bayou near Baton Rouge, La.	Lat 30°32'06", long 91°04'53", East Baton Rouge Parish, at bridge on Hooper Road, 8.5 miles northeast of Baton Rouge Post Office.	14.1	1962-71	1971	<50.40

< Less than amount shown.

† Gage datum; mean sea level of gage not determined.

c Operated as a continuous-record gaging station.

g Includes Pretty Creek.

h Add 60.68 ft for mean sea level prior to 1971.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

Annual maximum elevation at flood-profile partial-record stations during water year 1971--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						
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.	--	1967-71	1971	<j41.81
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 north-east of Baton Rouge Post Office.	--	1962-71	1971	<40.62
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.	--	1967-71	9-16-71	†10.59
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 north-east of Baton Rouge Post Office.	--	1962-71	9-16-71	44.36
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.	--	1962-71	1971	<33.07
07378595	Jones Creek at Airline Highway, 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.		1967-71	10-27-70 2- 8-71	†4.53 †4.56
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.	--	1962-71	10-27-70 2- 8-71	39.75 39.02
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.	--	1967-71	9-16-71	†2.54
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.	--	1967-71	2- 8-71	k35.10
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.	--	1967-71	9-16-71	m33.78
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.	--	1962-71	10-27-70 2- 8-71	32.44 33.54
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.	--	1967-71	9-16-71	†9.46
07378700	Jones Creek near Woodlawn School, near Baton Rouge, La.	Lat 30°24'50", long 91°00'50", East Baton Rouge Parish, at bridge 1.6 miles north of Woodlawn School, 10.5 miles east of Baton Rouge Post Office.	19.5	1967-71	10-27-71 2- 8-71	n18.04 21.08
07378710	Amite River near Baton Rouge, La.	Lat 30°23'52", long 91°58'23", East Baton Rouge Parish, 3,400 ft downstream from Jones Creek and 13 miles southeast of Baton Rouge Post Office.	--	1968-71	9-16-71	p17.11
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.	--	1967-71	1971	<r27.40
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.	--	1967-71	9-16-71	t11.44
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.	--	1962-71	1971	<17.40
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, 1969-71	10-27-70	12.90
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.	--	1967-71	10-27-70	8.60

† Gage datum; mean sea level of gage not determined.

< Less than amount shown.

j Add 26.75 ft for mean sea level prior to 1971.

k Add 31.70 ft for mean sea level prior to 1971.

m Add 28.06 ft for mean sea level prior to 1971.

n Add 11.11 ft for mean sea level prior to 1971.

p Add 14.87 ft for mean sea level prior to 1971.

r Add 19.81 ft for mean sea level prior to 1971.

t Add 4.58 ft for mean sea level prior to 1971.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

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Annual maximum elevation at flood-profile partial-record stations during water year 1971--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						
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, 1969-71	10- 7-69 3- 3-70 9-16-71	d36.54 d34.72 v38.92
07379050	Ward Creek at Essen Lane, near Baton Rouge, La.	Lat 30°24'17", long 91°06'12", East Baton Rouge Parish, at bridge 5.7 miles southeast of Baton Rouge Post Office.	--	1962-71	9-16-71	24.93
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.	--	1967-71	9-16-71	w39.35
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.	--	1962-71	1971	<28.45
07379400	Dawson Creek at Perkins Road, 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.	--	1962-71	1971	<20.60
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	10-27-70	+23.38
07379503	Corporation Canal at East Roosevelt St., at Baton Rouge, La.	Lat 30°25'18", long 91°10'36", East Baton Rouge Parish, at bridge 2.0 miles southeast of Baton Rouge Post Office.	--	1971	10-27-70	+9.42
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	10-27-70	+18.29
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	10-27-70	+6.89
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	10-27-70	+15.45
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.	--	1962-71	1971	<19.40
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.	--	1962-71	1971	<19.92
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 north-east of Gonzales water tower.	--	1963-71	1971	<7.76
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.	--	1963-71	1971	<14.60
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 south-west of Gonzales water tower.	--	1963-71	1971	<6.80
07382256	Bayou Rapides-Boeuf-Cocodrie diversion channel at Alexandria, La.	Lat 31°17'43", long 92°29'38", Rapides Parish, at bridge on State Highway 28, 3.2 miles west of Alexandria city hall.	--	1963-71	1971	<76.70
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.	--	1963-71	1971	<67.30
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.	--	1963-71	1971	<69.20

< Less than amount shown.

† Gage datum; mean sea level of gage not determined.

d Corrected.

v Add 22.66 ft for mean sea level prior to 1970.

w Add 24.12 ft for mean sea level prior to 1971.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

Annual maximum elevation at flood-profile partial-record stations during water year 1971--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						
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.	--	1963-71	1971	<75.40
07382850	Horseshoe Drainage Canal at Packing House Road, at Alexandria, La.	Lat 31°16'25", long 92°26'15", Rapides Parish, at bridge 2.6 miles south of Alexandria city hall.	--	1960-71	10-13-70	70.12
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.	--	1963-71	10-13-70	+17.45
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, 6.7 miles southeast of Alexandria city hall.	--	1963-71	2-27-71	66.93
07383000	Chatlin Canal near LeCompte, La.	Lat 31°07'10", long 92°20'40", Rapides Parish, at bridge on State Highway 457, 3.7 miles northeast of LeCompte.	75.9	1943-58c, 1960, 1962-71	1971	<48.9
Mermentau River basin						
08011000	Bayou Plaquemine Brule near Crowley, La.	Lat 30°14'05", long 92°23'44", Acadia Parish, at bridge 1.2 miles northwest of Crowley.	252	1942-47b, 1965-71	1970 1971	<†e4.37 †6.86
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	1969-71	10- 6-70	+17.69
08012470	Bayou Lacassine near Lake Arthur, La.	Lat 30°04'12", long 92°52'43", Jefferson Davis Parish, at bridge on State Highway 14, 12.9 miles west of Lake Arthur.	299	1969-71	9-16-71	+12.75
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, 2.2 miles north-east of Slagle.	48.1	1959-71	2-27-71	+11.81
08015980	Kayouche Coulee at Prien Lake Road, at Lake Charles, La.	Lat 30°11'53", long 93°10'01", Calcasieu Parish, at bridge 3.6 miles southeast of Lake Charles city hall.	--	1963-71	10-27-70	+8.54
08017060	Bayou Contraband at Common St., at Lake Charles, La.	Lat 30°10'37", long 93°12'50", Calcasieu Parish, at bridge 3.4 miles south of Lake Charles city hall.	--	1963-71	10-27-70	8.88
08017065	Bayou Contraband at Lake St., at Lake Charles, La.	Lat 30°10'55", long 93°13'56", Calcasieu Parish, at bridge 3.1 miles southwest of Lake Charles city hall.	--	1963-71	1971	<6.80
08017070	Bayou Contraband tributary at Lake St., at Lake Charles, La.	Lat 30°13'29", long 93°12'56", Calcasieu Parish, at bridge 1.5 miles southwest of Lake Charles city hall.	--	1963-71	1971	<4.90
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	1964-71	1971	<108.20

< Less than amount shown.

† Gage datum; mean sea level of gage not determined.

a Corrected.

c Operated as a continuous-record gaging station.

SEEPAGE INVESTIGATION

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Cypress Creek seepage investigation

On Dec. 8, 1970, a series of related discharge measurements were made in the Cypress Creek basin, beginning with Bayou D'Arbonne near Dubach and ending with Bayou D'Arbonne. The investigations were made during a period of low flow to obtain information on gains and losses within the reach.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Bayou D'Arbonne	Ouachita River	Lat 32°40'50", long 92°39'10", in SW $\frac{1}{4}$ sec.35, T.20 N., R.3 W., near left bank on downstream side of bridge on U. S. Highway 167, 1.5 miles south of Dubach, and 8 miles upstream from Middle Fork Bayou D'Arbonne.	355	1940-69a	12- 8-70	19.2
Cypress Creek	Bayou D'Arbonne	Lat 32°35'33", long 92°39'37", in NE $\frac{1}{4}$ sec.34 T.19 N., R.3 W., Lincoln Parish, at bridge on State Highway 146, 0.7 mile west of Vienna.	-	-	12- 8-70	3.58
Do.....	do.....	Lat 32°37'04", long 92°39'07", in SW $\frac{1}{4}$ sec.23, T.19 N., R.3 W., Lincoln Parish, at bridge on parish road No. 84, 1.9 miles north of Vienna.	-	-	12- 8-70	4.10
Do.....	do.....	Lat 32°38'30", long 92°37'05", on line between sections 7 and 18, T.19 N., R.2 W., Lincoln Parish, at bridge on parish road No. 581, 2.3 miles southwest of Unionville.	-	-	12- 8-70	7.58
Do.....	do.....	Lat 32°39'35", long 92°35'15", in SE $\frac{1}{4}$ sec.5, T.19 N., R.2 W., Lincoln Parish, at bridge on State Highway 822, 3.2 miles east of Unionville.	63.3	1954-65b	12- 8-70	13.4
Bayou D'Arbonne	Ouachita River	Lat 32°41'40", long 92°38'16", in NW $\frac{1}{4}$ sec.26, T.20 N., R.2 W., Lincoln Parish, at bridge on State Highway 151, 6.1 miles east of Dubach.	464	-	12- 8-70	32.7

a Operated as a continuous-record gaging station.

b Operated as a crest-stage partial-record station.

PART 2. WATER QUALITY RECORDS

WATER-QUALITY RECORDS

PEARL RIVER BASIN

Q2489500 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 miles east of Bogalusa, and 2 miles upstream from Bogue Lusa Creek.

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

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1971.

Sediment records: April 1967 to September 1971.

EXTREMES.--1970-71:

Sediment concentrations: Maximum daily, 310 mg/l Mar. 1; minimum daily, 6 mg/l Dec. 9-11.

Sediment loads: Maximum daily, 26,000 tons Mar. 4; minimum daily, 39 tons Dec. 9-11.

Period of record:

Sediment concentrations: Maximum daily, 522 mg/l Dec. 17, 1967; minimum daily, 2 mg/l Nov. 11-13, 1970.

Sediment loads: 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 5 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 load.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
DEC. 21	3580	7.0	60	4.5	0.4	8.2	2.8	15	8.8	9.2
JAN. 20	--	8.3	300	6.4	1.2	6.8	1.8	14	17	6.7
MAR. 31	--	8.2	--	4.0	1.0	4.3	1.9	14	7.2	4.0
MAY 20	--	5.8	170	3.7	1.2	4.5	2.2	17	5.8	3.0
JUNE 23	--	11	160	3.0	1.1	11	1.1	18	11	8.8

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEMP- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
DEC. 21	0.1	1.2	62	49	13	1	80	14.0	30	6.1
JAN. 20	.0	1.2	70	56	21	10	86	9.0	30	6.3
MAR. 31	.1	.8	--	38	14	3	56	15.0	--	6.3
MAY 20	.1	.9	56	35	14	0	52	22.0	80	6.3
JUNE 23	.1	.4	74	57	12	0	89	28.0	40	6.7

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO ₄) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
DEC. 21	--	--	--	--	--	--	--	--	--
JAN. 20	11.0	1.4	21	--	--	--	8000	--	1400
MAR. 31	9.0	1.5	27	--	--	--	2000	340	550
MAY 20	7.1	1.0	20	--	--	--	1400	460	60
JUNE 23	7.4	1.3	--	--	--	--	--	100	180

02489500 PEARL RIVER NEAR BOGALUSA, LA.--Continued

Suspended sediment, water year October 1970 to September 1971

Day	OCTOBER			NOVEMBER			DECEMBER		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day
1..	1,970	13	69	4,510	26	317	2,860	16	124
2..	1,910	12	62	5,020	33	447	2,720	14	103
3..	1,750	12	57	4,830	35	456	2,640	10	71
4..	1,610	12	52	4,140	30	335	2,620	8	57
5..	1,520	11	45	3,620	27	264	2,700	10	73
6..	1,460	10	39	3,620	24	235	2,660	10	72
7..	1,820	25	123	3,370	22	200	2,530	8	55
8..	2,620	70	495	3,060	20	165	2,420	7	46
9..	2,730	71	523	2,900	18	141	2,380	6	39
10..	2,310	48	299	2,900	15	117	2,400	6	39
11..	1,940	33	173	2,910	13	102	2,420	6	39
12..	1,970	27	144	2,820	11	84	2,540	10	69
13..	3,310	72	643	2,660	10	72	3,120	30	253
14..	6,180	136	2,270	2,770	21	157	3,200	15	130
15..	8,320	210	4,720	3,500	46	435	2,960	13	104
16..	9,670	238	6,210	4,080	72	793	4,690	40	506
17..	9,100	214	5,260	4,860	76	997	7,140	--	---
18..	7,620	160	3,290	4,640	64	802	6,830	--	---
19..	6,470	100	1,750	3,990	46	496	5,420	--	---
20..	5,780	62	968	3,520	22	209	4,470	--	---
21..	6,230	72	1,210	3,610	15	146	4,100	--	---
22..	8,250	120	2,670	4,060	18	197	4,100	--	---
23..	9,560	140	3,610	4,540	24	294	4,060	--	---
24..	9,560	118	3,050	4,860	29	381	4,120	--	---
25..	9,140	96	2,370	4,810	28	364	4,500	--	---
26..	8,960	78	1,890	4,640	26	326	4,480	--	---
27..	8,480	61	1,400	4,470	24	290	4,660	--	---
28..	7,680	49	1,020	4,160	22	247	4,730	--	---
29..	6,300	38	646	3,690	20	199	4,870	--	---
30..	5,160	32	446	3,180	18	155	7,620	--	---
31..	4,560	28	345	-----	--	---	9,640	--	---
Total	163,940	--	45,849	115,740	--	9,423	125,600	--	---
Day	JANUARY			FEBRUARY			MARCH		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day
1..	11,000	---	-----	7,940	---	-----	19,800	310	16,600
2..	12,700	---	-----	7,340	---	-----	24,100	306	19,900
3..	13,600	---	-----	6,640	---	-----	30,700	277	23,000
4..	13,100	---	-----	6,160	---	-----	33,800	285	26,000
5..	13,200	---	-----	6,180	---	-----	34,900	267	25,100
6..	13,900	---	-----	6,560	---	-----	35,800	243	23,400
7..	12,600	---	-----	7,900	---	-----	37,100	218	21,800
8..	11,400	---	-----	10,500	---	-----	38,100	191	19,700
9..	10,500	---	-----	11,800	---	-----	38,500	165	17,100
10..	9,140	---	-----	11,600	---	-----	39,500	146	15,600
11..	7,970	---	-----	11,000	100	2,970	39,500	131	14,000
12..	7,500	---	-----	10,300	126	3,500	39,300	118	12,500
13..	6,990	---	-----	11,000	149	4,420	39,100	121	12,800
14..	6,280	---	-----	12,100	118	3,860	37,900	132	13,500
15..	5,770	---	-----	13,400	177	6,400	37,300	141	14,200
16..	5,660	---	-----	13,800	168	6,270	36,600	130	12,800
17..	6,470	---	-----	12,900	153	5,330	35,600	120	11,600
18..	8,180	---	-----	11,700	124	3,930	34,700	116	10,900
19..	9,250	---	-----	10,700	92	2,660	34,300	113	10,400
20..	9,140	---	-----	10,600	80	2,290	34,000	122	11,200
21..	8,390	---	-----	10,800	81	2,360	34,200	121	11,100
22..	7,690	---	-----	10,700	94	2,720	34,500	110	10,200
23..	7,530	---	-----	13,600	256	9,400	34,500	111	10,400
24..	8,180	---	-----	15,700	261	11,100	33,800	106	9,690
25..	7,460	---	-----	16,500	201	8,940	32,100	96	8,340
26..	6,040	---	-----	16,300	168	7,400	27,900	113	8,520
27..	5,780	---	-----	16,600	159	7,140	21,800	160	9,410
28..	8,140	---	-----	17,900	212	10,200	19,400	189	9,910
29..	9,490	---	-----	-----	---	-----	20,100	169	9,160
30..	8,980	---	-----	-----	---	-----	22,500	109	6,610
31..	8,330	---	-----	-----	---	-----	24,700	115	7,680
Total	280,360	---	-----	318,220	---	-----	1,006,100	---	433,120

02489500 PEARL RIVER NEAR BOGALUSA, LA.--Continued

Suspended sediment, water year October 1970 to September 1971

Day	APRIL			MAY			JUNE		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day
1..	24,900	85	5,730	7,980	83	1,790	11,000	103	3,060
2..	23,500	78	4,900	7,070	75	1,430	7,430	92	1,850
3..	21,800	78	4,610	7,440	73	1,470	5,820	80	1,260
4..	20,700	83	4,660	8,310	75	1,680	5,150	70	973
5..	20,600	98	5,460	8,980	77	1,870	4,760	58	745
6..	20,500	81	4,510	9,320	80	2,010	4,550	51	627
7..	18,700	92	4,640	9,700	82	2,150	4,430	46	550
8..	15,800	103	4,390	10,500	90	2,550	4,210	45	512
9..	13,200	106	3,780	11,600	97	3,030	4,280	42	485
10..	11,900	88	2,820	12,600	93	3,180	4,590	39	483
11..	11,000	82	2,420	12,100	86	2,810	4,280	40	462
12..	9,930	78	2,090	12,500	124	4,190	4,010	32	346
13..	8,780	71	1,680	18,800	223	11,300	3,700	23	230
14..	7,750	73	1,530	24,200	220	14,400	3,540	18	172
15..	7,100	60	1,150	27,300	151	11,100	3,390	14	128
16..	6,460	54	942	28,300	120	9,190	3,150	10	85
17..	5,480	61	903	29,300	109	8,600	3,040	14	115
18..	4,640	62	777	29,900	113	9,110	3,260	34	299
19..	4,280	47	543	30,500	122	10,100	2,990	21	170
20..	4,210	38	432	30,800	122	10,100	2,950	19	151
21..	4,350	48	564	32,400	125	10,900	3,010	18	146
22..	5,130	64	886	34,300	119	11,000	2,970	18	144
23..	6,300	89	1,510	35,100	114	10,800	3,100	20	162
24..	8,290	136	3,040	34,700	115	10,700	3,280	32	283
25..	10,600	188	5,370	34,700	113	10,600	3,600	48	467
26..	12,900	213	7,430	34,700	107	10,000	3,500	30	284
27..	13,400	158	5,730	35,400	101	9,670	3,450	23	214
28..	12,200	127	4,170	35,400	91	8,670	3,920	32	339
29..	10,600	109	3,120	34,700	87	8,200	3,870	28	293
30..	9,200	94	2,330	31,800	83	7,140	4,100	33	365
31..	-----	---	-----	20,500	95	5,230	-----	---	-----
Total	354,200	---	92,117	700,900	---	214,970	125,330	---	15,405
	JULY			AUGUST			SEPTEMBER		
	Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment		Mean discharge (cfs)	Suspended sediment	
		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day		Mean concentration (ppm)	Tons per day
1..	4,280	42	485	8,720	124	2,920	2,870	21	163
2..	4,510	66	804	11,200	156	4,710	2,750	27	200
3..	5,040	98	1,330	11,900	132	4,240	2,880	23	179
4..	5,970	124	2,000	12,200	106	3,430	3,230	27	235
5..	6,060	112	1,830	12,100	94	3,020	3,520	30	285
6..	4,950	88	1,180	11,800	86	2,700	3,760	30	305
7..	3,980	70	752	11,600	78	2,410	3,670	28	277
8..	3,600	57	554	11,000	74	2,190	3,440	24	223
9..	3,500	48	454	10,000	70	1,890	3,300	20	178
10..	3,600	42	408	8,840	66	1,580	3,160	23	196
11..	3,640	37	364	7,890	62	1,320	3,320	27	242
12..	3,570	33	318	7,930	57	1,220	4,070	28	308
13..	3,370	30	273	7,900	62	1,320	4,190	25	283
14..	3,180	27	232	6,960	64	1,200	3,520	21	200
15..	3,020	26	212	5,820	56	880	3,020	18	147
16..	2,920	25	197	5,070	49	671	3,400	34	312
17..	2,800	22	166	4,680	38	480	5,580	63	949
18..	2,740	22	163	4,380	35	414	8,550	154	3,560
19..	2,820	22	168	4,060	34	373	14,500	225	8,800
20..	2,800	26	197	3,740	24	242	17,800	200	9,620
21..	4,100	70	775	3,230	22	192	18,000	137	6,660
22..	5,840	59	930	2,950	25	199	14,500	90	3,540
23..	4,480	36	435	2,990	21	170	10,400	74	2,080
24..	3,700	33	330	3,040	15	123	8,210	66	1,460
25..	3,830	39	403	2,950	17	135	7,730	60	1,250
26..	4,100	51	565	2,820	20	152	7,870	56	1,190
27..	4,160	58	651	2,750	17	126	7,080	52	994
28..	4,270	51	588	2,650	14	100	6,320	44	751
29..	4,240	40	458	2,460	13	86	5,870	40	634
30..	4,760	51	655	2,370	13	83	5,490	40	593
31..	6,660	81	1,460	2,490	15	101	-----	---	-----
Total	126,590	---	19,337	198,490	---	38,677	192,000	---	45,814

RED RIVER BASIN

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07344400 RED RIVER NEAR HOSSTON, La.

LOCATION.--Lat 32°53'35", long 93°49'20", in SW $\frac{1}{4}$ 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 1971.

Water temperatures: March 1957 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 1,020 micromhos July 9; minimum daily, 184 micromhos Nov. 8, 11.

Water temperatures: Maximum 32°C July 3-7; minimum, 3°C Jan. 8.

Period of record:

Specific conductance: Maximum daily, 1,950 micromhos Aug. 15, 1964; minimum daily, 152 micromhos May 15, 1961.

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 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 8	7800	7.2	20	32	4.1	17	2.8	108	19	21
NOV. 5	15600	5.5	90	22	3.2	11	2.6	78	12	13
DEC. 16	4670	6.3	20	57	25	98	4.3	192	84	152
JAN. 20	11500	7.0	90	31	6.9	38	1.6	87	37	59
MAR. 3	15000	5.6	70	27	3.8	22	2.1	79	25	30
APR. 20	4000	6.5	10	53	13	64	2.3	156	51	97
JUNE 2	5500	2.3	10	44	9.7	54	2.6	129	46	81
JULY 21	3380	1.9	10	59	16	85	3.0	172	65	134
AUG. 12	--	7.5	10	47	10	33	2.4	189	20	41
SEPT. 28	2200	8.7	40	69	18	72	3.3	242	55	98

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 8	0.2	1.0	164	157	97	8	280	23.0	15	7.4
NOV. 5	.1	.3	130	108	68	4	193	13.0	30	7.1
DEC. 16	.2	.3	588	522	247	89	971	12.0	15	7.7
JAN. 20	.1	.1	240	224	106	35	421	7.0	10	7.4
MAR. 3	.2	.6	165	155	83	18	282	8.0	30	6.9
APR. 20	.2	1.2	395	365	184	56	677	18.5	15	7.1
JUNE 2	.2	.0	333	304	150	44	557	27.0	20	7.2
JULY 21	.2	.1	513	449	214	73	843	27.0	20	7.4
AUG. 12	.2	.1	272	254	160	5	460	--	20	7.2
SEPT. 28	.3	.1	474	443	245	46	823	24.5	10	7.0

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, IA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490	200	564	683	494	253	420	259	511	898	439	923
2	372	292	572	654	425	258	478	307	566	678	380	882
3	411	212	600	690	408	311	521	304	524	582	408	826
4	264	197	730	758	434	387	535	300	445	528	385	799
5	265	190	843	760	578	324	590	341	475	493	453	913
6	251	186	815	827	494	271	563	490	438	586	526	777
7	243	187	822	785	442	300	523	624	416	635	498	861
8	252	184	717	833	422	298	584	702	424	610	481	980
9	271	186	657	535	458	285	725	523	488	1,020	477	994
10	325	193	793	393	516	339	687	457	509	904	426	335
11	342	184	749	352	415	501	643	534	435	852	442	305
12	287	192	886	437	385	508	653	547	407	804	358	286
13	341	233	962	496	395	463	564	454	361	861	416	302
14	451	231	972	741	333	437	621	421	357	808	483	351
15	629	263	937	818	243	303	641	344	355	807	497	371
16	227	292	976	787	253	220	981	265	379	905	425	445
17	269	273	984	648	269	200	902	272	367	982	335	583
18	213	278	799	612	328	200	826	245	408	903	348	602
19	228	403	748	522	330	205	757	274	663	889	653	587
20	247	391	655	430	347	289	692	351	674	940	1,010	615
21	278	501	623	376	--	297	637	311	574	846	953	751
22	288	430	581	301	--	263	567	301	522	676	873	748
23	270	364	524	265	--	227	417	336	538	768	596	723
24	265	326	500	275	--	219	395	329	578	848	588	544
25	319	334	500	324	--	253	441	327	863	855	404	750
26	331	619	718	307	--	267	293	351	868	841	545	847
27	304	689	808	348	--	272	264	359	595	771	686	824
28	317	671	675	440	--	294	274	569	588	665	745	816
29	262	660	759	471	--	327	287	662	695	651	795	--
30	282	583	751	700	--	388	269	460	658	636	860	--
31	230	--	678	746	--	395	--	465	--	504	959	--
AVERAGE	307	320	737	558	--	308	558	402	522	766	562	669

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	15	12	8	10	13	17	21	26	31	24	29
2	21	15	11	8	10	13	16	21	26	e 31	24	29
3	21	14	11	8	11	11	16	21	26	32	24	29
4	21	13	10	8	e 10	9	17	21	27	32	23	29
5	21	13	10	6	9	10	16	21	27	32	23	29
6	21	13	10	4	9	10	15	21	27	32	24	29
7	19	13	9	e 4	10	10	16	22	27	32	25	29
8	18	14	9	3	9	9	17	22	28	31	25	e 29
9	18	14	10	4	8	10	17	22	28	31	26	29
10	18	14	10	4	8	11	e 17	22	28	31	26	29
11	18	14	9	5	8	11	18	21	28	31	27	e 29
12	18	14	9	5	7	11	18	21	27	31	27	29
13	17	e 14	9	5	7	12	19	21	27	31	27	29
14	17	14	9	5	7	13	18	21	29	31	27	29
15	17	12	9	5	7	13	18	21	29	31	29	28
16	17	12	9	5	8	12	21	21	29	31	29	28
17	16	11	e 9	5	9	12	19	21	29	31	30	28
18	16	11	9	5	11	e 12	20	21	29	31	30	28
19	16	12	9	4	e 11	13	20	22	29	31	29	27
20	16	12	9	4	e 11	10	20	22	29	31	29	e 25
21	15	12	9	4	11	10	20	22	29	30	29	23
22	15	12	9	7	10	14	21	22	29	29	29	21
23	16	12	9	7	10	11	21	22	28	29	29	e 21
24	16	10	9	8	10	12	22	23	29	27	29	e 21
25	16	9	8	10	11	10	21	23	29	26	29	21
26	15	11	8	11	12	13	21	24	29	26	30	e 21
27	16	11	8	9	12	13	22	24	29	25	31	e 21
28	15	11	8	9	12	13	22	24	31	25	31	e 21
29	15	11	8	11	--	14	22	25	31	24	31	e 21
30	15	11	8	13	--	16	20	25	31	25	30	e 21
31	15	--	8	11	--	17	--	25	--	25	30	e 21
AVERAGE	17	12	9	7	9	12	19	22	28	30	28	26

e Estimated

RED RIVER BASIN

147

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA.

LOCATION.--Lat 32°59'40", long 93°23'48", in NE⁷₄NE₄ sec.16, T.23 N., R.10 W., Webster Parish, at gaging station at 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.--Chemical analyses: October 1957 to September 1958, October 1961 to September 1962, October 1967 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 13	21	9.7	0	38	7.8	180	4.7	22	5.8	346
NOV. 18	340	10	0	22	4.4	78	4.3	11	9.6	158
DEC. 15	40	14	60	31	6.5	135	4.3	18	4.2	272
JAN. 20	90	14	10	29	5.7	115	2.1	13	7.8	228
MAR. 4	288	11	30	16	2.7	58	2.0	11	7.6	110
APR. 21	163	8.4	0	18	4.9	65	2.1	30	5.2	127
JUNE 3	25	15	10	16	3.9	51	1.8	27	4.4	100
SEPT. 28	51	13	80	20	7.8	50	2.4	45	7.2	104

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 13	0.2	0.2	--	603	127	109	1210	18.0	15	6.7
NOV. 18	.1	.3	--	292	73	64	571	8.0	20	6.9
DEC. 15	.1	.2	--	476	104	89	933	14.0	15	6.8
JAN. 20	.1	.0	491	408	96	85	808	5.0	10	6.2
MAR. 4	.2	.2	226	213	51	42	417	10.0	20	6.2
APR. 21	.1	.3	308	246	65	40	493	17.5	20	6.2
JUNE 3	.1	.9	262	206	56	34	395	24.0	20	6.3
SEPT. 28	.2	.4	279	227	82	45	443	22.0	20	6.3

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,550	--	--	--	660	400	430	--	405	1,320	375	490
2	1,500	--	--	--	655	400	430	--	440	950	410	500
3	1,500	--	--	--	655	395	420	--	435	900	475	510
4	1,520	--	--	--	665	400	440	--	420	790	500	560
5	1,560	--	--	--	660	440	440	--	415	740	480	660
6	1,520	--	--	--	650	475	440	--	420	740	440	680
7	1,500	--	--	--	650	480	460	--	500	840	460	660
8	1,490	--	--	--	650	495	480	--	550	800	430	650
9	1,500	--	--	--	650	495	480	--	555	640	400	640
10	2,370	--	--	--	650	510	490	--	555	560	395	640
11	2,200	--	--	--	645	520	520	--	555	530	390	635
12	2,100	--	--	--	620	530	540	--	560	540	390	630
13	2,000	--	--	--	560	380	e 560	--	560	--	390	630
14	1,500	--	--	--	560	320	--	160	580	--	385	635
15	1,140	--	--	--	580	330	--	175	610	--	400	640
16	840	--	--	--	540	315	--	190	640	--	400	640
17	740	--	--	--	520	315	--	200	710	--	400	645
18	670	--	--	--	535	315	--	230	700	--	400	645
19	670	--	--	--	555	320	--	240	705	--	385	660
20	720	--	--	--	500	370	--	250	720	850	350	680
21	960	--	--	--	480	420	--	260	730	860	315	680
22	990	--	--	--	470	440	--	265	740	850	315	685
23	1,040	--	--	--	380	435	--	280	880	640	315	550
24	1,750	--	--	--	350	430	--	310	1,100	180	350	550
25	1,300	--	--	--	365	510	--	330	1,100	400	310	840
26	1,140	--	--	--	385	550	--	350	1,100	340	350	880
27	1,250	--	--	--	395	600	--	360	1,080	270	420	800
28	1,120	--	--	--	400	640	--	360	1,100	260	450	540
29	1,080	--	--	--	--	680	--	365	1,150	250	450	420
30	790	--	--	--	--	600	--	375	980	250	480	390
31	710	--	--	--	--	470	--	380	--	340	480	--
AVERAGE	1,314	--	--	--	549	451	--	--	700	--	403	626

e Estimated

RED RIVER BASIN

149

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 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 22	--	8.2	130	17	4.0	67	2.4	30	5.6	126
NOV. 17	--	11	130	25	5.0	100	4.0	15	10	198
DEC. 22	--	10	160	18	2.2	55	4.1	17	9.4	105
JAN. 26	--	13	20	24	0.8	96	2.0	14	8.6	195
FEB. 24	--	9.0	--	15	3.5	56	2.8	10	8.6	113
MAR. 18	--	7.6	80	11	2.6	39	2.4	10	6.6	77
APR. 22	--	11	70	18	3.9	62	2.8	25	6.6	122
MAY 19	--	9.2	190	7.3	1.4	27	2.5	28	5.2	40
JUNE 14	--	12	--	16	2.4	49	1.5	28	4.6	90
JULY 28	--	11	70	14	3.6	44	2.0	37	5.6	78
AUG. 18	--	11	190	13	3.0	45	1.3	22	4.4	83
SEPT. 22	--	11	18	16	4.4	54	2.5	41	3.2	96

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEMP- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 22	0.1	0.6	278	246	59	34	469	17.5	25	6.7
NOV. 17	.1	.3	479	360	83	71	720	10.0	40	6.3
DEC. 22	.1	.5	270	212	54	40	420	15.0	40	6.6
JAN. 26	.0	.3	473	353	88	77	702	12.0	10	6.3
FEB. 24	.1	.5	304	214	52	44	425	11.0	100	6.1
MAR. 18	.2	.6	195	152	38	30	280	16.0	60	6.0
APR. 22	.1	.4	296	239	61	40	467	21.0	40	6.5
MAY 19	.1	.7	133	107	24	1	191	22.0	70	6.8
JUNE 14	.2	.5	253	190	50	27	357	30.0	60	6.8
JULY 28	.2	.4	218	177	50	20	338	22.0	40	6.4
AUG. 18	.2	.7	220	173	45	27	333	28.0	70	6.7
SEPT. 22	.1	.5	256	208	58	24	395	25.0	50	6.7

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO ₄) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 22	9.0	0.9	31	--	--	15	1600	--	20
NOV. 17	9.8	1.8	63	--	0.20	0	1900	360	--
DEC. 22	8.1	2.1	61	--	.26	30	--	5900	--
JAN. 26	11.0	2.0	19	--	.07	6	200	--	--
FEB. 24	10.0	1.9	37	0.00	.21	12	860	--	--
MAR. 18	8.1	1.3	85	.00	.19	22	350	220	--
APR. 22	6.7	1.1	29	--	.11	0	--	28	18
MAY 19	5.5	.7	39	--	.31	6	1200	120	40
JUNE 14	8.4	2.1	23	--	.11	0	--	16	3
JULY 28	5.2	1.7	33	.00	.09	31	2800	210	130
AUG. 18	6.0	1.3	39	.00	.16	18	560	150	15
SEPT. 22	4.6	1.5	17	.00	.10	32	16000	20	45

07349450 BODCAU BAYOU NEAR SPRINGHILL, LA.

LOCATION.--Lat 33°00'15", long 93°30'56", in NE¼ sec.8, T.23 N., R.11 W., Bossier-Webster Parish line, at bridge on State Highway 157, 0.8 mile upstream from Teague Branch, and 2.9 miles west of water tower at Springhill.

DRAINAGE AREA.--415 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-71 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 13	140	7.4	10	6.9	1.4	13	1.1	20	5.0	22
NOV. 18	360	4.4	20	5.8	1.3	13	1.0	16	3.4	23
DEC. 15	340	4.9	20	5.8	1.3	14	1.0	14	3.2	26
JAN. 20	290	1.7	0	9.6	2.4	32	1.4	6	2.4	69
MAR. 15	380	6.2	20	7.5	2.7	24	1.4	16	11	43
APR. 21	60	5.8	10	8.7	3.5	26	1.2	24	8.4	44
JUNE 3	100	7.3	10	9.8	2.8	23	1.6	27	5.0	43
JULY 20	100	7.1	20	12	4.4	26	1.8	32	4.4	52
AUG. 25	100	8.6	20	11	2.8	24	1.7	29	3.6	46
SEPT. 28	120	9.9	90	12	4.9	25	1.5	37	3.4	50

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 13	0.1	0.2	77	67	23	7	120	19.0	10	6.4
NOV. 18	.1	.1	77	60	20	7	113	11.0	15	6.4
DEC. 15	.1	.1	76	63	20	9	123	14.0	10	6.1
JAN. 20	.1	.1	152	122	34	29	265	6.0	10	6.1
MAR. 15	.1	.3	114	104	30	17	200	15.0	15	6.5
APR. 21	.1	.5	127	110	36	16	220	17.0	10	6.5
JUNE 3	.2	1.1	141	107	36	14	194	24.0	10	6.4
JULY 20	.1	.2	158	124	46	22	240	27.0	20	6.6
AUG. 25	.2	.4	142	112	39	15	223	26.0	15	6.7
SEPT. 28	.1	.3	159	125	50	20	227	24.0	15	6.3

RED RIVER BASIN

151

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 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 22	--	5.2	40	26	4.9	12	2.3	83	16	20
NOV. 17	--	8.3	20	27	5.0	21	3.2	93	14	29
DEC. 22	--	5.6	80	43	8.9	60	4.8	119	47	88
JAN. 26	--	0.0	20	25	5.5	28	1.5	77	22	41
FEB. 24	--	5.1	30	26	4.9	34	2.8	73	28	49
MAR. 17	--	5.2	20	26	5.6	29	2.4	80	25	42
APR. 7	--	6.4	30	41	9.1	49	2.8	126	36	71
MAY 19	--	8.2	30	23	4.5	25	2.8	69	18	37
JUNE 15	--	.6	20	33	6.2	42	1.8	96	34	56
JULY 28	--	1.5	10	52	16	86	2.8	123	73	144
AUG. 18	--	5.8	10	36	7.3	47	1.5	121	28	64
SEPT. 22	--	8.2	10	37	9.4	55	3.0	116	33	85

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEMP- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 22	0.1	0.9	140	128	85	17	229	17.0	5	7.9
NOV. 17	.1	.5	169	154	88	12	264	12.5	30	7.4
DEC. 22	.2	.4	330	317	144	46	579	16.5	20	7.5
JAN. 26	.0	1.0	184	168	85	22	299	12.0	20	7.3
FEB. 24	.2	.3	197	186	85	25	341	11.0	--	7.2
MAR. 17	.2	.8	170	176	86	22	287	19.0	60	7.2
APR. 7	.1	.2	304	278	140	37	504	16.0	30	7.4
MAY 19	.1	.2	171	153	76	99	281	23.5	40	7.5
JUNE 15	.2	.2	237	221	108	29	409	31.0	30	7.4
JULY 28	.2	.3	480	437	194	93	820	--	35	7.7
AUG. 18	.2	.2	279	250	120	21	456	29.0	10	8.0
SEPT. 22	.1	.2	264	268	131	36	531	26.0	30	7.9

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 22	--	6.2	35	--	--	378	52000	--	8800
NOV. 17	10.4	2.1	51	--	0.68	328	70000	3700	--
DEC. 22	9.3	4.5	40	--	.82	195	--	--	--
JAN. 26	9.6	.7	0	--	.22	223	21000	--	--
FEB. 24	11.0	4.9	25	0.00	.34	184	67000	--	700
MAR. 17	9.0	3.3	94	.26	.46	247	120000	1300	--
APR. 7	9.5	2.8	15	--	.18	2	42000	200	700
MAY 19	7.1	1.3	20	--	.31	105	22000	100	2300
JUNE 15	8.7	2.7	21	--	.04	227	--	56	1400
JULY 28	7.1	3.1	33	.00	.14	370	25000	200	2600
AUG. 18	7.2	2.7	31	.00	.31	0	8200	700	1700
SEPT. 22	7.5	3.5	19	.00	.14	92	19000	130	3000

RED RIVER BASIN

07364200 Bayou Bartholomew near Jones, La.

LOCATION.--Lat 32°59'25", long 91°39'20", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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.--Chemical analyses: October 1957 to September 1958, October 1967 to September 1971.
Water temperatures: October 1958 to September 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 8	105	13	10	35	7.9	24	3.7	164	6.4	27
DEC. 1	132	14	10	24	0.3	15	4.0	117	6.4	15
DEC. 8	131	--	--	--	--	--	--	--	--	--
JAN. 28	495	12	290	14	4.3	9.3	3.3	61	10	13
MAR. 16	913	7.1	220	8.0	1.7	7.2	4.0	30	11	5.9
APR. 22	350	7.2	20	12	3.2	11	2.5	59	11	8.5
JUNE 10	469	8.7	60	11	2.8	8.0	2.6	48	8.4	8.0
JULY 22	113	14	10	25	0.2	17	3.0	120	5.8	18
AUG. 26	--	3.1	50	12	3.4	6.5	3.8	60	4.0	5.2
SEPT. 28	142	18	--	24	0.3	16	2.9	121	3.8	14

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 8	0.2	0.1	200	198	120	0	350	23.0	10	7.5
DEC. 1	.2	.1	152	143	80	0	249	12.0	10	7.1
DEC. 8	--	--	--	--	--	--	261	10.0	--	--
JAN. 28	.1	.8	116	97	53	3	165	6.0	60	7.0
MAR. 16	.2	1.0	106	61	27	3	100	18.0	100	6.6
APR. 22	.1	.1	94	85	43	0	141	22.0	25	6.6
JUNE 10	.1	.3	88	74	39	0	124	19.0	35	6.6
JULY 22	.2	.1	148	146	88	0	265	28.0	10	7.1
AUG. 26	.2	.4	91	69	44	0	124	--	40	6.8
SEPT. 28	.1	.7	153	146	80	0	235	24.0	30	7.4

RED RIVER BASIN

153

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 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 22	--	12	60	22	5.6	18	3.0	102	8.2	20
NOV. 16	--	13	40	16	3.9	12	4.0	78	6.2	12
DEC. 21	--	8.2	60	10	2.9	8.2	4.3	47	7.6	6.5
JAN. 26	--	9.6	90	11	3.0	8.5	2.3	43	9.4	11
FEB. 24	--	6.8	--	5.9	2.3	5.0	2.5	24	9.2	4.2
MAR. 18	--	7.3	50	6.6	2.3	6.9	2.6	26	10	5.2
APR. 22	--	9.9	150	10	3.4	8.4	2.7	46	9.2	8.3
MAY 19	--	8.4	120	5.7	1.4	13	2.5	44	5.0	4.8
JUNE 15	--	11	--	11	2.6	8.5	1.8	47	4.6	8.3
JULY 8	--	13	20	16	4.4	23	2.2	85	8.2	16
AUG. 17	--	11	50	12	3.6	14	2.0	57	7.8	14
SEPT. 22	--	10	120	22	6.7	74	2.9	40	11	136

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 22	0.1	0.9	145	140	78	0	232	19.0	40	7.4
NOV. 16	.1	.6	126	106	56	0	176	11.0	60	6.9
DEC. 21	.1	.4	91	71	37	0	114	14.0	50	6.8
JAN. 26	.0	.8	109	77	40	5	126	10.0	30	7.0
FEB. 24	.1	1.4	70	49	24	4	70	12.0	160	6.8
MAR. 18	.2	1.2	64	55	26	5	78	15.0	90	6.6
APR. 22	.1	1.0	96	76	39	1	126	21.5	100	6.8
MAY 19	.1	1.0	86	64	20	0	103	21.5	55	6.8
JUNE 15	.2	1.3	101	72	38	0	123	--	60	7.1
JULY 8	.3	.6	153	125	58	0	225	30.0	100	7.1
AUG. 17	.1	1.3	108	94	45	0	159	29.0	20	7.6
SEPT. 22	.2	1.3	316	284	70	37	486	25.0	70	6.8

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 22	9.2	1.3	26	--	--	43	15000	--	6800
NOV. 16	9.5	1.5	32	--	0.60	42	5000	1600	--
DEC. 21	9.5	3.5	33	--	1.6	200	160000	20000	--
JAN. 26	10.0	1.3	28	--	.50	24	400	--	--
FEB. 24	9.3	2.3	42	--	.72	84	1800	--	--
MAR. 18	8.5	1.8	94	0.00	.60	167	7000	--	--
APR. 22	6.9	.9	19	--	.90	76	--	56	43
MAY 19	7.1	.7	20	--	.68	74	1200	56	200
JUNE 15	--	--	18	--	.25	41	800	620	430
JULY 8	6.3	1.4	12	.00	.36	10	--	8	36
AUG. 17	6.7	.6	29	.00	.37	57	1600	120	170
SEPT. 22	6.3	1.9	18	.00	.12	66	300	68	--

07364700 BAYOU DE LOUTRE NEAR LARAN, LA.

LOCATION.--Lat 32°57'20", long 92°29'59", in NW¹ sec.29, T.23 N., R.1 W., Union Parish, at gaging station at bridge 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.--Chemical analyses: October 1957 to September 1958, October 1967 to September 1971.
Water temperatures: October 1967 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 4,020 micromhos June 27; minimum daily, 343 micromhos Aug. 1.
Water temperatures: Maximum daily, 32°C June 12, 14-16, 22, 23; minimum daily, 3°C Jan. 6, 7, 20.

Period of record:

Specific conductance: Maximum daily, 11,600 micromhos July 24, 1969; minimum daily, 115 micromhos Jan. 11, 1968.
Water temperatures: Maximum, 32°C June 12, 14-16, 1971; minimum, 1°C Jan. 11-13, Feb. 22, 1968, Jan. 10, 20, Feb. 4, 1970.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 15	134	12	20	64	13	250	7.0	27	44	494
NOV. 16	190	10	20	49	9.6	164	6.2	12	33	340
DEC. 7	57	9.8	20	107	19	375	10	48	64	767
JAN. 19	62	10	20	97	21	372	8.4	36	41	764
APR. 13	42	1.8	0	53	11	230	3.2	57	27	446
JUNE 1	23	9.7	10	80	12	372	6.9	75	43	680
JULY 15	10	12	10	74	12	310	5.9	78	30	579
AUG. 12	90	12	20	39	6.5	132	2.8	45	8.0	260
SEPT. 29	24	9.0	50	78	17	373	5.1	60	51	695

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 15	0.2	--	1090	897	212	190	1760	18.0	15	6.2
NOV. 16	.2	--	756	618	162	152	1230	7.0	15	6.0
DEC. 7	.4	--	1690	1380	345	305	2670	14.0	15	6.7
JAN. 19	.4	--	1640	1330	328	298	2600	6.0	20	6.5
APR. 13	.5	0.4	970	801	176	129	1610	20.0	25	6.0
JUNE 1	.4	.3	1410	1240	249	187	2370	11.0	15	6.3
JULY 15	.4	.4	1260	1060	235	171	2070	26.0	20	6.2
AUG. 12	.4	.6	608	483	124	87	942	27.0	25	6.1
SEPT. 29	.3	.4	1530	1260	266	217	2470	24.0	20	6.6

07364700 BAYOU DE LOUTRE NEAR LARAN, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,810	2,680	2,600	1,640	2,920	1,300	873	1,510	e 2,370	3,220	343	3,330
2	2,970	2,920	2,990	1,630	3,230	1,310	952	1,540	2,870	2,690	362	3,330
3	3,350	2,910	3,000	1,630	3,540	1,570	944	1,430	2,840	2,610	361	3,210
4	3,310	3,160	3,080	1,630	3,550	1,580	937	1,600	3,320	1,600	547	3,280
5	3,750	3,140	3,100	1,630	3,300	1,750	1,070	1,620	3,300	1,600	548	3,310
6	3,740	3,390	3,110	1,900	3,480	1,950	1,080	1,610	3,100	1,190	792	3,320
7	3,910	3,400	3,090	1,910	3,510	1,950	1,200	1,460	3,070	1,170	791	3,290
8	3,620	2,220	3,440	1,860	3,100	1,960	1,250	1,000	1,580	1,240	972	3,180
9	3,640	2,230	3,450	1,860	3,100	1,960	1,360	1,010	1,560	1,670	1,120	3,000
10	2,230	2,360	3,260	1,960	2,900	1,880	1,340	991	2,220	1,670	1,120	2,820
11	2,240	1,980	3,260	2,070	2,780	1,680	1,440	1,050	2,220	1,790	964	2,560
12	2,010	1,970	2,970	2,350	1,560	1,460	1,640	960	2,880	1,770	1,220	2,590
13	2,020	2,050	2,960	2,520	1,550	1,070	1,070	566	2,910	1,850	1,210	2,560
14	1,750	2,900	2,960	2,420	1,670	e 1,090	843	529	3,240	3,570	1,360	2,620
15	e 1,760	2,910	2,940	2,360	1,680	e 1,100	876	885	3,250	2,060	1,370	2,550
16	1,970	1,210	2,890	2,490	1,740	1,110	2,280	897	3,340	2,250	1,670	2,570
17	1,870	1,180	2,900	2,500	1,750	914	2,480	964	3,370	2,340	1,690	3,360
18	2,170	1,280	657	2,670	1,760	826	2,490	973	3,400	2,760	1,880	3,380
19	2,190	1,280	617	2,660	1,550	999	2,450	1,090	3,380	2,980	2,120	3,940
20	2,120	1,570	651	2,690	1,370	1,140	2,400	1,220	2,650	3,630	2,350	3,940
21	2,110	1,570	652	2,980	1,280	1,150	2,380	1,370	2,650	3,130	e 2,550	1,080
22	2,860	1,840	925	2,850	1,010	1,070	1,500	1,730	3,000	2,100	2,740	1,030
23	2,880	1,850	937	2,860	1,250	1,230	471	1,730	3,010	2,040	2,930	774
24	2,620	2,090	1,620	2,570	1,240	1,230	479	1,940	3,670	1,010	3,030	764
25	2,440	2,620	1,630	2,580	1,280	1,330	616	2,270	3,670	999	2,030	1,320
26	2,430	2,620	1,910	2,580	1,350	1,330	927	2,230	3,750	770	1,850	1,320
27	2,230	2,790	1,910	2,680	1,370	1,430	1,180	2,360	4,020	764	1,840	2,200
28	2,210	3,160	2,250	2,490	1,280	1,610	1,360	2,380	3,770	824	1,840	2,210
29	2,540	3,160	2,260	2,380	--	1,340	1,520	2,170	3,980	824	1,940	2,280
30	2,530	2,650	1,730	2,390	--	1,350	1,570	2,130	4,370	470	2,310	e 2,740
31	2,680	--	e 1,680	2,540	--	1,110	--	2,090	--	473	2,320	--
AVERAGE	2,620	2,370	2,210	2,300	2,150	1,380	1,370	1,460	3,090	1,841	1,560	2,600

e Estimated

TEMPERATURE (° C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	12	14	7	9	13	17	20	e 25	28	23	25
2	21	12	16	7	5	13	8	22	26	26	22	26
3	21	9	16	10	8	11	19	18	26	28	23	26
4	21	8	14	8	11	8	20	16	28	28	23	26
5	21	8	14	4	9	9	17	19	28	28	23	26
6	19	11	14	3	9	12	14	21	27	28	24	26
7	21	11	12	3	9	12	13	21	28	27	24	25
8	20	11	10	4	8	10	16	21	29	28	24	27
9	18	11	9	6	7	11	17	22	29	30	24	26
10	17	11	8	8	6	12	18	22	30	28	24	26
11	17	10	5	8	5	14	18	21	31	30	25	26
12	17	10	5	11	8	16	17	17	32	31	25	26
13	16	10	4	13	10	18	20	17	31	28	26	25
14	16	8	7	16	10	17	19	17	32	29	26	25
15	e 16	6	8	13	10	16	21	18	32	29	26	25
16	16	7	9	12	11	16	19	19	32	28	26	24
17	14	7	7	10	12	15	21	19	31	27	26	24
18	14	8	8	8	13	14	24	21	31	28	25	24
19	14	8	9	5	11	17	22	22	30	27	26	22
20	14	9	12	3	13	16	23	23	31	27	27	20
21	14	11	14	5	14	13	21	22	31	25	27	20
22	16	11	13	6	11	13	21	22	32	25	26	21
23	17	8	13	8	10	12	21	23	32	24	27	20
24	18	8	10	9	8	11	21	24	30	23	26	20
25	19	10	8	12	11	10	21	23	31	23	25	22
26	17	13	5	11	14	12	19	23	31	23	26	23
27	16	15	6	8	14	13	22	23	31	23	26	24
28	14	15	8	6	14	14	22	22	31	23	25	24
29	13	15	10	8	--	14	21	22	28	23	25	24
30	13	16	10	10	--	15	20	22	28	23	25	e 24
31	13	--	8	12	--	15	--	23	--	23	25	--
AVERAGE	17	10	10	8	10	13	19	21	30	26	25	24

e Estimated

07366000 CORNEY BAYOU NEAR LILLIE, LA.

LOCATION.--Lat 32°53'15", long 92°39'25", Union Parish, at bridge on U.S. Highway 167, 3.0 miles south of Lillie.

DRAINAGE AREA.--462 square miles.

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1957, October 1959 to September 1960, October 1967 to September 1971.

Water temperatures: October 1967 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily recorded, 767 micromhos Feb. 26; minimum daily, 74 micromhos Nov. 12.

Water temperatures: Maximum, 30°C June 26, 27; minimum, 3°C Jan. 9.

Period of record:

Specific conductance (1967-71): Maximum daily, 834 micromhos Mar. 3, 4, 1968; minimum daily, 74 micromhos Nov. 12, 1970.

Water temperatures: Maximum, 30°C June 16, 17, 19, Aug. 11, 1968, July 14, many days in Aug. 1970, and June 26, 27, 1971; minimum, 2°C Jan. 14, 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 15	1.8	2.9	0	19	3.1	46	3.1	17	3.8	100
NOV. 19	4.0	10	60	5.2	1.0	7.0	2.1	12	8.2	12
DEC. 7	28	27	40	22	3.7	52	4.0	4	6.4	123
JAN. 25	69	9.1	20	26	6.6	56	2.6	4	6.4	146
MAR. 3	680	8.0	10	31	6.0	77	3.1	6	27	171
APR. 19	82	7.1	20	25	4.3	55	2.3	8	8.6	131
JUNE 1	75	10	20	24	3.9	50	2.1	13	4.8	121
JULY 15	3.2	5.2	10	27	5.0	58	2.3	14	4.0	140
AUG. 12	345	4.5	10	24	5.8	56	2.5	9	4.2	140
SEPT. 29	55	7.3	90	31	5.5	72	3.2	10	3.6	170

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEMP- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 15	0.1	0.2	232	186	60	46	400	17.0	5	7.5
NOV. 19	.0	.3	63	52	17	7	80	9.0	25	7.3
DEC. 7	.1	.1	284	240	70	67	460	13.0	5	6.9
JAN. 25	.0	.1	287	255	92	89	499	6.0	5	5.4
MAR. 3	.1	.1	442	326	102	97	612	9.0	20	6.0
APR. 19	.1	.0	--	237	80	73	479	20.0	15	6.0
JUNE 1	.1	.2	306	222	76	65	425	21.0	5	5.4
JULY 15	.1	.2	360	249	88	77	498	25.0	5	5.8
AUG. 12	.0	.1	374	241	84	77	487	26.0	0	5.5
SEPT. 29	.1	.3	427	298	100	92	608	25.0	15	5.8

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

e Estimated

e Estimated

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, 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 1971.

Water temperatures: August 1954 to September 1958; October 1968 to September 1971.

REMARKS.--Continuous records are collected at this station.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 9	--	--	--	--	--	--	--	--	--	--
OCT. 24	--	7.9	50	19	3.5	64	3.7	50	9.4	106
NOV. 6	--	--	--	--	--	--	--	--	--	--
NOV. 20	--	6.4	20	23	4.5	80	3.6	22	12	154
DEC. 18	--	4.3	40	18	2.2	45	3.9	29	13	80
JAN. 15	--	7.3	70	13	1.3	21	2.2	26	11	38
JAN. 27	--	7.6	100	13	2.3	24	1.7	30	12	42
FEB. 13	--	--	--	--	--	--	--	--	--	--
FEB. 26	--	7.2	130	13	2.1	33	2.0	18	10	60
MAR. 26	--	7.4	50	8.8	3.2	25	1.4	20	10	43
APR. 23	--	7.4	30	14	4.1	43	1.7	29	28	73
MAY 7	--	5.6	40	12	3.6	35	1.8	26	14	62
MAY 28	--	7.7	140	9.0	2.3	21	1.7	22	12	36
JULY 6	--	--	--	--	--	--	--	--	--	--
JULY 20	--	12	30	19	4.5	64	2.1	36	21	107
AUG. 5	--	--	--	--	--	--	--	--	--	--
AUG. 26	--	8.6	140	13	1.6	20	2.2	27	11	32
SEPT. 21	--	9.6	220	19	3.1	48	3.0	46	14	75

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 9	--	--	--	--	--	--	415	25.0	--	--
OCT. 24	0.1	3.0	273	242	62	21	474	20.0	50	6.7
NOV. 6	--	--	--	--	--	--	247	16.0	--	--
NOV. 20	.1	5.1	354	300	76	58	599	12.0	25	6.5
DEC. 18	.1	6.4	210	167	54	30	360	13.0	35	6.6
JAN. 15	.1	1.8	123	109	38	17	200	9.0	40	6.7
JAN. 27	.1	1.5	148	119	42	17	227	11.0	20	6.6
FEB. 13	--	--	--	--	--	--	277	8.5	--	--
FEB. 26	.0	1.5	159	136	41	26	266	13.0	50	6.3
MAR. 26	.2	.6	132	110	35	19	211	13.5	35	6.2
APR. 23	.1	1.8	189	167	52	28	357	23.0	20	6.3
MAY 7	.1	.9	175	146	45	24	299	23.5	25	6.3
MAY 28	.1	1.1	124	102	32	14	191	25.0	40	6.4
JULY 6	--	--	--	--	--	--	420	32.5	--	--
JULY 20	.2	7.4	302	255	66	36	493	33.0	30	5.8
AUG. 5	--	--	--	--	--	--	245	26.0	--	--
AUG. 26	.2	6.5	155	106	40	18	206	30.0	100	6.4
SEPT. 21	.2	6.0	238	201	60	22	383	27.0	150	6.7

07367000 OUACHITA RIVER AT MONROE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

[illegible]

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

[illegible]

e Estimated

07367000 OUACHITA RIVER AT MONROE, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	--	6.5	9.5	8.5	9.0	8.8	5.4	--	--	--	4.8
2	--	--	6.2	9.6	8.6	8.1	8.8	6.5	--	--	--	4.1
3	--	--	6.3	7.4	8.0	8.8	9.0	6.2	--	--	--	2.8
4	--	--	5.6	8.9	4.7	9.4	9.0	6.2	--	--	3.5	2.0
5	--	--	5.6	10.0	8.6	9.1	9.0	5.7	--	--	3.7	2.7
6	--	5.7	6.3	10.3	8.2	7.9	9.3	--	--	2.8	4.1	2.8
7	--	7.9	6.2	10.2	8.5	10.0	9.3	--	--	2.6	4.0	2.6
8	--	7.7	6.0	10.3	9.1	10.3	9.2	--	--	2.5	4.8	2.1
9	--	7.9	6.4	10.4	9.4	10.1	8.0	--	--	2.0	4.6	1.9
10	--	8.2	6.4	7.8	9.4	10.0	7.6	--	--	2.6	4.1	2.3
11	--	7.7	5.9	5.7	8.6	10.3	7.3	--	--	3.6	4.2	1.9
12	--	7.4	7.0	6.1	8.5	9.4	6.8	--	--	4.2	4.6	1.6
13	--	7.5	6.9	5.2	9.1	8.0	6.4	--	--	4.5	4.9	1.8
14	--	7.6	6.4	4.9	9.3	7.6	6.3	--	--	4.5	4.4	2.2
15	--	7.6	6.1	6.9	9.0	9.7	5.5	--	--	4.4	4.4	2.8
16	--	7.8	5.5	--	6.5	9.3	4.8	--	--	4.2	4.4	1.9
17	--	8.0	6.2	--	8.2	8.6	5.0	--	--	4.1	4.2	1.5
18	--	7.7	5.9	--	8.9	8.6	4.4	--	--	3.6	4.4	1.3
19	--	7.5	4.4	--	8.6	8.9	3.7	--	--	4.0	3.9	1.5
20	--	7.9	6.9	--	7.7	8.6	3.1	--	--	4.7	4.4	1.6
21	--	8.1	4.7	--	7.9	8.2	3.3	--	--	--	4.9	2.0
22	--	7.3	4.1	--	8.1	7.5	e 4.5	--	--	--	5.1	--
23	--	8.2	4.5	--	8.0	8.2	5.5	--	--	--	5.0	--
24	--	7.9	7.5	--	7.8	8.4	6.5	--	--	--	4.7	--
25	--	7.6	7.9	--	7.5	8.5	6.9	--	--	--	4.8	--
26	--	7.3	8.2	--	6.9	8.4	7.3	--	--	--	4.5	--
27	--	7.1	8.9	6.7	9.5	8.6	6.3	--	--	--	3.3	--
28	--	7.3	9.0	8.3	9.1	7.2	7.1	--	--	--	3.7	--
29	--	7.1	8.8	6.5	--	8.0	6.8	--	--	--	4.9	--
30	--	7.1	9.5	3.9	--	9.2	6.3	--	--	--	5.2	--
31	--	--	9.3	8.2	--	9.4	--	--	--	--	5.0	--
AVERAGE	--	7.6	6.6	--	8.3	8.8	6.7	--	--	--	4.4	--

e Estimated

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.0	17.0	13.5	9.0	11.0	13.0	16.0	22.5	25.5	33.5	25.0	30.0
2	25.0	17.0	14.5	9.0	10.5	14.0	16.5	22.0	26.0	33.5	25.5	30.5
3	25.5	16.5	14.5	10.0	10.5	13.5	16.5	22.5	26.0	33.0	25.5	30.5
4	25.5	16.0	15.0	9.5	11.0	13.0	16.5	22.0	26.5	33.0	26.0	30.0
5	26.0	15.5	15.5	9.0	10.5	12.0	17.0	22.5	27.5	33.0	26.0	30.0
6	26.0	15.5	15.0	7.5	10.5	12.5	17.0	23.0	28.0	33.5	26.5	30.5
7	26.0	15.0	14.5	6.5	10.5	12.5	16.5	23.0	28.5	33.5	26.5	30.5
8	26.0	15.0	13.5	6.0	10.0	12.5	16.0	23.0	28.5	34.0	26.5	30.5
9	25.5	15.0	12.5	6.0	9.5	12.5	16.5	23.5	29.0	33.5	27.0	30.5
10	24.5	15.5	13.0	7.0	9.0	12.0	17.0	24.0	29.0	34.0	26.5	30.5
11	24.5	15.0	14.0	7.0	9.0	11.5	18.0	23.0	29.5	34.0	26.5	30.5
12	25.0	15.5	14.0	7.0	9.5	13.0	19.0	23.0	31.5	34.0	26.5	30.5
13	24.0	15.0	13.5	7.0	9.0	14.0	19.5	22.0	32.0	34.5	27.0	30.5
14	23.0	14.0	13.0	7.5	8.5	14.5	20.0	21.5	32.5	35.0	27.0	30.5
15	--	13.0	13.0	8.0	9.0	14.0	20.5	--	33.0	35.0	27.0	30.5
16	--	12.0	13.0	9.0	10.0	15.0	20.5	--	33.0	35.0	27.0	30.5
17	--	11.5	12.5	9.5	9.0	15.5	21.0	--	33.0	35.5	27.5	29.5
18	--	11.0	12.5	9.5	9.0	15.5	21.5	--	33.5	35.0	27.5	29.0
19	--	12.0	13.5	9.5	10.5	15.5	22.0	--	33.0	35.0	27.5	29.0
20	--	12.0	12.5	9.5	11.5	15.5	23.0	--	33.0	33.0	28.0	29.0
21	--	11.5	13.0	9.5	12.5	15.5	23.5	--	33.0	32.5	28.5	28.0
22	--	12.5	12.5	10.5	12.0	15.0	24.0	--	33.5	32.5	29.0	28.0
23	--	12.0	12.5	10.5	11.5	14.5	23.0	--	33.0	32.5	29.5	27.5
24	20.5	e 11.0	12.5	11.5	11.5	15.0	23.0	--	32.5	32.0	29.5	27.5
25	19.0	10.5	12.0	11.5	11.5	14.5	23.0	--	32.5	32.0	29.5	27.0
26	19.5	10.5	11.0	10.5	12.5	14.0	23.0	--	33.0	31.0	30.0	27.5
27	20.5	11.0	9.5	10.5	12.5	13.5	23.5	--	34.0	30.0	30.0	28.0
28	20.5	11.5	9.5	10.0	13.0	15.0	24.0	25.5	34.0	29.5	30.5	28.5
29	18.5	11.5	10.0	11.0	--	15.0	24.0	25.0	34.0	27.0	30.5	28.0
30	17.5	12.5	10.0	11.0	--	15.5	23.5	25.0	34.0	26.0	30.0	28.5
31	17.5	--	10.0	11.0	--	15.5	--	25.0	--	25.0	29.5	--
AVERAGE	--	13.0	13.0	9.0	10.5	14.0	20.0	--	31.0	32.5	28.0	29.0

e Estimated

RED RIVER BASIN

161

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 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 22	--	8.5	250	19	4.3	67	3.2	60	15	101
NOV. 17	--	8.2	70	12	1.9	25	2.6	32	14	37
DEC. 21	--	6.0	120	17	1.8	44	3.9	44	13	70
JAN. 26	--	6.7	70	14	1.9	28	1.9	26	12	50
FEB. 24	--	7.4	70	15	2.6	40	2.5	31	13	66
MAR. 18	--	6.9	70	12	2.4	34	2.0	20	14	61
APR. 22	--	8.5	130	15	2.3	40	3.0	35	18	66
MAY 19	--	8.6	120	9.1	1.8	28	2.1	38	9.8	38
JUNE 15	--	8.5	280	14	2.7	39	1.6	42	18	55
JULY 8	--	9.6	110	19	3.5	56	2.6	64	19	75
AUG. 17	--	8.6	110	11	2.6	28	1.3	24	9.2	47
SEPT. 22	--	11	270	20	3.4	55	3.0	53	14	87

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 22	0.1	2.3	269	250	65	16	460	22.0	60	7.1
NOV. 17	.2	.9	157	116	38	12	218	11.0	60	6.3
DEC. 21	.1	2.1	207	160	50	14	350	15.0	40	6.9
JAN. 26	.0	1.1	158	103	43	22	259	11.0	20	6.8
FEB. 24	.1	.7	194	162	46	23	300	12.0	120	6.7
MAR. 18	.2	1.1	145	144	40	24	267	15.0	60	6.5
APR. 22	.1	2.0	205	172	47	18	319	22.0	80	6.7
MAY 19	.2	.4	145	117	30	0	215	22.0	60	6.2
JUNE 15	.2	1.5	190	162	46	12	304	--	120	6.9
JULY 8	.3	2.5	255	220	62	10	425	29.0	60	7.0
AUG. 17	.3	1.0	167	121	38	18	231	30.0	70	6.8
SEPT. 22	.2	2.8	263	222	64	21	416	23.0	100	6.8

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO ₄) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 22	6.7	3.1	52	--	--	--	--	--	--
NOV. 17	8.4	2.0	22	--	0.36	2	--	--	--
DEC. 21	7.4	1.7	48	--	.30	7	--	--	--
JAN. 26	10.0	2.5	5	--	.10	--	--	--	--
FEB. 24	9.0	1.6	31	--	.20	--	--	--	--
MAR. 18	8.4	1.1	78	--	.20	--	--	--	--
APR. 22	5.7	2.4	38	--	.38	--	--	--	--
MAY 19	4.1	1.1	28	--	.25	--	--	--	--
JUNE 15	--	--	19	--	.19	--	--	--	--
JULY 8	3.6	1.1	12	--	.46	--	--	--	--
AUG. 17	5.6	3.3	47	--	.09	--	--	--	--
SEPT. 22	--	--	--	--	.14	--	--	--	--

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., at Ouachita-Richland Parish line, at gaging station at 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, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: October 1953 to September 1955, October 1967 to September 1971.
Water temperatures: October 1967 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 850 micromhos Oct. 12; minimum daily, 118 micromhos Mar. 1.
Water temperatures: Maximum, not determined; minimum, 6°C Feb. 10, 15.

Period of record:

Specific conductance: Maximum daily, 2,270 micromhos Mar. 20, 1969; minimum daily, 50 micromhos Jan. 15, 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 2	966	11	10	54	17	43	4.6	226	27	65
NOV. 16	4460	8.8	--	25	6.7	80	7.0	159	21	76
DEC. 7	118	4.9	50	25	5.7	19	6.0	114	14	20
JAN. 19	289	8.4	150	25	4.3	14	3.7	90	14	17
FEB. 23	15100	1.7	220	13	4.0	45	3.5	96	12	37
APR. 12	173	5.4	40	28	9.0	21	2.8	124	17	27
JUNE 3	278	5.9	20	21	5.5	13	3.5	96	12	13
JULY 19	191	10	20	35	13	29	2.9	137	23	50
AUG. 18	--	6.4	40	24	8.0	15	3.8	114	9.4	18
SEPT. 29	101	12	90	56	21	42	3.5	236	27	68

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 2	0.4	0.1	350	333	205	20	597	24.0	15	7.6
NOV. 16	.4	2.5	382	365	90	0	540	10.0	320	7.7
DEC. 7	.2	.3	166	151	86	0	273	11.0	50	7.1
JAN. 19	.2	1.0	166	132	80	6	230	7.0	50	6.7
FEB. 23	.2	.6	198	164	49	0	304	8.0	70	7.1
APR. 12	.2	.5	175	172	107	5	324	19.0	10	7.0
JUNE 3	.2	.2	144	121	75	0	212	19.0	40	6.8
JULY 19	.2	.1	247	230	140	28	413	28.0	5	6.5
AUG. 18	.2	.2	161	141	93	0	256	--	40	7.5
SEPT. 29	.3	.2	374	346	225	31	617	24.0	10	7.2

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

e Estimated

e Estimated

RED RIVER BASIN

07369500 TENSAS RIVER AT TENDAL, LA.

LOCATION.--Lat 32°25'55", long 91°22'00", in NW $\frac{1}{4}$ sec.29, T.17 N., R.11 E., Madison Parish, at gaging station at bridge on U.S. Highway 80 at Tendal, 200 feet upstream from Illinois Central Railroad bridge, and 3 miles east of Waverly.

DRAINAGE AREA.--309 sq mi, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1957, October 1967 to September 1971.
Water temperatures: October 1967 to September 1968.

REMARKS.--Conductance recorder; daily mean values are reported in the daily conductance table.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
NOV. 7	--	--	--	--	--	--	--	--	--	--
NOV. 16	--	7.5	60	15	4.0	3.2	7.5	63	8.8	3.1
NOV. 21	--	--	--	--	--	--	--	--	--	--
DEC. 18	--	--	--	--	--	--	--	--	--	--
JAN. 26	--	10	80	35	9.9	10	3.9	153	11	9.0
JAN. 27	--	--	--	--	--	--	--	--	--	--
FEB. 27	--	--	--	--	--	--	--	--	--	--
MAR. 18	--	9.8	30	23	6.4	6.1	6.7	107	3.4	2.3
MAR. 27	--	--	--	--	--	--	--	--	--	--
MAY 18	--	12	50	15	1.6	4.0	6.2	57	5.6	1.0
JULY 9	--	10	50	23	6.0	10	3.5	109	6.6	5.8
SEPT. 22	--	18	110	56	18	28	3.4	304	4.4	16

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEMP- ERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
NOV. 7	--	--	--	--	--	--	274	15.0	--	--
NOV. 16	0.2	3.1	131	83	54	2	141	10.5	60	7.1
NOV. 21	--	--	--	--	--	--	189	11.0	--	--
DEC. 18	--	--	--	--	--	--	363	11.5	--	--
JAN. 26	.1	1.2	186	165	128	2	282	11.5	35	7.5
JAN. 27	--	--	--	--	--	--	292	9.0	--	--
FEB. 27	--	--	--	--	--	--	122	15.0	--	--
MAR. 18	.3	2.1	120	118	84	0	189	16.5	80	7.3
MAR. 27	--	--	--	--	--	--	287	12.0	--	--
MAY 18	.2	4.1	93	78	44	0	120	23.0	--	6.7
JULY 9	.2	3.6	134	122	82	0	206	28.5	40	6.9
SEPT. 22	.3	.2	300	294	213	0	502	24.0	20	7.2

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
NOV. 7	--	--	--	--	--	--	--	--	--
NOV. 16	7.3	3.7	29	--	--	--	--	--	--
NOV. 21	--	--	--	--	--	--	--	--	--
DEC. 18	--	--	--	--	--	--	--	--	--
JAN. 26	8.9	1.9	0	--	--	--	--	--	--
JAN. 27	--	--	--	--	--	--	--	--	--
FEB. 27	--	--	--	--	--	--	--	--	--
MAR. 18	6.4	2.7	73	--	--	--	--	--	--
MAR. 27	--	--	--	--	--	--	--	--	--
MAY 18	4.0	1.7	12	--	--	--	--	--	--
JULY 9	3.2	3.1	13	--	--	--	--	--	--
SEPT. 22	5.8	3.2	14	--	--	--	--	--	--

RED RIVER BASIN

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07369500 TENSAS RIVER AT TENDAL, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		--	205	270	215	135	330	340	195	215	255	370
2		--	210	245	220	140	335	310	200	220	260	380
3		--	225	240	235	140	340	340	210	210	260	390
4		--	220	230	245	150	300	380	215	210	260	395
5		--	230	210	250	155	--	370	215	210	260	410
6		--	230	190	250	160	--	350	225	215	255	430
7		220	240	200	260	160	--	310	230	215	250	440
8		230	245	205	270	160	325	300	240	215	245	465
9		245	250	200	270	170	320	300	255	220	230	475
10		240	265	185	275	175	320	320	260	230	220	490
11		240	285	175	285	180	330	--	270	235	210	510
12		245	285	165	310	185	335	--	280	245	200	515
13		220	280	165	310	195	335	--	285	250	195	530
14		250	280	175	315	200	340	--	285	255	190	530
15		210	295	190	315	200	340	--	285	260	190	535
16		120	295	195	315	205	340	--	285	270	190	540
17		125	300	195	320	215	345	--	280	275	185	540
18		135	340	200	330	215	350	--	290	280	185	560
19		155	350	200	320	210	345	--	280	290	185	555
20		160	360	205	315	200	355	--	280	295	190	550
21		170	370	220	160	200	350	--	285	280	195	490
22		165	380	225	120	205	300	--	270	310	205	480
23		170	360	230	110	220	160	--	200	330	220	495
24		170	340	240	115	235	140	--	170	340	235	515
25		170	315	250	135	245	200	--	200	350	250	525
26		175	290	260	145	255	260	--	210	355	290	520
27		180	275	270	140	260	285	--	230	370	330	530
28		190	280	265	130	275	305	--	230	370	335	540
29		195	275	240	--	290	340	150	235	330	350	545
30		200	280	215	--	300	345	165	225	280	355	555
31		--	290	210	--	315	--	185	--	255	365	--
AVERAGE		191	285	215	239	205	310	--	244	271	243	494

RED RIVER BASIN

07369700 BAYOU MACON NEAR KILBOURNE, LA.

LOCATION.--Lat 32°59'35", long 91°15'45", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.8, T.23 N., R.12 E., East Carroll-West Carroll Parish line, at gaging station at bridge on State Highway 585, 0.8 mile south of Arkansas-Louisiana State line, and 3.0 miles east of Kilbourne.

DRAINAGE AREA.--504 sq mi, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958, October 1967 to September 1971.
Water temperatures: October 1967 to September 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 14	850	3.6	40	18	5.4	7.0	4.7	76	13	10
NOV. 18	218	8.2	20	35	9.9	14	4.3	146	16	15
DEC. 8	--	8.2	0	46	16	20	4.0	212	19	22
JAN. 21	175	8.1	20	46	14	19	2.9	193	21	22
MAR. 9	355	8.3	20	32	9.7	14	3.2	139	16	16
APR. 21	276	12	10	35	9.8	14	2.0	154	17	14
JUNE 10	410	7.6	20	27	7.9	10	3.3	115	14	9.7
JULY 21	96	14	0	45	12	15	3.4	199	15	15
AUG. 25	--	8.9	10	39	12	15	3.3	173	15	18
SEPT. 28	99	11	40	42	14	20	3.0	192	16	21

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 14	0.1	1.5	110	100	67	5	186	20.0	50	7.4
NOV. 18	.2	.6	173	175	128	8	316	10.0	20	7.6
DEC. 8	.2	.3	240	240	179	5	434	10.0	5	8.1
JAN. 21	.2	.1	239	228	174	16	409	7.0	5	7.2
MAR. 9	.2	1.4	185	169	120	6	304	12.0	20	7.3
APR. 21	.2	.1	183	180	128	2	312	21.5	10	6.1
JUNE 10	.2	4.4	173	141	100	6	243	23.0	30	7.1
JULY 21	.2	.5	231	218	162	0	388	27.0	20	7.2
AUG. 25	.2	.1	198	196	146	4	361	27.0	15	7.7
SEPT. 28	.2	.3	226	222	162	5	390	26.0	5	6.7

07372000 DUGDEMONA RIVER NEAR WINNFELD, 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, at gaging station at 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.--Chemical analyses: October 1966 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
DEC. 2	--	19	--	7.7	1.4	38	4.5	79	24	13
DEC. 22	--	18	--	8.6	1.3	32	4.6	72	23	13
FEB. 3	--	--	--	6.6	1.6	31	2.1	69	19	13
FEB. 24	--	12	--	5.0	1.8	28	2.9	57	17	8.0
MAR. 17	--	15	--	6.3	2.3	32	2.9	79	16	10
APR. 22	--	18	--	7.4	2.1	43	3.2	105	15	14
MAY 20	--	14	--	4.0	1.5	32	3.2	77	13	6.6
JUNE 14	--	21	--	8.9	1.9	46	2.6	104	27	13
JULY 28	--	--	--	11	5.5	75	3.3	179	37	23
AUG. 18	--	19	--	13	2.6	73	3.6	126	28	54
SEPT. 22	--	8.2	--	12	3.4	25	2.7	48	26	23

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
DEC. 2	0.2	1.0	185	148	25	0	220	16.5	200	7.0
DEC. 22	.2	1.8	198	138	27	0	198	--	200	7.4
FEB. 3	.1	--	--	--	23	0	191	8.5	240	7.3
FEB. 24	.2	--	--	103	20	0	160	12.0	240	7.0
MAR. 17	.4	1.7	184	126	25	0	189	16.5	200	7.0
APR. 22	.2	--	235	155	27	0	242	22.5	800	7.1
MAY 20	.1	2.2	--	115	16	0	173	19.5	220	7.1
JUNE 14	.2	--	--	171	30	0	272	30.0	400	7.7
JULY 28	.2	--	334	--	50	0	415	24.5	450	6.7
AUG. 18	.2	1.0	317	256	43	0	504	27.0	200	6.9
SEPT. 22	.1	.2	168	125	44	5	216	24.0	100	6.6

DATE	DISSOLVED OXYGEN (O2) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
DEC. 2	6.1	8.4	73	--	--	--	--	--	--
DEC. 22	7.4	3.3	69	--	--	--	--	--	--
FEB. 3	10.0	2.4	38	--	--	--	--	--	--
FEB. 24	7.5	2.4	68	--	--	--	--	--	--
MAR. 17	7.8	2.0	126	--	--	--	--	--	--
APR. 22	5.8	1.4	76	--	--	--	--	--	--
MAY 20	5.5	1.5	63	--	--	--	--	--	--
JUNE 14	3.7	.3	58	--	--	--	--	--	--
JULY 28	5.3	1.4	40	--	--	--	--	--	--
AUG. 18	7.1	--	26	--	--	--	--	--	--
SEPT. 22	7.0	1.2	32	--	--	--	--	--	--

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.--1,880 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1959, October 1964 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 1,650 micromhos Oct. 13; minimum daily, 50 micromhos May 15-17.

Period of record:

Specific conductance (1966-71): Maximum daily, 26,800 micromhos Dec. 4, 1965; minimum daily, 50 micromhos May 15-17, 1971.

REMARKS.--Conductance recorder; daily mean values are reported in the daily conductance table.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (S04) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 22	--	13	--	7.4	1.3	32	2.3	40	20	30
OCT. 23	298	--	--	--	--	--	--	--	--	--
NOV. 20	621	--	--	--	--	--	--	--	--	--
DEC. 3	129	16	--	9.5	2.0	66	4.8	69	20	69
DEC. 21	349	14	--	7.3	2.1	31	3.8	29	17	38
JAN. 15	--	14	--	6.1	1.7	20	2.4	22	14	24
FEB. 3	--	--	--	7.0	2.3	36	1.8	47	16	36
FEB. 24	--	--	--	5.5	.1	7.9	2.4	15	--	8.8
FEB. 26	--	--	--	--	--	--	--	--	--	--
MAR. 17	--	21	--	6.9	1.9	28	2.5	50	14	23
MAR. 26	--	--	--	--	--	--	--	--	--	--
APR. 22	--	17	--	10	2.7	70	3.0	70	15	84
APR. 23	--	--	--	--	--	--	--	--	--	--
MAY 20	--	9.8	--	3.4	.9	11	2.3	24	8.4	4.4
MAY 28	--	--	--	--	--	--	--	--	--	--
JUNE 14	--	19	--	11	2.6	96	1.6	52	14	138
JUNE 18	--	--	--	--	--	--	--	--	--	--
JULY 20	--	--	--	--	--	--	--	--	--	--
JULY 28	--	14	--	9.2	3.2	78	1.6	73	15	96
AUG. 17	--	11	--	6.0	1.7	25	1.2	33	8.8	27
AUG. 26	--	--	--	--	--	--	--	--	--	--
SEPT. 21	--	--	--	--	--	--	--	--	--	--
SEPT. 22	--	8.9	--	14	6.1	124	2.7	38	13	202

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 22	0.1	0.2	140	126	24	0	209	16.5	120	7.2
OCT. 23	--	--	--	--	--	--	239	18.0	--	--
NOV. 20	--	--	--	--	--	--	186	12.0	--	--
DEC. 3	.2	.7	268	222	32	0	389	17.0	160	7.1
DEC. 21	.2	1.0	187	128	27	3	211	13.0	120	6.7
JAN. 15	.1	.6	125	94	22	4	154	11.5	100	7.2
FEB. 3	.1	--	--	--	27	0	229	9.0	200	7.1
FEB. 24	.2	--	--	--	18	6	84	11.5	200	6.3
FEB. 26	--	--	--	--	--	--	89	13.5	--	--
MAR. 17	.3	1.4	158	124	25	0	182	17.0	150	6.9
MAR. 26	--	--	--	--	--	--	330	13.0	--	--
APR. 22	.1	--	290	235	36	0	427	24.5	200	6.8
APR. 23	--	--	--	--	--	--	416	25.0	--	--
MAY 20	.1	1.5	--	54	12	0	79	19.5	180	6.9
MAY 28	--	--	--	--	--	--	233	22.5	--	--
JUNE 14	.1	--	333	308	38	0	584	30.5	220	6.8
JUNE 18	--	--	--	--	--	--	680	31.5	--	--
JULY 20	--	--	--	--	--	--	557	31.5	--	--
JULY 28	.1	--	291	--	36	0	460	25.0	160	6.3
AUG. 17	.1	1.3	149	98	22	0	170	30.0	120	7.1
AUG. 26	--	--	--	--	--	--	656	30.5	--	--
SEPT. 21	--	--	--	--	--	--	579	23.5	--	--
SEPT. 22	.2	.2	416	390	60	29	746	24.0	90	6.5

07372200 LITTLE RIVER NEAR ROCHELLE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO ₄) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 22	7.6	1.5	62	--	--	--	--	--	--
OCT. 23	--	--	--	--	--	--	--	--	--
NOV. 20	--	--	--	--	--	--	--	--	--
DEC. 3	9.4	1.6	55	--	--	--	--	--	--
DEC. 21	9.0	2.0	61	--	--	--	--	--	--
JAN. 15	--	--	--	--	--	--	--	--	--
FEB. 3	10.0	2.2	37	--	--	--	--	--	--
FEB. 24	8.4	2.1	52	--	--	--	--	--	--
FEB. 26	--	--	--	--	--	--	--	--	--
MAR. 17	7.7	1.3	102	--	--	--	--	--	--
MAR. 26	--	--	--	--	--	--	--	--	--
APR. 22	5.4	1.7	46	--	--	--	--	--	--
APR. 23	--	--	--	--	--	--	--	--	--
MAY 20	6.0	1.7	55	--	--	--	--	--	--
MAY 28	--	--	--	--	--	--	--	--	--
JUNE 14	5.9	1.8	20	--	--	--	--	--	--
JUNE 18	--	--	--	--	--	--	--	--	--
JULY 20	--	--	--	--	--	--	--	--	--
JULY 28	6.3	.4	23	--	--	--	--	--	--
AUG. 17	6.0	.8	40	--	--	--	--	--	--
AUG. 26	--	--	--	--	--	--	--	--	--
SEPT. 21	--	--	--	--	--	--	--	--	--
SEPT. 22	6.5	1.0	32	--	--	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,080	150	325	200	180	85	105	405	295	640	110	400
2	1,020	135	400	145	200	85	110	470	300	800	60	580
3	960	115	460	100	220	100	110	500	310	450	70	580
4	900	120	460	135	280	100	115	500	320	120	110	980
5	860	130	460	150	470	100	120	750	330	120	160	520
6	870	135	490	100	250	100	135	570	355	145	230	680
7	890	140	530	85	180	100	150	830	370	160	130	540
8	900	150	540	90	200	110	155	1,370	390	170	170	380
9	900	240	525	100	210	140	165	200	420	195	150	350
10	890	465	515	120	235	170	185	100	450	210	460	355
11	920	880	540	180	260	185	205	140	480	270	260	370
12	1,100	425	780	190	400	205	230	130	500	320	200	580
13	1,650	340	1,550	175	350	200	250	70	530	350	225	710
14	525	505	700	160	180	195	255	60	560	375	290	700
15	170	295	600	145	200	180	270	50	590	400	390	590
16	135	210	580	160	230	175	295	50	610	410	285	760
17	140	140	330	170	155	180	320	50	630	440	290	1,150
18	140	140	230	160	145	190	335	60	660	480	280	600
19	140	145	210	165	145	250	350	65	680	520	290	410
20	160	160	205	175	185	140	360	80	670	545	300	530
21	190	150	215	190	180	110	490	100	710	550	330	550
22	200	160	250	200	140	125	440	110	670	650	360	740
23	270	170	275	230	90	130	420	130	660	760	390	620
24	510	180	250	240	75	160	360	150	730	840	510	480
25	740	180	225	275	70	180	300	180	850	1,420	550	530
26	340	170	215	300	80	240	360	220	780	1,520	615	590
27	350	200	215	330	90	170	380	225	880	1,050	650	465
28	500	225	240	380	70	140	380	240	800	900	590	455
29	280	290	310	200	--	180	415	260	720	580	510	465
30	240	320	360	200	--	125	460	310	660	420	500	480
31	220	--	470	200	--	100	--	320	--	310	590	--
AVERAGE	587	236	434	182	195	150	274	280	564	520	324	571

07373000 BIG CREEK AT POLLOCK, LA.

LOCATION.--Lat 31°32'10", long 92°24'30", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ 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 1968-71 (partial-record station).
Water temperatures: October 1964 to September 1971.

EXTREMES.--1969-71:

Water temperatures: Maximum, 28° July 16, 17, 20; minimum, unknown.

Period of record:

Water temperatures (1964-71): Maximum, 28°C July 10-13, 1965, July 16, 17, 1971; minimum, 4°C Jan. 30, 31, 1966, Dec. 16, 1968, Jan. 10, 11, 22, 23, 1970.

REMARKS.--Water-stage recorder with temperature attachment. Daily mean temperatures reported in table; maximum and minimum temperatures are available on request.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 22	--	24	310	2.2	0.6	4.2	1.3	15	0.0	5.0
DEC. 3	14	23	70	3.0	.1	4.6	1.7	18	.0	3.8
DEC. 17	24	21	160	2.0	.5	4.5	1.7	14	2.4	4.5
FEB. 3	--	21	160	3.0	.1	5.5	.8	18	.2	5.0
FEB. 23	--	15	360	2.7	.5	3.1	1.4	12	2.2	3.6
MAR. 17	--	19	290	2.6	.9	5.5	1.3	16	3.4	5.8
APR. 22	--	20	330	7.9	.3	4.0	1.5	32	.0	4.0
MAY 20	--	21	320	2.1	.4	4.1	1.3	14	.8	4.1
JUNE 14	--	24	400	2.9	.2	5.0	.9	18	2.0	3.5
JULY 28	--	12	120	1.5	.8	3.1	1.1	14	.4	2.8
AUG. 18	--	24	110	3.0	.9	4.2	.9	18	.0	3.9
SEPT. 22	--	20	210	2.0	1.2	3.3	1.3	15	.2	3.2

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 22	0.1	0.8	57	45	8	0	40	14.5	20	6.9
DEC. 3	.0	.4	56	46	8	0	43	17.0	20	6.6
DEC. 17	.1	.4	62	44	7	0	41	8.5	55	6.6
FEB. 3	.0	.4	57	45	8	0	41	8.5	25	7.1
FEB. 23	.1	.8	73	35	9	0	41	12.0	120	6.4
MAR. 17	.1	.5	63	47	10	0	47	15.0	55	6.7
APR. 22	.0	.8	67	54	21	0	68	22.0	70	7.1
MAY 20	.0	.6	53	41	7	0	40	20.5	45	7.2
JUNE 14	.0	.4	59	48	8	0	45	25.0	50	6.9
JULY 28	.0	.9	35	30	7	0	24	25.0	40	5.6
AUG. 18	.0	.5	45	46	11	0	42	23.0	40	6.7
SEPT. 22	.1	.7	60	39	10	0	40	24.0	50	6.7

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO ₄) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 22	9.1	0.8	17	--	--	--	--	--	--
DEC. 3	7.8	.7	6	--	0.08	--	--	--	--
DEC. 17	10.0	1.0	12	--	.08	--	--	--	--
FEB. 3	11.0	1.1	0	--	.04	--	--	600	400
FEB. 23	10.5	1.7	36	--	.13	--	500	440	290
MAR. 17	9.4	.6	77	--	.08	--	13000	72	150
APR. 22	7.9	1.2	24	--	.20	--	--	440	320
MAY 20	8.4	1.0	0	--	.27	--	5400	3300	1400
JUNE 14	7.6	.7	0	--	.09	--	650	460	70
JULY 28	6.0	1.1	17	--	--	--	1600	1100	1500
AUG. 18	7.3	.7	19	--	.06	--	3200	560	1100
SEPT. 22	7.5	.5	13	--	.05	--	--	--	--

RED RIVER BASIN

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07373000 BIG CREEK AT POLLOCK, LA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	--	15.0	9.5	--	14.0	15.5	18.0	20.5	24.5	23.0	24.5
2	16.5	--	16.0	9.0	--	14.5	15.0	18.0	21.5	24.5	23.5	24.5
3	17.0	--	16.5	10.0	9.0	13.5	14.0	18.0	22.0	24.5	23.5	24.5
4	18.0	--	16.0	11.5	11.5	11.0	13.5	17.0	23.0	24.5	24.0	24.5
5	19.5	9.5	15.0	12.0	12.0	10.0	14.5	18.5	23.5	25.0	23.5	25.0
6	20.0	9.0	14.0	--	--	12.0	13.5	19.5	23.5	24.5	23.5	25.0
7	20.0	10.0	12.0	--	--	12.0	11.5	19.5	23.5	25.5	24.5	25.5
8	21.0	11.0	9.0	--	--	10.5	12.0	20.0	23.5	25.5	24.5	25.0
9	--	13.5	10.0	--	--	10.0	13.5	20.5	23.5	25.5	24.5	25.0
10	--	13.5	11.0	--	--	12.0	15.5	21.0	23.5	24.5	24.5	25.0
11	--	11.5	13.0	--	--	12.0	16.0	20.5	23.5	25.5	25.5	25.0
12	17.0	11.5	12.0	--	--	14.0	16.5	20.0	24.0	26.5	25.5	24.5
13	18.5	11.0	10.0	--	9.5	16.0	17.0	18.5	24.5	26.5	25.0	24.5
14	18.0	10.5	9.0	--	8.5	18.0	18.0	17.0	24.5	26.5	25.5	24.0
15	18.0	10.5	8.0	--	8.5	18.0	16.5	17.0	25.0	26.5	25.0	23.5
16	16.5	9.0	9.0	--	10.0	16.5	16.5	18.0	24.5	28.0	25.0	23.5
17	15.5	8.0	9.5	--	12.0	15.5	18.0	18.5	23.5	28.0	24.5	21.5
18	14.5	9.0	9.5	--	13.5	14.5	17.0	19.0	24.5	27.0	24.5	21.5
19	14.5	10.0	11.0	--	15.0	14.5	19.0	19.5	23.5	27.0	24.5	22.0
20	15.5	11.5	13.5	--	15.5	13.0	20.0	20.0	23.0	28.0	25.0	21.0
21	16.0	10.0	14.5	--	15.5	12.0	20.0	19.0	23.5	25.5	25.0	20.0
22	15.0	10.0	15.5	--	15.0	12.0	20.0	19.0	23.5	24.5	25.0	20.5
23	14.5	10.5	16.5	--	12.0	14.5	21.0	20.0	23.5	24.5	25.5	22.0
24	15.0	9.0	14.5	--	11.0	13.0	21.0	20.0	24.5	24.5	25.5	23.0
25	16.0	6.5	11.5	--	12.0	13.5	19.0	20.0	25.5	25.0	25.5	23.5
26	16.5	8.5	10.0	--	14.5	12.0	19.0	20.0	25.5	25.0	25.5	23.5
27	16.5	11.0	7.0	--	14.5	12.0	20.0	20.5	25.5	24.5	25.5	24.0
28	17.0	13.5	8.5	--	14.0	14.5	21.0	20.5	24.5	24.5	25.5	24.0
29	17.0	14.5	11.0	--	-----	15.5	21.0	19.5	24.5	24.0	24.5	24.0
30	16.5	14.5	11.0	--	-----	15.5	20.0	19.0	24.5	23.5	24.5	23.5
31	--	-----	10.5	--	-----	14.5	-----	20.0	-----	23.0	24.5	-----
AVERAGE	--	--	12.0	--	--	13.5	17.0	19.0	24.0	25.5	24.5	23.5

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 1971.
Water temperatures: August 1954 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 29°C many days during July and August; minimum, 4° Feb. 16, 17.

Period of record:

Dissolved solids (1954-67): Maximum, 342 mg/l Nov. 11-20, 1963; minimum, 111 mg/l Feb. 11-19, 1957.

Hardness (1954-67): Maximum, 204 mg/l Dec. 21-31, 1965; minimum, 75 mg/l Feb. 11-19, 1957.

Specific conductance (1954-70): Maximum daily, 683 micromhos Oct. 16, 1955; minimum daily, 173 micromhos Apr. 15, 1955.

Water temperatures (1954-71): Maximum, 31°C on several days during July and August 1955, August 1956, July 1962, July 1965, and July and August 1966; minimum, 1°C Jan. 29, 30, 1961.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 13	--	5.1	10	34	9.7	12	4.3	115	36	14
NOV. 10	--	5.5	0	46	14	24	4.3	143	65	26
DEC. 3	--	--	--	--	--	--	--	--	--	--
DEC. 17	--	8.1	--	51	12	20	3.9	157	61	17
JAN. 6	--	6.4	50	39	8.4	13	3.4	106	46	17
JAN. 21	--	7.0	30	36	7.8	13	3.0	99	42	16
FEB. 4	--	--	--	--	--	--	--	--	--	--
FEB. 23	--	6.8	--	32	7.3	12	2.9	89	39	15
MAR. 5	--	--	--	--	--	--	--	--	--	--
MAR. 18	--	14	20	32	8.0	10	3.1	89	38	13
APR. 6	--	9.1	20	41	12	14	3.7	128	15	15
APR. 27	--	--	--	--	--	--	--	--	--	--
MAY 6	--	6.6	20	44	14	18	3.8	152	53	16
JUNE 1	--	6.7	30	36	9.7	15	3.4	102	51	15
JUNE 15	--	--	--	--	--	--	--	--	--	--
SEPT. 15	--	4.5	20	42	13	27	3.5	150	57	24

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 13	0.2	3.8	184	176	125	31	312	21.0	5	7.0
NOV. 10	.2	4.6	264	260	172	55	444	15.0	10	7.2
DEC. 3	--	--	--	--	--	--	411	11.0	--	--
DEC. 17	.2	4.4	284	255	178	49	437	11.5	20	7.6
JAN. 6	.1	4.5	197	190	132	45	329	7.0	30	7.4
JAN. 21	.1	4.3	189	178	122	41	304	8.0	10	7.4
FEB. 4	--	--	--	--	--	--	342	7.0	--	--
FEB. 23	.2	3.2	213	162	110	37	288	12.0	80	7.2
MAR. 5	--	--	--	--	--	--	315	7.5	--	--
MAR. 18	.2	5.0	172	167	113	40	287	--	20	7.4
APR. 6	.2	6.7	230	210	150	45	365	10.5	5	8.0
APR. 27	--	--	--	--	--	--	403	--	--	--
MAY 6	.2	3.5	252	234	168	43	410	20.5	10	8.0
JUNE 1	.2	3.5	199	190	130	46	332	23.0	15	8.1
JUNE 15	--	--	--	--	--	--	398	28.5	--	--
SEPT. 15	.2	1.0	264	243	157	34	438	28.5	20	7.0

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 13	--	--	--	--	--	--	--	--	--
NOV. 10	--	--	--	--	--	--	--	--	--
DEC. 3	--	--	--	--	--	--	--	--	--
DEC. 17	10.0	1.3	20	--	0.83	--	--	--	--
JAN. 6	--	--	--	--	--	--	--	--	--
JAN. 21	12.0	2.2	--	--	--	--	850	170	430
FEB. 4	--	--	--	--	--	--	--	--	--
FEB. 23	11.0	4.3	2	--	--	--	1100	420	460
MAR. 5	--	--	--	--	--	--	--	--	--
MAR. 18	9.8	1.9	69	--	--	--	--	--	--
APR. 6	--	--	--	--	--	--	--	--	--
APR. 27	--	--	--	--	--	--	--	--	--
MAY 6	--	--	--	--	--	--	--	--	--
JUNE 1	6.8	--	11	--	--	--	--	--	--
JUNE 15	--	--	--	--	--	--	--	--	--
SEPT. 15	--	--	--	--	--	--	--	--	--

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	22	16	12	11	8	8	10	18	21	27	26	27
2	22	14	12	11	8	8	10	18	21	27	26	27
3	22	14	12	10	8	7	10	18	21	27	26	27
4	22	14	11	8	8	8	10	18	21	27	26	27
5	22	14	11	8	8	8	11	18	21	27	25	27
6	21	14	11	8	8	7	11	18	22	28	25	27
7	21	14	9	7	7	7	9	19	22	28	25	27
8	22	14	10	6	7	7	9	19	23	28	26	27
9	22	14	9	6	7	7	9	19	23	28	26	28
10	23	13	9	7	7	8	9	18	24	28	26	28
11	23	13	9	7	6	10	9	18	24	28	26	28
12	23	13	9	7	6	10	12	19	24	28	26	27
13	21	13	9	7	6	11	12	19	25	28	28	27
14	21	13	9	7	5	11	12	19	25	28	28	27
15	21	13	9	8	5	10	12	19	25	28	28	27
16	20	13	9	8	4	10	12	19	e26	28	28	27
17	20	13	9	8	4	10	13	19	27	29	28	27
18	20	13	9	8	8	11	14	19	27	29	28	27
19	19	13	9	7	5	11	14	19	27	29	28	27
20	19	12	8	7	5	11	14	20	27	29	29	27
21	19	13	10	6	5	12	16	19	27	29	29	28
22	19	12	10	6	5	e12	16	21	27	29	29	27
23	19	13	10	6	5	e12	16	21	27	29	29	27
24	19	12	10	6	5	e12	16	21	27	29	29	26
25	19	12	10	7	5	e11	17	21	27	28	29	26
26	17	13	10	7	5	11	17	21	27	27	29	26
27	17	13	11	7	8	11	19	19	27	27	29	26
28	17	13	11	7	9	13	18	21	27	27	29	26
29	17	13	11	7	--	13	19	21	27	27	29	26
30	17	13	11	7	--	13	20	21	27	29	29	26
31	17	--	11	7	--	13	--	21	--	29	29	26
AVERAGE	20	13	10	7	6	10	13	19	25	28	28	27

e Estimated

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 Zellerbach Corp. paper mill, 5.7 miles southeast of St. Francisville.

DRAINAGEAREA.--1,243,000 sq mi, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses November 1968 to September 1971.
Water temperatures: October 1969 to September 1971.

REMARKS.--Continuous recorder at this station.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 13	--	5.0	10	36	8.8	13	4.3	118	38	17
OCT. 27	--	--	--	--	--	--	--	--	--	--
NOV. 10	--	4.5	0	44	13	21	4.3	142	58	21
DEC. 3	--	--	--	--	--	--	--	--	--	--
DEC. 16	--	5.5	0	50	14	18	3.6	155	61	18
JAN. 6	--	7.0	40	38	8.5	13	3.2	103	46	16
FEB. 4	--	7.8	40	40	11	12	2.0	120	45	16
FEB. 18	--	--	--	--	--	--	--	--	--	--
MAR. 5	--	--	--	--	--	--	--	--	--	--
MAR. 25	--	7.5	20	33	9.1	11	3.4	101	39	14
APR. 6	--	8.6	20	40	12	13	3.4	128	46	15
MAY 6	--	7.1	30	44	14	18	3.7	148	56	17
JUNE 2	--	--	--	--	--	--	--	--	--	--
JUNE 15	--	--	--	--	--	--	--	--	--	--
JULY 12	--	--	--	--	--	--	--	--	--	--
SEPT. 15	--	3.9	20	42	12	26	3.4	142	57	24

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 13	0.2	2.0	186	182	126	29	316	21.0	5	6.9
OCT. 27	--	--	--	--	--	--	374	18.0	--	--
NOV. 10	.2	4.1	254	240	162	46	427	15.0	5	7.2
DEC. 3	--	--	--	--	--	--	421	11.0	--	--
DEC. 16	.2	4.5	257	251	184	57	433	10.0	5	7.2
JAN. 6	.1	4.0	189	187	130	45	323	6.5	25	7.2
FEB. 4	.2	2.9	196	196	144	46	332	7.0	15	7.0
FEB. 18	--	--	--	--	--	--	347	5.0	--	--
MAR. 5	--	--	--	--	--	--	308	7.5	--	--
MAR. 25	.2	4.7	184	172	120	37	303	10.0	5	8.0
APR. 6	.2	4.5	218	206	149	44	361	10.5	10	7.9
MAY 6	.3	3.5	243	237	167	46	410	20.5	15	8.0
JUNE 2	--	--	--	--	--	--	344	22.0	--	--
JUNE 15	--	--	--	--	--	--	410	27.0	--	--
JULY 12	--	--	--	--	--	--	449	31.0	--	--
SEPT. 15	.2	1.5	260	240	156	40	437	28.0	15	7.3

07373423 MISSISSIPPI RIVER BELOW ST. FRANCISVILLE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 13	7.7	--	--	--	--	--	--	--	--
OCT. 27	--	--	--	--	--	--	--	--	--
NOV. 10	9.3	--	--	--	--	--	--	--	--
DEC. 3	--	--	--	--	--	--	--	--	--
DEC. 16	10.0	--	--	--	--	--	--	--	--
JAN. 6	10.6	--	--	--	--	--	--	--	--
FEB. 4	11.0	--	--	--	--	--	--	--	--
FEB. 18	11.0	--	--	--	--	--	--	--	--
MAR. 5	10.0	--	--	--	--	--	--	--	--
MAR. 25	10.4	--	--	--	--	--	--	--	--
APR. 6	10.1	--	--	--	--	--	--	--	--
MAY 6	8.0	--	--	--	--	--	--	--	--
JUNE 2	7.2	--	--	--	--	--	--	--	--
JUNE 15	6.6	--	--	--	--	--	--	--	--
JULY 12	6.4	--	--	--	--	--	--	--	--
SEPT. 15	6.6	--	--	--	--	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	377	392	--	345	336	--	388	e400	421	--	--
2	391	393	395	--	353	360	--	378	360	418	--	--
3	381	420	400	--	360	376	--	376	369	419	--	--
4	379	409	406	--	364	370	--	370	379	416	--	--
5	385	417	397	--	366	358	--	376	386	--	--	--
6	374	421	391	337	363	329	--	390	390	--	--	--
7	339	420	390	338	366	373	--	386	393	--	--	--
8	317	416	390	335	366	336	--	e335	397	--	--	--
9	313	417	389	329	363	313	--	e285	402	--	--	--
10	314	--	393	324	377	311	--	238	414	--	--	--
11	318	--	400	323	391	313	--	216	429	--	--	--
12	330	--	405	327	398	349	--	215	425	433	--	--
13	326	--	409	332	395	419	--	221	413	441	--	--
14	312	--	416	340	400	418	--	223	418	441	--	--
15	323	--	423	346	402	411	--	230	427	439	--	--
16	343	--	424	364	e395	338	--	231	e425	440	--	--
17	354	--	426	376	e385	313	--	236	e425	444	--	--
18	361	--	430	364	378	315	--	282	e425	447	--	--
19	367	444	433	343	364	317	--	326	e425	450	--	--
20	378	440	436	334	357	318	--	344	e425	456	--	--
21	386	426	439	332	352	325	--	278	426	459	--	--
22	398	414	439	334	338	329	424	317	433	459	--	--
23	400	411	432	331	325	334	421	353	444	446	--	--
24	413	409	426	328	319	337	423	373	455	432	--	--
25	386	403	429	328	321	340	423	380	466	--	--	--
26	371	397	424	334	323	--	420	404	464	--	--	--
27	373	393	--	335	322	--	421	426	449	--	--	--
28	366	391	--	332	316	--	421	441	438	--	--	--
29	368	389	--	333	--	--	422	449	432	--	--	--
30	369	389	--	337	--	--	421	453	425	--	--	--
31	372	--	--	340	--	--	--	464	--	--	--	--
AVERAGE	362	--	413	338	361	346	--	335	419	--	--	--

e Estimated

MISSISSIPPI RIVER MAIN STEM

07373423 MISSISSIPPI RIVER BELOW ST. FRANCISVILLE, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	9.0	--	--	--	--	--	7.8	5.5	6.3	--	--
2	6.4	9.1	--	--	--	--	--	7.8	7.2	6.3	--	--
3	6.6	8.6	--	--	--	--	--	7.7	7.1	6.2	--	--
4	6.5	8.3	--	--	--	--	--	7.7	6.8	6.2	--	--
5	6.3	8.3	--	--	--	--	--	7.7	6.7	--	--	--
6	6.0	8.2	--	--	--	--	--	7.9	6.8	--	--	--
7	5.7	8.0	--	--	--	--	--	8.2	6.2	--	--	--
8	5.5	8.3	--	--	--	--	--	8.1	6.0	--	--	--
9	5.9	8.3	--	--	--	--	--	7.9	5.8	--	--	--
10	6.0	--	--	--	--	--	--	8.0	5.9	--	--	--
11	6.5	--	--	--	--	--	--	8.0	5.8	--	--	--
12	6.3	--	--	--	--	--	--	8.0	5.8	6.5	--	--
13	7.3	--	--	--	--	--	--	7.6	5.7	6.5	--	--
14	6.9	--	--	--	--	--	--	7.2	5.3	6.3	--	--
15	6.6	--	--	--	--	--	--	7.4	5.2	6.0	--	--
16	7.0	--	--	--	--	--	--	7.5	--	5.8	--	--
17	6.7	--	--	--	--	--	--	7.3	--	5.7	--	--
18	6.8	--	--	--	--	--	--	7.0	--	5.6	--	--
19	6.7	--	--	--	--	--	--	6.6	--	5.7	--	--
20	6.6	--	--	--	--	--	--	6.3	--	5.9	--	--
21	6.5	--	--	--	--	--	--	6.1	7.1	5.9	--	--
22	6.0	--	--	--	--	--	8.8	5.8	7.1	5.9	--	--
23	7.1	--	--	--	--	--	8.6	5.6	7.1	5.8	--	--
24	6.1	--	--	--	--	--	8.6	5.7	7.0	5.9	--	--
25	6.4	--	--	--	--	--	8.4	6.0	7.0	--	--	--
26	7.5	--	--	--	--	--	8.3	6.0	6.9	--	--	--
27	8.3	--	--	--	--	--	8.1	5.8	6.8	--	--	--
28	9.1	--	--	--	--	--	8.0	5.5	6.6	--	--	--
29	8.9	--	--	--	--	--	7.5	5.2	6.5	--	--	--
30	8.9	--	--	--	--	--	7.5	5.1	6.5	--	--	--
31	8.9	--	--	--	--	--	7.5	5.4	--	--	--	--
AVERAGE	6.9	--	--	--	--	--	--	6.9	6.4	--	--	--

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	8.0	--	--	7.3	7.3	--	7.2	7.8	7.6	--	--
2	7.6	7.9	--	--	7.3	7.4	--	7.4	7.8	7.6	--	--
3	7.5	7.9	7.1	--	7.4	7.3	--	7.5	7.5	7.5	--	--
4	7.5	7.9	7.2	--	7.5	7.4	--	7.5	7.5	7.6	--	--
5	7.4	7.9	7.2	--	7.5	7.3	--	7.5	7.5	--	--	--
6	7.6	8.0	7.1	7.4	7.6	7.3	--	7.7	7.5	--	--	--
7	8.0	8.0	7.1	7.3	7.6	7.3	--	8.1	7.5	--	--	--
8	7.9	8.0	7.1	7.3	7.5	7.5	--	8.1	7.5	--	--	--
9	7.7	7.5	7.2	7.4	7.5	7.1	--	7.7	7.5	--	--	--
10	7.8	--	7.2	7.4	7.6	7.1	--	7.6	7.5	--	--	--
11	7.9	--	7.2	7.5	7.5	7.2	--	7.6	7.6	--	--	--
12	7.9	--	7.1	7.5	7.6	7.4	--	7.5	7.5	7.8	--	--
13	7.8	--	7.0	7.6	7.5	7.3	--	7.5	7.5	7.8	--	--
14	7.6	--	7.1	7.6	7.6	7.2	--	7.4	7.5	7.8	--	--
15	7.5	--	7.1	7.5	7.6	7.1	--	7.4	7.5	7.8	--	--
16	7.6	--	7.2	7.4	--	6.9	--	7.5	--	7.8	--	--
17	7.7	--	7.1	7.5	--	6.9	--	7.5	--	7.8	--	--
18	7.7	--	7.2	7.4	7.4	6.9	--	7.9	--	7.7	--	--
19	7.8	--	7.3	7.3	7.5	6.8	--	8.3	--	7.8	--	--
20	7.9	--	7.3	7.3	7.4	6.9	--	8.1	--	7.8	--	--
21	7.9	--	7.3	7.3	7.4	7.0	--	7.9	7.6	7.8	--	--
22	8.0	--	7.3	7.4	7.2	7.0	7.0	7.8	7.6	7.8	--	--
23	7.8	--	7.3	7.4	7.2	6.9	7.0	7.8	7.6	7.8	--	--
24	8.1	--	7.2	7.4	7.2	6.9	7.1	7.8	7.6	7.7	--	--
25	8.0	--	7.2	7.4	7.3	7.0	7.1	7.8	7.6	--	--	--
26	7.9	--	7.0	7.3	7.4	--	6.9	7.8	7.6	--	--	--
27	7.9	--	--	7.2	7.3	--	7.0	7.7	7.6	--	--	--
28	7.7	--	--	7.3	7.3	--	6.9	7.8	7.6	--	--	--
29	7.9	--	--	7.4	--	--	6.9	7.8	7.6	--	--	--
30	7.8	--	--	7.4	--	--	7.0	7.8	7.5	--	--	--
31	7.9	--	--	7.3	--	--	--	7.7	--	--	--	--
AVERAGE	7.8	--	7.2	7.4	7.4	7.1	--	7.7	7.6	--	--	--

MISSISSIPPI RIVER MAIN STEM

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07373423 MISSISSIPPI RIVER BELOW ST. FRANCISVILLE, LA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	16.5	10.0	--	6.0	8.0	--	19.5	22.5	29.0	--	--
2	24.0	16.0	10.0	--	5.5	8.5	--	19.5	22.5	29.0	--	--
3	24.0	15.5	10.5	--	5.5	7.5	--	20.0	22.0	29.0	--	--
4	24.0	15.0	10.5	--	7.0	7.5	--	20.0	22.5	29.0	--	--
5	23.5	14.5	10.5	--	6.0	7.5	--	20.0	22.5	--	--	--
6	22.5	15.0	10.5	6.0	6.5	--	--	20.0	23.0	--	--	--
7	22.5	14.5	10.0	5.5	6.5	--	--	20.0	23.5	--	--	--
8	22.0	15.0	10.0	5.0	5.5	--	--	20.0	23.5	--	--	--
9	21.0	15.0	10.0	4.5	5.0	--	--	20.0	24.0	--	--	--
10	21.5	--	10.5	4.5	5.0	--	--	20.5	24.5	--	--	--
11	21.0	--	11.0	5.0	5.5	--	--	21.0	24.5	--	--	--
12	20.5	--	10.0	5.0	6.0	--	--	21.0	25.0	30.5	--	--
13	20.5	--	10.0	5.0	4.5	--	--	20.5	25.0	30.5	--	--
14	20.0	--	10.0	5.0	4.5	--	--	20.5	26.0	31.0	--	--
15	20.0	--	9.5	5.5	4.5	--	--	20.0	26.5	31.0	--	--
16	19.5	--	9.5	5.0	4.5	--	--	20.0	--	31.0	--	--
17	19.0	--	9.0	5.5	5.5	9.0	--	20.0	--	31.0	--	--
18	18.5	--	9.0	5.5	5.5	9.5	--	20.5	--	31.0	--	--
19	18.5	13.0	9.0	5.0	5.5	9.5	--	21.0	--	31.0	--	--
20	18.0	12.5	9.0	5.0	5.5	9.5	--	21.0	--	30.5	--	--
21	18.0	12.0	9.0	5.0	6.0	--	--	21.0	28.0	30.0	--	--
22	17.5	12.5	9.5	5.0	5.5	--	16.5	21.0	28.0	30.0	--	--
23	17.5	11.5	10.5	5.0	6.0	--	17.0	21.5	28.0	29.5	--	--
24	17.5	10.5	9.5	5.5	6.5	--	17.5	21.5	28.0	29.0	--	--
25	17.0	10.0	9.0	5.5	7.0	--	18.0	21.5	28.0	--	--	--
26	17.0	10.5	8.5	5.5	7.0	--	18.5	22.0	28.5	--	--	--
27	17.5	10.5	--	5.0	7.5	--	19.0	22.0	28.5	--	--	--
28	17.0	10.0	--	5.0	8.0	--	19.0	22.5	28.5	--	--	--
29	17.0	9.5	--	5.5	--	--	20.0	22.5	29.0	--	--	--
30	16.5	9.5	--	6.0	--	--	20.0	22.0	29.0	--	--	--
31	16.5	--	--	6.0	--	--	--	22.5	--	--	--	--
AVERAGE	19.8	--	9.8	5.2	5.8	--	--	20.8	25.6	--	--	--

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 1971.
Water temperatures: October 1957 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, unknown; minimum, unknown.
Water temperatures: Maximum, unknown; minimum, unknown.

Period of record:

Specific conductance: Maximum daily, 636 micromhos Oct. 12, 1959; minimum daily, 219 micromhos Mar. 27, 28, 30, 1964.
Water temperatures: Maximum, 32°C July 21, 24, Aug. 14, 1962, July 2, 3, 5, 6, 1969; minimum, 3° C Jan. 12, 1962.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (S04) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 13	--	7.2	20	35	8.4	17	3.7	112	38	18
NOV. 25	--	7.5	20	47	12	25	2.3	131	64	28
DEC. 23	--	8.4	40	52	14	24	3.4	157	69	26
FEB. 19	--	7.7	10	40	12	18	3.0	128	50	21
MAR. 24	--	7.5	10	37	5.6	13	3.3	104	44	16
MAY 3	--	7.8	0	48	15	21	3.0	148	62	23
JUNE 4	--	6.1	0	40	8.5	20	2.7	105	57	21
JULY 21	--	5.8	0	54	14	33	3.3	159	73	34
AUG. 26	--	4.7	0	46	11	28	3.0	125	68	29

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 13	0.3	2.5	195	185	122	30	327	21.5	10	7.2
NOV. 25	.4	5.7	270	257	166	59	449	--	10	7.8
DEC. 23	.4	6.0	295	280	189	60	482	10.5	15	7.5
FEB. 19	.4	2.6	229	214	148	50	381	6.5	10	7.9
MAR. 24	.3	4.8	200	186	128	43	319	9.0	10	7.9
MAY 3	.5	4.1	299	258	182	61	441	--	10	7.6
JUNE 4	.4	3.1	244	211	135	49	370	--	10	7.5
JULY 21	.8	2.0	323	298	191	61	524	--	10	7.3
AUG. 26	.5	3.3	281	256	159	56	449	--	10	7.8

07374400 MISSISSIPPI RIVER AT LULING FERRY, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	494	414	429	398	339	300	340	455	402	444	489	463
2	489	420	429	392	--	296	453	460	369	449	486	479
3	494	430	429	380	--	309	354	468	367	446	465	489
4	479	437	430	379	--	335	368	388	405	452	452	489
5	451	450	448	369	--	359	368	438	370	448	442	498
6	433	461	448	352	--	352	390	453	388	444	444	491
7	424	448	447	348	--	332	390	451	389	440	444	490
8	429	449	440	346	--	315	388	451	396	453	472	481
9	394	449	429	350	--	304	392	456	398	460	464	463
10	350	449	429	356	--	300	387	461	402	476	443	459
11	326	444	431	349	--	296	396	485	413	473	451	472
12	315	450	429	342	--	296	397	443	414	482	432	472
13	385	461	422	332	--	301	400	425	424	478	484	469
14	336	447	429	332	--	300	401	415	431	471	441	462
15	339	429	436	334	--	296	404	394	440	471	420	468
16	350	433	451	340	--	297	405	403	435	--	420	472
17	358	422	456	350	--	297	408	410	428	--	431	477
18	370	433	459	370	--	297	409	386	433	--	464	496
19	395	462	461	392	--	302	415	389	448	--	419	496
20	391	462	464	387	--	302	428	389	445	--	420	494
21	405	480	467	365	--	298	430	387	451	--	423	485
22	413	487	477	344	--	305	436	387	459	524	440	494
23	406	476	470	342	--	--	444	390	452	547	449	494
24	421	460	481	344	--	--	454	386	451	579	455	495
25	439	447	481	346	--	--	454	390	447	545	460	503
26	474	453	479	336	--	--	453	373	460	547	462	501
27	435	447	474	344	--	--	455	397	470	543	468	524
28	422	447	472	351	--	--	446	354	487	544	--	515
29	422	437	458	349	--	--	439	351	461	524	--	504
30	410	432	436	340	--	--	447	352	481	516	--	508
31	401	--	420	340	--	--	--	348	--	507	--	--
AVERAGE	407	447	449	355	--	--	412	411	427	491	450	487

TEMPERATURE (° C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	18	12	9	7	9	11	e 20	23	28	28	28
2	28	18	11	9	--	9	11	e 20	23	28	27	29
3	28	17	12	9	--	e 9	11	20	23	28	27	29
4	28	17	12	9	--	e 8	11	20	23	29	27	29
5	28	17	12	8	--	8	11	21	23	29	27	29
6	27	17	12	8	--	8	12	21	23	29	27	28
7	24	17	11	7	--	8	12	21	24	29	27	29
8	24	17	11	7	--	8	12	21	24	29	27	28
9	23	16	12	7	--	8	13	21	24	29	27	28
10	23	16	12	6	--	8	13	21	24	29	28	28
11	23	16	12	7	--	9	13	21	25	30	28	28
12	23	16	12	7	--	9	13	21	25	30	28	28
13	e 22	15	12	7	--	9	e 13	21	28	30	28	28
14	22	15	11	7	--	9	13	21	26	30	28	27
15	22	14	11	7	--	9	13	21	26	30	28	28
16	20	14	12	7	--	9	e 13	21	26	--	28	28
17	20	13	12	7	--	9	14	21	26	--	28	27
18	20	14	12	7	--	11	14	21	27	--	28	27
19	20	14	12	7	--	11	15	21	27	--	28	27
20	20	13	12	7	--	13	16	21	27	--	28	28
21	19	14	12	7	--	11	16	21	27	--	28	27
22	19	14	12	7	--	12	16	21	27	30	28	28
23	19	13	11	7	--	--	16	21	27	29	29	27
24	19	12	11	7	--	--	17	21	27	30	e 29	27
25	19	13	11	7	--	--	18	21	27	29	e 29	27
26	19	12	10	7	--	--	18	21	28	29	29	27
27	18	12	10	7	--	--	18	21	28	29	29	27
28	18	12	11	7	--	--	18	21	28	28	30	27
29	18	12	11	7	--	--	19	21	28	28	28	27
30	e 18	12	10	7	--	--	19	22	28	28	28	26
31	18	--	9	7	--	--	--	23	--	28	28	--
AVERAGE	22	15	11	7	--	--	14	21	26	29	28	28

e Estimated

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 1971.
Water temperatures: November 1970 to September 1971.

REMARKS.--Continuous recorder at this station.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE		DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT.	20	--	6.5	20	40	9.7	21	3.6	121	47	24
NOV.	12	--	6.2	30	46	13	25	3.6	134	66	26
DEC.	8	--	7.8	20	46	13	22	3.2	132	69	24
JAN.	7	--	6.6	40	41	8.4	16	3.5	104	48	21
FEB.	2	--	8.1	70	40	8.8	14	1.9	105	48	19
FEB.	25	--	--	--	--	--	--	--	--	--	--
MAR.	16	--	7.4	30	35	7.4	12	3.4	94	38	15
MAR.	30	--	--	--	--	--	--	--	--	--	--
APR.	27	--	8.7	20	52	13	21	3.2	152	62	23
MAY	26	--	6.2	60	40	10	18	3.0	112	57	20
JUNE	9	--	6.7	10	43	9.9	21	3.1	126	61	21
JULY	2	--	7.0	10	46	11	28	3.4	138	59	30
AUG.	18	--	7.1	20	42	11	27	3.4	132	59	27
SEPT.	13	--	2.3	20	46	12	29	3.4	136	66	29

DATE		FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT.	20	0.5	2.6	226	215	140	41	385	20.0	10	7.0
NOV.	12	.5	3.7	274	258	168	58	451	15.0	10	7.0
DEC.	8	.4	5.3	261	256	170	62	444	11.0	10	7.5
JAN.	7	.3	5.1	211	201	137	52	349	6.5	30	7.6
FEB.	2	.3	4.6	202	197	136	50	337	6.0	15	7.1
FEB.	25	--	--	--	--	--	--	306	7.0	--	--
MAR.	16	.3	5.8	193	170	118	41	299	8.0	10	7.9
MAR.	30	--	--	--	--	--	--	344	10.0	--	--
APR.	27	.6	4.9	272	263	185	60	453	17.0	10	8.0
MAY	26	.4	3.6	218	213	142	50	373	21.0	20	8.0
JUNE	9	.4	.2	241	228	148	45	399	24.0	15	7.4
JULY	2	.4	2.7	277	256	162	49	459	28.0	15	7.3
AUG.	18	.4	2.0	256	244	150	42	432	29.0	20	7.3
SEPT.	13	.6	1.8	276	257	164	52	464	28.0	20	7.5

[illegible]

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C) WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	--	432	382	--	--	343	418	344	--	--	459
2	--	--	428	374	--	--	338	415	342	395	--	464
3	--	--	428	380	--	--	343	417	350	405	--	474
4	--	--	430	363	--	--	349	416	355	443	--	475
5	--	--	431	339	--	--	352	410	356	502	--	494
6	--	--	435	329	--	--	349	417	359	500	--	495
7	--	--	430	320	--	--	361	416	367	--	--	486
8	--	--	414	325	--	--	375	417	372	--	--	477
9	--	--	411	332	--	--	383	415	373	--	--	468
10	--	--	405	336	--	--	394	416	384	--	--	458
11	--	--	408	336	--	--	402	420	388	--	437	459
12	--	--	399	327	--	--	391	412	400	--	426	465
13	--	--	402	321	--	--	384	399	402	--	428	451
14	--	--	409	321	--	--	389	396	415	454	432	438
15	--	--	416	315	--	--	395	391	408	454	424	430
16	--	--	427	311	--	280	396	377	400	456	418	439
17	--	--	430	316	--	289	390	373	--	471	422	443
18	--	--	432	330	--	290	394	379	--	478	413	454
19	--	--	447	350	--	290	395	384	--	484	--	470
20	--	--	451	340	--	290	401	361	--	--	--	462
21	--	--	453	315	--	292	396	370	--	--	--	446
22	--	--	457	300	--	304	396	380	--	--	--	436
23	--	--	461	301	--	307	402	376	--	--	--	462
24	--	443	461	301	--	307	410	371	--	--	434	465
25	--	435	464	297	--	318	416	376	--	--	440	463
26	--	443	460	295	--	314	422	361	--	--	448	467
27	--	445	448	275	--	323	421	359	--	--	451	473
28	--	445	441	274	--	331	424	347	--	--	456	487
29	--	438	445	278	--	338	420	346	--	--	457	466
30	--	433	420	281	--	342	419	345	--	--	466	475
31	--	--	401	275	--	346	--	349	--	--	466	--
AVERAGE	--	--	431	321	--	--	388	388	--	--	--	463

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	--	8.9	--	10.5	--	9.7	7.5	6.4	--	--	6.8
2	--	--	8.9	--	10.7	--	9.8	7.5	6.1	5.5	--	6.9
3	--	--	8.9	--	10.9	--	9.9	7.4	5.7	5.5	--	7.0
4	--	--	8.8	--	10.6	10.1	9.9	7.2	5.3	5.4	--	6.9
5	--	--	8.8	--	10.3	10.0	9.9	7.1	--	5.3	--	6.9
6	--	--	8.8	--	9.1	9.8	9.9	7.7	--	5.3	--	7.2
7	--	--	8.8	11.9	9.2	9.8	9.9	7.8	--	--	--	7.2
8	--	--	9.0	11.8	9.6	9.7	9.9	7.7	--	--	--	6.9
9	--	--	9.5	11.6	9.5	9.6	9.9	7.7	6.3	--	--	6.8
10	--	--	9.4	11.5	9.4	9.5	9.9	7.7	6.3	--	--	6.8
11	--	--	9.3	11.8	9.3	9.4	9.8	7.8	6.2	--	5.6	6.7
12	--	--	9.1	11.9	9.4	9.4	9.6	7.8	6.0	--	5.6	6.6
13	--	--	9.0	11.8	9.5	9.4	9.5	7.8	5.9	--	5.6	6.9
14	--	--	8.9	11.8	9.2	9.4	9.4	7.6	5.9	5.3	5.7	6.9
15	--	--	9.0	11.9	9.2	9.4	9.4	7.6	6.0	5.3	5.9	6.7
16	--	--	9.1	11.8	9.3	9.6	9.3	7.6	6.1	5.3	5.9	6.7
17	--	--	9.0	11.5	--	9.7	9.3	7.2	--	5.3	5.8	6.7
18	--	--	8.9	11.2	--	9.7	9.3	7.3	--	5.4	5.7	6.5
19	--	--	8.9	10.9	--	9.8	9.2	7.5	--	5.4	--	6.4
20	--	--	9.0	10.9	--	9.8	9.2	7.3	--	--	--	6.2
21	--	--	9.0	10.8	--	9.7	9.0	7.2	--	--	--	5.4
22	--	--	9.0	10.8	--	9.6	8.7	7.0	--	--	--	5.2
23	--	--	9.0	10.9	--	9.6	8.5	7.0	--	--	--	5.6
24	--	8.9	9.1	11.0	--	9.6	8.3	7.0	--	--	6.0	5.6
25	--	8.7	9.2	11.0	--	9.7	8.2	6.9	--	--	6.0	5.8
26	--	8.6	9.1	11.0	--	9.8	8.1	6.6	--	--	5.9	6.4
27	--	8.6	8.8	11.0	--	9.8	7.9	6.7	--	--	5.8	6.8
28	--	8.7	8.8	10.9	--	9.9	7.8	6.7	--	--	5.9	7.1
29	--	8.7	8.9	11.0	--	9.8	7.7	6.8	--	--	6.1	7.0
30	--	8.8	9.0	11.0	--	9.9	7.5	6.7	--	--	6.2	6.8
31	--	--	--	11.0	--	9.7	--	6.7	--	--	6.5	--
AVERAGE	--	--	9.0	11.3	--	9.7	9.1	7.3	--	--	--	6.6

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA.--Continued

TEMPERATURE (°C) OF WATER, NOVEMBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		--	9.5	8.0	--	--	10.0	19.5	22.0	--	--	29.5
2		--	9.5	7.5	6.5	--	10.0	19.5	22.0	29.0	--	29.5
3		--	9.5	7.0	6.5	--	10.0	20.0	22.0	29.0	--	29.0
4		--	9.5	7.0	6.5	7.5	10.0	20.0	22.5	28.0	--	28.5
5		--	9.5	7.0	6.5	7.0	10.5	20.0	22.5	--	--	29.0
6		--	9.5	6.5	6.5	7.0	10.5	20.0	23.0	--	--	28.5
7		--	9.5	6.5	6.5	7.0	10.5	20.0	23.0	--	--	28.0
8		--	10.0	--	6.5	7.0	10.5	20.5	23.5	--	--	28.0
9		--	10.5	--	6.5	7.0	10.5	20.5	24.0	--	--	28.0
10		--	10.5	--	6.0	7.0	11.0	20.5	24.5	--	--	28.0
11		--	10.5	--	6.0	7.0	11.0	20.5	25.0	--	27.5	28.0
12		--	10.5	--	6.0	7.0	11.0	20.5	25.5	--	28.0	28.0
13		--	10.5	--	6.0	7.5	11.5	20.5	25.5	--	28.0	28.0
14		--	10.5	--	6.0	7.5	12.0	21.0	26.0	--	28.5	28.0
15		--	10.5	--	6.0	8.0	12.5	20.5	28.0	--	28.5	28.0
16		--	10.0	--	5.5	8.0	12.5	20.5	28.5	--	28.5	28.0
17		--	10.0	--	--	8.5	13.0	20.5	--	--	28.5	28.0
18		--	10.0	6.0	--	9.0	13.5	20.5	--	--	28.5	28.0
19		--	10.0	6.0	--	9.5	14.0	20.0	--	--	--	27.5
20		--	10.0	--	--	9.5	14.5	20.5	--	--	--	27.5
21		--	10.0	--	--	9.5	14.5	20.5	--	--	--	27.5
22		--	10.0	--	--	9.5	15.0	20.5	--	--	--	27.0
23		--	10.0	--	--	10.0	16.0	21.0	--	--	--	27.0
24		11.0	10.0	--	--	10.0	16.0	21.0	--	--	29.0	27.0
25		10.5	10.0	--	--	10.0	16.5	21.0	--	--	29.0	27.0
26		10.5	9.5	--	--	10.5	17.0	21.0	--	--	29.5	27.0
27		10.0	9.5	--	--	10.0	17.5	21.0	--	--	29.5	27.0
28		10.0	9.5	--	--	10.0	18.5	21.5	--	--	29.5	26.5
29		10.0	9.0	--	--	9.5	19.0	21.5	--	--	29.5	26.5
30		9.5	8.5	--	--	10.0	19.0	22.0	--	--	29.5	26.5
31		--	8.5	--	--	10.0	--	22.0	--	--	29.5	--
AVERAGE		--	10.0	--	--	8.5	13.5	20.5	--	--	--	28.0

MISSISSIPPI RIVER DELTA

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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 1971.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), JANUARY 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				--	475	--	341	710	433	366	366	408
2				--	475	--	341	551	441	341	341	408
3				--	450	--	332	525	441	357	332	366
4				--	450	--	341	525	425	366	332	332
5				--	425	--	332	525	416	357	357	307
6				--	400	--	324	525	425	357	366	324
7				454	410	--	307	534	433	357	324	441
8				--	400	--	332	551	408	366	341	425
9				--	400	--	349	542	408	374	366	425
10				--	300	--	357	520	366	391	399	349
11				--	225	--	357	485	357	433	441	332
12				--	250	--	332	458	374	441	374	324
13				--	255	--	341	441	399	433	357	357
14				--	225	--	374	492	416	433	349	408
15				--	215	--	374	525	441	441	324	357
16				--	250	--	391	517	475	458	324	231
17				--	275	--	408	517	467	467	290	280
18				490	300	--	408	534	467	441	231	250
19				--	330	--	408	534	475	441	223	214
20				--	340	--	425	576	475	492	231	185
21				--	--	--	425	593	408	492	240	180
22				--	--	--	425	542	391	483	257	214
23				--	--	--	525	475	441	483	374	225
24				--	--	--	752	483	458	425	140	200
25				440	423	--	725	492	475	366	120	200
26				425	--	--	761	492	467	341	240	205
27				425	--	--	777	458	479	349	366	231
28				425	--	--	626	433	483	357	190	240
29				410	--	--	593	425	399	374	110	240
30				400	--	366	719	408	408	383	170	240
31				420	--	332	--	408	--	374	350	--
AVERAGE				--	--	--	450	510	432	404	298	297

MISSISSIPPI RIVER DELTA

07381500 ATCHAFALAYA RIVER AT KROTZ SPRINGS, LA.

LOCATION.--Lat 30°32'48", long 91°45'04", in sec.7, T.6 S., R.7 E., Louisiana meridian, St. Landry-Pointe Coupee Parish line, at first pier from west bank on bridge on U.S. Highway 190, 0.5 mile north of town of Krotz Springs, 0.6 mile upstream from New Orleans, Texas and Mexico Railway Co. bridge, 10 miles upstream from Bayou Courtableau, and 42 miles downstream from confluence of Red River and Old River (head of Atchafalaya River).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-55, 1966 (partial-record station), October 1966 to September 1971.
Water temperatures: August 1952 to September 1955.

REMARKS.--Conductance recorder; daily mean values are reported in the daily conductance table.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 13	--	7.2	20	35	9.4	17	3.6	116	39	20
NOV. 10	--	7.0	30	42	11	24	3.6	128	56	25
DEC. 3	--	7.6	20	42	12	21	3.3	128	58	24
JAN. 6	--	7.6	40	37	7.7	17	3.4	97	44	25
FEB. 4	--	7.3	100	37	9.4	15	1.8	115	42	18
MAR. 5	--	7.2	20	33	5.2	17	2.6	92	38	19
APR. 6	--	7.2	10	37	7.9	14	3.1	108	41	18
MAY 6	--	9.1	10	42	11	18	2.6	138	45	21
JUNE 2	--	12	60	33	8.2	16	3.0	96	47	17
JULY 12	--	4.1	10	48	13	26	3.1	163	56	26
AUG. 12	--	5.7	20	35	10	23	2.8	120	43	26
SEPT. 8	--	2.7	0	40	12	30	2.8	140	51	31

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 13	0.2	2.5	195	191	126	31	339	22.0	10	7.0
NOV. 10	.2	4.4	251	236	149	44	414	15.0	15	7.5
DEC. 3	.2	3.6	247	235	154	49	410	12.0	10	7.2
JAN. 6	.1	4.1	203	194	124	44	336	7.0	20	7.2
FEB. 4	.1	2.5	206	190	131	37	333	8.0	20	7.2
MAR. 5	.1	3.5	198	171	104	29	294	8.0	40	7.1
APR. 6	.1	5.2	199	186	125	36	332	11.0	15	8.1
MAY 6	.2	2.0	242	219	152	39	396	20.0	10	7.2
JUNE 2	.2	2.8	207	186	116	37	317	23.0	20	7.7
JULY 12	.2	.9	272	257	172	38	454	31.0	20	7.0
AUG. 12	.2	1.2	216	206	130	32	376	29.0	10	7.3
SEPT. 8	.3	.4	249	239	150	35	442	28.5	10	7.4

MISSISSIPPI RIVER DELTA

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07381500 ATCHAFALAYA RIVER AT KROTZ SPRINGS, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	445	365	385	355	295	265	280	415	--	400	--	470
2	420	375	385	335	305	280	285	385	--	400	--	470
3	400	385	390	330	310	300	290	370	--	400	--	460
4	390	360	390	320	310	295	290	365	--	400	--	445
5	400	360	395	315	315	280	295	365	--	410	--	440
6	385	360	390	320	310	260	310	370	--	425	--	440
7	360	--	395	329	300	250	320	375	--	430	--	435
8	330	--	400	315	300	245	325	375	--	430	--	430
9	300	--	400	300	300	240	325	365	--	440	--	440
10	305	400	395	290	310	245	330	360	--	440	--	445
11	300	390	400	300	320	245	335	360	--	440	--	445
12	310	390	410	310	325	250	345	355	--	440	--	450
13	310	385	415	330	325	255	345	330	--	--	--	460
14	320	380	420	340	320	255	340	315	--	--	--	470
15	315	395	430	340	325	255	345	300	385	--	--	475
16	325	395	435	350	330	250	355	300	385	--	360	--
17	320	395	445	350	335	245	360	300	390	--	360	--
18	320	400	450	330	325	245	370	295	395	--	355	--
19	330	405	455	300	310	245	375	290	405	--	350	--
20	350	410	450	295	300	260	380	290	400	--	350	--
21	360	395	450	290	305	270	390	315	400	--	355	--
22	400	390	450	295	285	265	395	310	400	--	360	400
23	390	380	440	295	270	265	400	305	410	--	370	405
24	380	380	430	305	260	260	400	285	425	--	375	410
25	350	380	435	310	260	265	395	275	435	--	385	410
26	335	375	430	310	260	275	390	265	440	--	395	425
27	330	370	425	310	255	275	390	--	430	--	400	430
28	335	370	405	300	260	280	390	--	415	--	400	425
29	345	375	380	290	--	280	395	--	410	--	405	425
30	355	380	360	285	--	280	405	--	405	--	430	400
31	365	--	365	290	--	280	--	--	--	--	460	--
AVERAGE	351	383	413	314	301	263	352	332	--	--	--	439

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 1971.
Water temperatures: October 1970 to September 1971.

REMARKS.--Continuous records are collected at this station.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 2	--	--	--	--	--	--	--	--	--	--
OCT. 16	--	7.8	150	11	2.6	10	6.0	44	8.0	14
OCT. 30	--	--	--	--	--	--	--	--	--	--
NOV. 13	--	12	150	15	3.8	23	4.0	68	10	27
NOV. 27	--	--	--	--	--	--	--	--	--	--
DEC. 11	--	16	100	20	5.6	43	6.0	103	12	51
JAN. 12	--	12	--	15	5.2	29	3.8	55	27	33
JAN. 22	--	12	180	16	9.5	33	3.3	70	11	56
FEB. 5	--	12	130	21	8.1	56	4.8	128	14	64
FEB. 19	--	--	--	--	--	--	--	--	--	--
MAR. 8	--	--	--	--	--	--	--	--	--	--
MAR. 19	--	7.0	180	11	3.8	21	3.4	47	8.2	32
APR. 19	--	--	--	--	--	--	3.0	81	9.2	22
MAY 13	--	7.8	70	11	3.0	11	3.5	47	7.4	14
MAY 27	--	--	--	--	--	--	--	--	--	--
JUNE 10	--	--	--	--	--	--	--	--	--	--
JUNE 25	--	15	70	26	7.1	74	3.2	112	18	108
JULY 27	--	9.7	120	15	4.8	20	4.0	63	8.2	28
AUG. 13	--	10	270	15	4.0	10	3.6	69	2.2	13
AUG. 23	--	16	350	19	6.2	22	3.6	89	7.2	28
SEPT. 20	--	5.8	20	8.7	2.5	10	5.0	40	4.6	16

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 2	--	--	--	--	--	--	274	24.0	--	--
OCT. 16	0.1	0.5	106	82	38	2	143	20.0	60	7.1
OCT. 30	--	--	--	--	--	--	153	18.0	--	--
NOV. 13	.3	1.3	140	129	53	0	219	15.0	70	7.8
NOV. 27	--	--	--	--	--	--	245	14.5	--	--
DEC. 11	.2	.3	220	205	73	0	359	17.5	50	7.2
JAN. 12	.1	3.3	188	155	59	14	268	10.0	90	7.1
JAN. 22	.2	2.6	208	178	79	22	323	13.0	35	6.5
FEB. 5	.2	4.1	280	247	86	0	446	15.0	50	6.8
FEB. 19	--	--	--	--	--	--	181	16.5	--	--
MAR. 8	--	--	--	--	--	--	191	13.0	--	--
MAR. 19	.1	2.5	143	112	43	4	205	17.0	55	6.8
APR. 19	.1	2.6	149	125	69	3	226	23.0	45	6.9
MAY 13	.1	.4	99	81	40	1	142	22.0	100	6.5
MAY 27	--	--	--	--	--	--	154	27.0	--	--
JUNE 10	--	--	--	--	--	--	185	30.0	--	--
JUNE 25	.2	.3	312	307	94	2	571	30.0	20	6.4
JULY 27	.1	2.8	149	124	57	5	222	28.0	60	7.2
AUG. 13	.1	.7	125	93	54	0	166	28.0	70	7.0
AUG. 23	.1	3.1	175	149	73	0	266	30.5	50	7.1
SEPT. 20	.1	.7	89	73	32	0	130	24.0	70	6.6

MISSISSIPPI RIVER DELTA

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073869.35 VERMILION RIVER NEAR LAFAYETTE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 2	--	--	--	--	--	--	--	--	--
OCT. 16	3.5	--	--	--	--	--	--	--	--
OCT. 30	3.7	--	--	--	--	--	--	--	--
NOV. 13	2.5	--	--	--	--	--	--	--	--
NOV. 27	2.0	--	--	--	--	--	--	--	--
DEC. 11	1.0	--	--	--	--	--	--	--	--
JAN. 12	--	--	--	--	--	--	--	--	--
JAN. 22	6.2	--	--	--	--	--	--	--	--
FEB. 5	4.7	--	--	--	--	--	--	--	--
FEB. 19	6.0	--	--	--	--	--	--	--	--
MAR. 8	--	--	--	--	--	--	--	--	--
MAR. 19	5.7	--	--	--	--	--	--	--	--
APR. 19	4.4	--	--	--	--	--	--	--	--
MAY 13	--	--	--	--	--	--	--	--	--
MAY 27	5.4	--	--	--	--	--	--	--	--
JUNE 10	2.9	--	--	--	--	--	--	--	--
JUNE 25	3.2	--	--	--	--	--	--	--	--
JULY 27	3.0	--	--	--	--	--	--	--	--
AUG. 13	1.4	--	--	--	--	--	--	--	--
AUG. 23	1.5	--	--	--	--	--	--	--	--
SEPT. 20	2.6	--	--	--	--	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	--	--	--	310	--	166	364	143	323	198	489
2	--	--	--	--	315	--	187	411	150	421	173	470
3	--	--	--	--	311	--	240	385	182	307	191	549
4	--	--	--	--	--	--	168	372	188	153	187	749
5	--	--	--	--	--	--	131	363	194	217	205	345
6	--	--	--	--	--	--	151	394	196	257	189	399
7	--	--	--	--	--	--	170	436	165	271	204	513
8	--	--	--	--	--	--	141	361	226	335	184	412
9	--	--	--	--	--	--	167	371	207	316	133	653
10	--	--	--	--	--	--	127	238	204	314	132	498
11	--	--	--	--	--	--	126	195	220	335	160	279
12	--	--	--	183	--	--	134	196	284	342	214	376
13	--	--	--	264	--	--	149	140	251	330	172	334
14	--	--	--	--	--	--	235	124	215	288	175	304
15	--	--	--	300	--	--	215	118	201	317	163	382
16	--	--	--	--	--	--	276	129	258	337	172	303
17	--	--	--	258	--	--	232	137	253	355	195	--
18	--	--	--	--	--	--	262	139	276	364	258	--
19	--	--	--	--	--	301	255	144	294	364	226	--
20	--	--	--	299	--	173	249	153	305	416	243	122
21	--	--	--	297	--	156	254	170	334	524	251	128
22	--	--	--	332	--	157	334	189	467	470	426	129
23	--	--	--	267	--	149	401	196	491	485	288	184
24	--	--	--	293	--	143	366	164	432	328	277	156
25	--	--	--	328	--	137	374	191	525	241	296	143
26	--	--	--	--	--	190	348	166	589	179	346	149
27	--	--	--	--	--	166	318	178	433	238	330	165
28	--	--	--	325	--	190	345	155	250	268	271	164
29	--	--	--	335	--	185	355	182	261	284	331	162
30	--	--	--	273	--	182	402	159	273	277	352	185
31	--	--	--	273	--	148	--	160	--	288	511	--
AVERAGE	--	--	--	--	--	--	243	228	282	321	240	324

MISSISSIPPI RIVER DELTA

07386935 VERMILION RIVER, NEAR LAFAYETTE, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	--	2.1	0.8	--	--	5.0	3.2	3.1	1.0	2.0	1.3
2	--	--	1.7	.9	--	--	5.1	2.8	2.6	.6	1.9	1.3
3	--	--	1.5	1.7	--	--	5.6	3.3	2.1	1.7	2.1	1.2
4	--	--	1.4	1.8	--	--	5.9	3.4	2.6	2.5	2.6	1.4
5	--	--	1.3	1.4	--	--	6.1	3.6	2.8	1.9	2.5	1.2
6	--	--	.9	3.2	--	--	6.4	3.4	2.7	1.7	2.1	1.2
7	--	--	.8	3.7	--	--	7.1	2.8	2.6	2.1	1.6	1.2
8	--	--	.7	3.9	--	6.2	7.1	1.3	2.1	1.8	1.7	1.2
9	--	--	.9	4.5	--	5.4	6.8	.5	1.7	2.4	1.5	1.2
10	--	--	1.7	4.5	--	7.4	6.7	2.2	2.4	2.4	1.4	1.2
11	--	--	2.5	4.9	6.0	7.5	6.6	2.7	2.6	2.7	1.5	1.2
12	--	--	1.9	4.2	6.9	5.6	6.7	3.5	2.6	3.1	1.3	1.2
13	--	--	1.4	5.5	7.9	5.5	6.3	3.5	2.6	2.7	1.4	1.2
14	--	--	.7	6.7	7.1	5.1	6.0	4.1	1.5	2.0	1.5	1.2
15	--	--	2.1	4.9	--	4.7	5.6	4.2	.7	1.8	1.5	1.2
16	--	--	2.6	--	--	3.8	5.2	4.3	1.3	2.1	1.3	--
17	--	--	2.4	--	--	3.2	4.7	4.3	1.7	2.6	1.3	--
18	--	--	2.2	--	--	2.7	4.1	4.2	1.1	1.5	1.2	--
19	--	--	2.2	--	--	--	3.9	4.2	.6	2.9	1.2	--
20	--	--	2.5	--	--	4.6	3.3	3.9	.6	3.0	1.1	1.5
21	--	--	1.8	--	--	4.1	2.4	3.3	1.4	2.3	1.1	1.5
22	--	--	1.2	4.1	--	4.4	2.2	3.6	2.0	2.0	1.2	1.2
23	--	--	1.0	5.5	--	4.3	2.0	3.8	1.4	2.2	1.2	1.2
24	--	--	1.3	4.3	--	4.5	2.8	3.7	2.9	2.6	1.4	1.2
25	--	--	1.4	4.0	--	4.7	2.5	3.6	3.5	2.8	1.3	1.2
26	--	--	.8	3.2	--	4.1	2.3	3.6	2.0	3.3	1.4	1.2
27	--	3.9	.7	2.4	--	--	2.3	3.7	1.2	3.6	1.4	1.2
28	--	4.0	.9	1.6	--	--	1.3	3.4	1.8	2.8	1.4	1.2
29	--	3.1	1.1	1.5	--	--	1.0	3.2	1.4	2.2	1.7	1.2
30	--	2.5	1.4	2.3	--	--	2.3	3.0	1.0	1.8	1.6	1.2
31	--	--	1.9	1.9	--	--	--	3.4	--	1.9	1.6	--
AVERAGE	--	--	1.5	3.3	--	--	4.5	3.3	2.0	2.3	1.5	1.2

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	17.0	17.0	12.0	15.0	--	8.0	26.0	28.5	28.0	25.5	29.0
2	--	16.0	17.0	12.0	14.0	--	18.5	26.0	28.5	28.5	25.0	28.5
3	--	16.0	18.0	12.0	14.0	--	18.0	26.5	28.5	28.0	24.5	28.5
4	--	15.0	18.0	13.0	14.0	--	18.0	26.0	28.5	27.5	25.0	28.0
5	--	14.0	19.0	12.0	14.0	--	18.5	25.5	29.0	29.5	25.5	26.5
6	--	14.0	19.0	10.0	--	--	18.0	26.0	29.0	30.5	26.0	27.0
7	--	15.0	17.0	9.0	--	--	17.5	26.0	29.5	30.5	27.0	27.5
8	--	15.0	16.0	8.0	--	12.5	17.5	24.5	30.0	31.0	26.5	27.0
9	--	16.0	17.0	8.0	--	11.5	18.0	24.5	30.0	30.5	27.0	27.0
10	--	16.0	17.0	8.0	--	12.0	18.5	25.5	30.0	29.5	27.5	26.5
11	--	16.0	18.0	9.0	--	11.5	19.0	25.0	30.5	29.5	28.5	27.0
12	--	16.0	15.0	10.0	--	12.5	18.5	25.0	30.5	30.0	29.0	27.5
13	--	15.0	14.0	11.0	--	14.0	19.5	23.0	30.5	30.5	29.0	28.0
14	--	--	14.0	13.0	--	15.0	20.0	22.5	30.5	31.0	28.5	27.5
15	--	--	14.0	14.0	--	16.5	20.5	22.5	31.0	31.5	29.0	27.0
16	19.0	--	14.0	14.0	--	17.0	21.0	22.5	31.5	32.0	29.0	25.0
17	18.0	--	14.0	14.0	--	16.5	21.0	23.5	31.5	32.0	29.5	--
18	17.0	--	13.0	14.0	--	15.5	21.0	23.5	31.5	32.0	29.0	--
19	18.0	--	15.0	13.0	--	17.0	23.5	24.5	30.0	32.0	29.5	--
20	17.0	--	15.0	12.0	--	15.5	24.0	25.0	29.5	31.5	29.5	24.0
21	17.0	--	16.0	12.0	--	14.5	24.5	25.5	29.5	31.0	29.0	23.5
22	17.0	--	17.0	10.0	--	15.0	24.5	26.0	30.0	30.5	29.0	23.0
23	17.0	--	18.0	13.0	--	16.0	25.5	26.5	30.5	28.5	30.0	23.5
24	18.0	--	18.0	13.0	--	15.5	25.5	26.5	30.0	28.0	30.0	24.0
25	19.0	--	17.0	13.0	--	15.5	25.5	27.0	30.5	27.5	30.0	24.5
26	20.0	--	14.0	14.0	--	16.0	25.5	27.0	31.0	28.0	30.0	24.0
27	19.0	15.0	13.0	15.0	--	16.5	26.0	27.5	30.0	28.0	30.5	24.5
28	18.0	15.0	12.0	14.0	--	16.5	26.5	27.0	28.5	27.5	30.5	25.0
29	17.0	16.0	14.0	13.0	--	17.5	27.0	27.5	28.0	27.5	30.5	25.0
30	18.0	17.0	15.0	15.0	--	18.0	27.0	27.5	28.0	27.5	30.0	25.0
31	17.0	--	13.0	16.0	--	17.5	--	28.0	--	27.0	29.5	--
AVERAGE	--	--	15.5	12.0	--	--	21.5	25.5	30.0	29.5	28.5	26.0

MISSISSIPPI RIVER DELTA

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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 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 4,750 micromhos May 6; minimum daily, unknown.

Period of record:

Specific conductance (1966-71): Maximum daily, 4,750 micromhos May 6, 1971; minimum daily, 45 micromhos Feb. 13, 17, 1966.

REMARKS.--Conductance recorder; daily mean values are reported in the daily conductance table.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (MG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (S04) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 30	--	6.6	110	9.5	1.3	14	6.0	38	8.2	19
NOV. 27	--	11	190	14	3.9	21	4.0	62	14	26
DEC. 17	--	8.9	240	13	3.8	25	3.6	50	11	36
JAN. 22	--	14	350	17	0.2	25	3.0	69	11	39
FEB. 20	--	9.1	50	15	1.1	16	3.7	45	8.8	22
MAR. 19	--	6.8	100	10	3.2	17	3.8	44	6.6	24
APR. 19	--	8.7	110	14	4.4	23	3.3	75	9.2	27
MAY 27	--	8.8	90	14	4.1	20	4.4	65	8.0	26
JUNE 25	--	12	30	16	0.3	32	2.4	97	7.4	35
JULY 27	--	10	100	16	4.4	24	3.4	78	4.0	29
SEPT. 2	--	15	--	18	0.6	31	4.0	93	9.2	39
SEPT. 20	--	6.0	40	8.8	1.9	11	5.2	36	5.2	17

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 30	0.1	0.9	114	85	29	0	147	18.0	55	7.2
NOV. 27	.1	.0	137	125	51	0	211	14.5	70	7.0
DEC. 17	.1	1.7	161	129	48	7	242	13.5	70	7.0
JAN. 22	.2	4.0	198	153	68	11	271	13.0	80	6.7
FEB. 20	.1	1.6	121	99	42	5	172	16.0	--	6.6
MAR. 19	.1	2.2	113	96	38	2	173	18.0	80	6.3
APR. 19	.1	.5	159	127	53	0	232	23.0	120	6.5
MAY 27	.1	.6	150	118	52	0	210	21.5	90	6.6
JUNE 25	.2	.6	169	160	66	0	288	30.0	60	7.3
JULY 27	.1	1.4	148	130	58	0	236	29.0	60	7.1
SEPT. 2	.1	2.1	195	171	72	0	298	29.0	70	7.5
SEPT. 20	.1	1.0	89	74	30	0	129	25.0	60	6.5

MISSISSIPPI RIVER DELTA

07386980 Vermilion River at Perry, La.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	165	270	170	--	290	220	330	170	290	220	300
2	230	175	265	155	--	285	195	340	180	320	200	285
3	245	195	260	165	--	250	185	350	185	330	145	260
4	270	180	275	175	--	200	195	395	190	290	165	275
5	270	190	290	205	--	190	230	2,700	185	290	160	295
6	250	210	275	210	--	260	220	4,750	190	200	180	375
7	235	215	275	230	--	215	180	3,500	200	195	175	390
8	205	225	270	245	--	210	185	660	200	215	185	420
9	240	235	270	210	--	200	245	380	215	215	110	425
10	270	210	285	200	--	210	205	420	215	230	100	450
11	260	210	290	220	--	330	210	370	220	230	125	390
12	310	210	345	260	--	320	220	220	210	225	140	430
13	190	175	270	265	--	155	225	185	205	285	175	310
14	140	210	250	265	--	165	210	160	215	285	170	270
15	---	180	250	260	--	190	210	150	220	290	170	260
16	--	180	275	285	--	185	225	135	220	260	185	e180
17	--	200	260	280	--	185	235	140	225	250	180	100
18	--	180	235	270	--	190	260	150	230	270	180	110
19	--	230	340	285	--	195	260	170	240	290	185	130
20	--	230	430	280	175	200	255	170	520	400	190	135
21	--	225	395	285	175	240	265	175	390	420	220	150
22	--	210	370	290	190	180	270	175	565	370	245	155
23	--	225	340	--	220	210	280	180	380	320	275	160
24	--	215	260	--	225	220	235	190	420	330	230	200
25	--	230	260	--	230	220	260	190	360	380	225	170
26	--	230	160	--	245	180	275	195	270	410	235	165
27	--	230	155	--	280	175	300	200	270	260	245	155
28	--	250	160	--	310	185	305	200	270	200	265	170
29	--	275	180	--	--	195	300	190	260	230	300	175
30	155	290	190	--	--	195	330	205	270	230	305	185
31	160	--	170	--	--	230	--	190	--	230	310	--
AVERAGE	--	213	268	--	--	215	240	573	263	282	200	249

e Estimated

CALCASIEU RIVER BASIN

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08017090 CALCASIEU RIVER NEAR SULPHUR, LA.

LOCATION.--Lat 30°06'09", long 93°19'39", NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 20	--	2.7	80	100	204	--	--	41	148	3100
DEC. 2	--	5.1	10	--	--	4050	200	82	952	6960
DEC. 16	--	4.2	70	--	--	4550	310	96	1090	7600
JAN. 22	--	5.4	30	158	354	--	--	71	338	5140
FEB. 23	--	5.9	70	42	58	550	23	32	130	912
MAR. 17	--	6.6	60	70	101	840	--	36	240	1520
APR. 7	--	10	--	60	107	1000	38	58	244	1700
MAY 19	--	5.5	40	86	27	480	24	34	110	850
JUNE 16	--	6.6	30	188	320	2590	80	81	84	5220
JULY 28	--	9.7	20	285	602	--	150	102	132	9200
AUG. 17	--	7.6	10	198	499	--	--	88	117	7630
SEPT. 22	--	9.9	30	164	357	3170	120	83	682	5400

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 20	0.3	--	--	--	1090	1060	9840	19.0	30	6.9
DEC. 2	.7	--	13500	--	2320	--	20000	19.5	20	7.1
DEC. 16	.8	--	14800	--	2600	--	22200	15.0	15	7.3
JAN. 22	.3	--	10300	--	1850	1790	16200	14.5	15	6.8
FEB. 23	.2	--	1890	--	342	316	3450	16.5	80	6.6
MAR. 17	.2	--	3060	--	590	560	5380	19.5	60	6.7
APR. 7	.4	--	6870	--	590	542	11000	15.0	40	7.1
MAY 19	.2	0.5	1800	1600	325	300	3060	24.5	50	6.4
JUNE 16	.6	--	10400	--	1790	1720	16000	--	30	7.4
JULY 28	.8	--	17900	--	3190	3110	26500	31.0	30	7.5
AUG. 17	.7	--	15000	--	2550	2480	22400	30.5	5	7.9
SEPT. 22	1.0	--	10500	--	1880	1810	15500	26.5	40	7.5

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 20	6.1	1.0	90	--	--	642	1000	64	45
DEC. 2	5.8	1.5	113	--	0.29	0	16	4	--
DEC. 16	7.2	2.6	131	--	.32	32	690	20	--
JAN. 22	9.3	3.7	58	--	.04	160	76	--	--
FEB. 23	7.5	4.1	37	1.2	.26	110	580	--	--
MAR. 17	6.6	3.1	114	.10	.12	300	1600	--	--
APR. 7	5.9	2.3	88	--	.20	0	850	76	--
MAY 19	5.2	2.6	33	--	.20	0	700	300	70
JUNE 16	--	--	77	--	.13	0	--	16	2
JULY 28	1.7	3.4	125	.00	.36	83	90	6	60
AUG. 17	6.1	5.8	70	.00	--	100	4000	8	4
SEPT. 22	3.7	3.2	61	1.2	.18	200	16000	66	1200

SABINE RIVER BASIN

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, 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.--36⁵/₈ sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53, 1960, 1966-70 (partial-record station), October 1970 to September 1971.

EXTREMES.--1970-71:

Specific Conductance: Maximum daily, 207 micromhos Oct. 2; minimum daily, 29 micromhos Oct. 10.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
JUNE 3	--	14	20	7.8	0.9	5.9	0.9	28	5.0	6.0
JULY 28	--	9.3	40	6.0	1.2	5.5	1.1	30	1.4	5.0
AUG. 17	--	6.4	20	4.9	.4	4.0	1.2	20	1.4	4.1
SEPT. 22	--	26	--	14	.2	15	3.2	55	2.8	15

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
JUNE 3	0.1	0.4	68	55	23	0	80	28.0	20	6.6
JULY 28	.1	.4	52	45	20	0	61	26.0	40	6.8
AUG. 17	.0	.4	54	33	14	0	51	29.0	20	6.7
SEPT. 22	.2	2.8	120	106	36	0	162	--	40	6.7

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO ₄) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
JUNE 3	8.0	1.3	0	--	--	--	3200	80	50
JULY 28	6.7	2.7	43	--	--	--	680	460	27
AUG. 17	7.4	.8	28	--	--	--	1100	200	46
SEPT. 22	8.8	1.4	15	--	--	--	--	--	--

08028000 BAYOU ANACOCO NEAR ROSEFINE, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	43	60	46	50	45	66	94	91	114	63	75
2	207	45	78	47	54	45	65	95	83	113	53	78
3	101	52	59	49	51	45	64	112	77	115	55	78
4	159	57	60	49	52	44	64	93	82	116	54	78
5	31	50	58	51	52	44	65	91	72	58	54	78
6	31	46	60	50	52	46	84	93	90	58	53	87
7	30	53	64	50	55	45	64	92	119	59	53	87
8	30	49	64	49	50	45	64	93	121	58	53	86
9	30	45	62	50	51	45	64	92	122	58	108	174
10	29	45	62	50	52	45	65	63	122	59	65	183
11	31	47	63	53	51	45	64	65	122	57	55	178
12	30	47	62	51	50	45	77	63	121	125	76	183
13	30	45	63	51	51	45	77	65	122	90	117	67
14	30	46	75	50	51	45	77	63	117	121	54	69
15	31	47	25	50	48	48	80	66	122	68	57	70
16	159	48	64	50	47	46	80	63	123	63	68	69
17	159	51	63	50	47	50	77	63	123	58	64	71
18	32	49	64	62	47	46	e77	63	124	106	63	70
19	45	48	65	60	47	47	76	63	124	91	65	69
20	44	50	83	61	48	46	77	63	124	68	65	68
21	44	51	46	61	47	47	76	64	119	64	64	63
22	44	50	46	60	49	45	76	63	114	64	63	69
23	44	60	46	60	48	45	77	63	121	65	64	71
24	44	59	46	59	50	45	77	55	114	130	63	62
25	44	84	47	61	48	45	76	88	114	63	64	71
26	30	86	46	60	51	47	95	90	116	68	63	64
27	44	69	48	62	50	45	93	85	114	63	64	64
28	50	60	48	65	51	47	94	86	111	64	63	65
29	49	75	45	59	--	64	94	86	113	64	63	64
30	42	60	47	59	--	65	94	86	116	65	84	65
31	42	--	46	62	--	66	--	70	--	65	86	--
AVERAGE	60	54	63	55	50	48	76	77	112	78	66	86

e Estimated.

COLOR (PLATINUM-COBALT UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	50	40	80	70	60	30	30	30	30	30	40
2	40	80	35	110	60	60	40	25	30	30	30	45
3	25	60	40	11	60	65	30	30	35	30	25	40
4	35	40	35	40	70	70	35	25	35	30	25	40
5	200	40	30	50	80	60	30	30	30	25	25	50
6	200	40	40	50	60	50	25	20	40	20	20	30
7	240	40	60	60	70	60	30	25	30	30	20	40
8	160	50	50	70	40	55	35	25	40	20	20	30
9	200	50	50	60	45	60	40	30	40	30	25	--
10	170	50	55	50	40	50	35	55	40	25	30	--
11	200	40	50	45	40	50	40	60	40	20	25	--
12	80	50	50	40	40	45	40	70	45	20	30	--
13	100	55	40	45	40	55	50	65	45	20	25	45
14	120	50	30	40	45	50	40	55	20	20	25	40
15	80	55	120	45	60	55	40	60	20	15	30	30
16	40	40	35	50	80	50	50	60	20	15	80	40
17	100	40	30	40	90	55	45	50	20	20	70	30
18	80	40	35	50	90	50	--	45	20	25	80	40
19	60	40	40	50	80	60	35	50	25	35	60	40
20	55	50	40	50	80	55	30	50	20	25	80	50
21	50	40	100	50	80	55	30	50	30	30	70	40
22	45	40	110	40	80	40	30	50	25	30	80	50
23	45	30	100	50	80	50	30	50	25	25	50	40
24	40	40	80	60	80	40	30	55	20	30	70	40
25	45	55	100	50	80	40	30	50	25	25	60	50
26	100	55	100	40	80	45	30	50	20	30	60	40
27	50	50	110	40	80	40	20	50	20	30	70	40
28	40	50	80	40	80	50	15	50	30	35	60	40
29	60	50	120	40	--	40	20	50	25	30	70	40
30	50	20	100	45	--	50	30	45	25	30	35	35
31	40	--	100	40	--	40	--	25	--	25	50	35

08028200 BAYOU ANACOCO NEAR KNIGHT, LA.

LOCATION.--Lat 30°52'14", long 93°30'38", in SE $\frac{1}{4}$ sec.20, T.2 S., R.11 W., on line between Beauregard and Vernon Parishes, 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.--Chemical analyses: November 1969 to September 1971.
Water temperatures: December 1969 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum daily, 681 micromhos June 9; minimum daily, 50 micromhos Feb. 27.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 20	--	19	--	12	1.9	95	3.6	91	108	38
NOV. 30	--	--	--	--	--	--	--	--	--	--
DEC. 2	114	16	200	9.8	.6	81	4.8	92	81	29
DEC. 16	--	12	270	6.2	1.1	36	3.6	44	36	17
DEC. 31	--	--	--	--	--	--	--	--	--	--
JAN. 22	--	16	140	10	1.2	70	2.2	76	64	35
FEB. 23	--	12	--	7.3	1.2	38	2.4	44	40	26
MAR. 17	--	13	150	5.4	6.0	6.0	1.6	19	5.6	6.1
MAY 19	--	20	--	13	2.3	72	3.6	95	73	34
JUNE 3	--	18	--	22	1.7	104	3.4	127	115	48
JULY 28	--	14	90	12	1.5	54	2.2	68	57	26
AUG. 17	--	9.3	130	8.0	.5	32	1.3	40	35	15
SEPT. 22	--	19	--	17	2.3	81	3.4	78	109	38

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 20	0.2	0.8	365	323	38	0	508	18.0	100	7.3
NOV. 30	--	--	--	--	--	--	300	19.0	120	--
DEC. 2	.2	1.4	306	269	27	0	442	19.5	160	7.4
DEC. 16	.2	1.2	184	135	20	0	215	14.0	160	6.9
DEC. 31	--	--	--	--	--	--	111	13.0	80	--
JAN. 22	.1	1.4	268	237	30	0	366	16.0	150	7.2
FEB. 23	.2	--	200	143	23	0	240	16.0	180	7.0
MAR. 17	.1	.8	65	54	16	0	64	20.0	50	6.7
MAY 19	.2	2.0	309	267	42	0	432	25.5	180	7.0
JUNE 3	.2	--	443	375	62	0	623	30.0	220	7.1
JULY 28	.1	1.2	220	202	36	0	331	26.5	100	6.2
AUG. 17	.1	.7	148	122	22	0	204	30.5	60	6.9
SEPT. 22	.2	.7	357	309	52	0	510	--	100	6.8

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO ₄) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 20	8.4	2.3	81	--	--	--	--	--	--
NOV. 30	--	--	--	--	--	--	--	--	--
DEC. 2	7.2	2.1	53	--	--	--	--	--	--
DEC. 16	8.8	3.9	49	--	--	--	--	--	--
DEC. 31	--	--	--	--	--	--	--	--	--
JAN. 22	11.0	6.1	45	--	--	--	300	180	220
FEB. 23	9.1	1.2	54	--	--	--	--	310	1400
MAR. 17	8.9	--	60	--	--	--	--	--	--
MAY 19	6.4	3.3	66	--	--	--	--	100	--
JUNE 3	4.2	2.9	67	--	--	--	2600	100	510
JULY 28	6.2	2.6	59	--	--	--	2700	1100	2000
AUG. 17	7.3	2.7	45	--	--	--	4000	80	--
SEPT. 22	7.6	2.4	50	--	--	--	--	--	--

SABINE RIVER BASIN

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08028200 BAYOU ANACOCO NEAR KNIGHT, LA.--Continued

SPECIFIC CONDUCTANCE (MICROHMOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	538	105	378	182	356	110	174	549	519	513	333	328
2	584	107	453	195	368	170	209	575	e480	589	330	326
3	594	90	453	125	410	115	205	590	446	589	291	319
4	600	134	467	195	232	82	316	569	581	395	166	e320
5	595	135	454	103	230	164	304	506	550	395	227	320
6	607	232	453	97	361	146	371	553	579	574	225	e335
7	600	233	429	117	439	148	437	452	431	309	259	e350
8	565	294	493	98	251	214	467	267	621	486	e250	370
9	534	285	499	275	278	220	371	400	681	491	e250	404
10	560	277	501	110	311	225	403	502	581	325	239	e370
11	434	281	438	111	342	222	397	394	511	324	240	e340
12	99	306	499	112	308	183	400	240	541	243	237	305
13	419	162	429	239	107	249	e400	358	543	267	307	124
14	423	86	396	150	124	249	397	306	585	268	200	123
15	404	85	e300	118	171	264	399	250	e590	328	209	340
16	411	110	204	325	199	142	404	432	591	331	205	571
17	413	155	235	373	254	310	e410	375	554	166	199	570
18	439	155	313	356	162	380	e410	442	554	211	201	624
19	516	210	314	342	264	123	e420	474	537	171	263	620
20	567	258	345	345	189	131	e420	467	555	233	262	e605
21	133	260	357	348	264	185	423	484	571	215	250	e590
22	202	279	195	366	172	190	407	515	546	321	251	579
23	111	293	341	395	249	152	444	468	562	373	243	559
24	135	285	348	391	82	316	396	514	590	375	244	614
25	113	265	260	351	80	243	361	360	538	345	e275	610
26	110	268	207	364	215	279	499	477	604	345	e305	636
27	192	241	121	387	50	287	527	479	582	347	332	645
28	140	266	119	377	54	219	e530	564	623	410	335	619
29	820	348	132	447	--	155	537	603	601	e360	266	601
30	810	300	110	388	--	99	551	350	597	314	316	659
31	910	--	111	399	--	205	--	570	--	300	274	--
AVERAGE	438	217	358	264	229	199	400	454	561	352	258	459

e Estimated

COLOR (PLATINUM-COBALT UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	100	140	90	160	--	100	180	160	200	120	120
2	200	60	150	100	120	120	80	200	--	220	110	120
3	320	60	120	80	180	120	100	200	170	220	100	100
4	200	80	120	80	160	140	160	200	170	--	80	30
5	200	60	100	100	120	100	100	200	160	--	160	120
6	240	100	150	100	160	120	120	200	200	--	140	--
7	240	100	120	100	160	120	120	--	--	160	120	--
8	200	120	160	80	120	120	140	--	200	200	--	160
9	200	--	160	140	100	--	120	160	220	200	--	120
10	200	120	150	80	160	40	140	120	160	120	100	--
11	160	120	120	80	200	100	120	200	160	80	100	--
12	120	120	160	70	160	120	120	120	200	120	110	80
13	120	160	160	120	100	100	--	160	200	80	120	40
14	120	160	130	80	100	100	120	160	200	80	100	45
15	140	120	--	80	120	120	160	160	--	80	100	80
16	200	80	100	160	120	600	120	160	200	120	100	160
17	140	80	120	120	120	140	--	160	220	70	100	160
18	100	80	150	160	140	120	--	160	180	45	80	120
19	200	90	120	120	120	120	--	180	160	50	80	120
20	60	100	130	160	160	80	--	160	--	50	80	--
21	160	100	120	120	120	140	160	160	180	55	80	--
22	80	90	80	170	130	120	120	160	200	100	100	120
23	75	90	160	120	120	140	200	180	--	140	120	160
24	120	120	140	170	120	140	140	160	160	120	120	120
25	80	100	120	130	120	120	120	200	180	160	--	120
26	60	80	120	200	200	120	200	--	160	120	--	140
27	90	80	60	160	80	140	200	200	160	--	120	120
28	--	80	80	150	100	80	--	200	200	160	100	200
29	120	120	80	160	--	140	160	200	200	--	100	160
30	80	120	90	160	--	80	160	--	180	100	80	160
31	60	--	80	180	--	100	--	--	--	100	120	--

SABINE RIVER BASIN

08028200 BAYOU ANACOCO NEAR KNIGHT, LA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	18	20	13	13	e 14	18	26	31	33	29	32
2	27	17	20	13	14	13	21	26	e 29	31	28	32
3	26	18	18	10	e 16	14	21	23	28	33	29	32
4	24	18	18	--	16	12	20	24	31	e 32	26	32
5	21	18	16	--	16	15	18	23	28	e 30	27	31
6	21	18	15	--	16	16	18	23	31	29	28	30
7	21	19	17	--	e 14	16	21	22	29	e 30	e 28	30
8	20	17	20	--	12	17	e 20	23	32	28	e 29	30
9	20	e 16	18	--	11	e 16	18	24	30	32	e 30	31
10	23	e 15	16	--	12	16	21	26	32	32	31	e 30
11	25	15	14	--	e 14	15	23	26	33	33	32	e 30
12	23	13	12	--	16	17	22	22	29	31	31	32
13	22	11	12	--	12	20	e 21	26	29	33	32	29
14	20	9	e 12	--	15	21	20	22	28	e 33	31	29
15	20	8	e 11	--	18	e 21	22	26	e 29	33	30	27
16	22	11	11	--	18	21	21	26	29	32	32	29
17	23	9	10	--	e 15	20	e 21	24	29	33	30	30
18	23	10	12	--	13	18	e 22	e 24	30	32	31	26
19	21	11	14	14	11	17	e 23	24	30	e 30	31	25
20	20	15	10	13	12	16	e 24	22	e 29	29	32	e 26
21	20	e 13	80	13	14	18	24	24	29	e 28	32	e 27
22	21	e 11	11	15	16	18	24	24	29	30	32	27
23	20	10	11	16	17	16	26	26	29	29	30	26
24	19	8	10	17	16	16	26	24	32	31	31	e 27
25	20	10	11	18	16	16	26	e 26	32	32	e 30	29
26	22	e 12	11	18	17	18	27	27	32	33	e 29	31
27	20	e 14	12	14	14	17	26	26	30	32	29	30
28	19	e 16	13	14	--	18	26	27	29	29	30	32
29	19	19	13	e 14	--	18	27	27	e 28	e 29	31	29
30	18	19	12	e 14	--	18	26	e 27	28	29	31	29
31	18	--	13	14	--	20	--	27	--	29	31	--
AVERAGE	21	14	16	--	15	17	22	25	30	31	30	29

e Estimated

SABINE RIVER BASIN

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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 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT. 20	--	9.0	140	11	2.3	27	2.6	48	24	24
DEC. 2	--	15	110	9.9	1.3	31	3.3	49	19	22
DEC. 16	--	5.8	100	12	1.9	21	4.0	46	12	25
JAN. 22	--	4.1	20	12	3.9	19	2.1	46	14	24
FEB. 23	--	5.2	120	11	2.6	26	3.1	44	14	24
MAR. 17	--	12	120	9.7	2.4	21	2.5	41	17	21
APR. 7	--	13	100	9.5	1.5	20	2.5	41	13	19
MAY 19	--	15	110	9.6	2.2	28	2.9	52	22	20
JUNE 3	--	3.8	30	12	2.7	19	2.2	43	11	25
JULY 28	--	16	50	12	2.4	30	2.6	60	26	21
AUG. 17	--	5.8	20	10	2.2	26	1.6	46	17	25
SEPT. 22	--	13	130	12	1.9	36	3.2	53	34	31

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEMP- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
OCT. 20	0.1	0.6	134	125	37	0	210	18.0	30	7.1
DEC. 2	.1	.4	150	125	30	0	183	20.0	30	6.8
DEC. 16	.1	.4	118	105	38	0	178	13.0	20	6.7
JAN. 22	.0	1.2	129	103	46	8	198	15.0	10	7.5
FEB. 23	.1	.6	125	109	38	2	182	13.0	80	7.0
MAR. 17	.2	.5	113	106	34	0	162	20.0	60	6.8
APR. 7	.1	.5	112	99	30	0	168	14.0	50	6.7
MAY 19	.1	.6	143	126	33	0	210	25.0	55	6.7
JUNE 3	.1	.4	113	97	41	6	191	25.0	15	6.8
JULY 28	.2	.4	164	141	40	0	240	28.0	50	6.8
AUG. 17	.1	.3	128	111	34	0	205	31.0	20	7.2
SEPT. 22	.1	.5	178	158	38	0	241	24.0	60	6.9

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 20	8.5	0.9	27	--	--	26	--	--	--
DEC. 2	8.3	1.2	39	--	0.21	2	--	--	--
DEC. 16	9.6	1.2	27	--	.21	52	--	--	--
JAN. 22	9.3	.4	14	--	.03	12	--	--	--
FEB. 23	10.0	1.3	27	--	.18	42	--	--	--
MAR. 17	8.7	2.0	78	--	.12	33	--	--	--
APR. 7	9.4	6.6	30	--	.18	85	--	--	--
MAY 19	7.0	4.7	0	--	.25	31	--	--	--
JUNE 3	7.2	1.5	2	--	.03	94	--	--	--
JULY 28	6.9	1.6	17	--	.22	1	--	--	--
AUG. 17	7.5	1.5	32	--	.04	0	--	--	--
SEPT. 22	8.4	2.3	42	--	.10	7	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
PEARL RIVER BASIN										
02490193	PEARL RIVER AT POOL'S BLUFF SILL NEAR BOGALUSA, LA. (LAT 30 42 14 LONG 089 50 44)									
JAN. 20	--	--	--	--	--	--	--	8.5	--	--
MAR. 31	--	--	--	--	--	--	--	15.5	--	--
MAY 20	--	--	--	--	--	--	--	22.5	--	--
YAZOO RIVER BASIN										
07288928	EAGLE LAKE AT EAGLE BEND, MISS. (LAT 32 29 18 LONG 089 59 57)									
JULY 11	0.2	1.6	114	109	84	0	194	--	10	7.2
RED RIVER BASIN										
07348500	RED RIVER AT SHREVEPORT, LA. (LAT 32 31 04 LONG 093 44 33)									
NOV. 17	--	--	--	--	--	--	283	13.0	--	--
DEC. 22	--	--	--	--	--	--	638	14.5	--	--
JAN. 26	--	--	--	--	--	--	--	12.0	--	--
FEB. 24	--	--	--	--	--	--	--	11.0	--	--
MAR. 18	--	--	--	--	--	--	--	15.0	--	--
APR. 7	--	--	--	--	--	--	--	17.0	--	--
MAY 19	--	--	--	--	--	--	--	25.0	--	--
JUNE 15	--	--	--	--	--	--	--	30.0	--	--
JULY 28	--	--	--	--	--	--	--	21.5	--	--
07355440	RED RIVER AT PINEVILLE, LA. (LAT 31 19 37 LONG 092 27 07)									
DEC. 3	--	--	--	--	--	--	663	17.0	--	--
DEC. 17	--	--	--	--	--	--	647	11.0	--	--
FEB. 3	--	--	--	--	--	--	--	9.0	--	--
FEB. 23	--	--	--	--	--	--	--	13.0	--	--
MAR. 17	--	--	--	--	--	--	--	17.0	--	--
APR. 8	--	--	--	--	--	--	--	21.0	--	--
MAY 20	--	--	--	--	--	--	--	24.0	--	--
JUNE 16	--	--	--	--	--	--	--	30.0	--	--
JULY 28	--	--	--	--	--	--	--	23.0	--	--
07355600	RED RIVER AT MONCLA, LA. (LAT 31 12 10 LONG 092 08 30)									
DEC. 2	--	--	--	--	--	--	444	16.5	--	--
DEC. 17	--	--	--	--	--	--	658	11.5	--	--
FEB. 3	--	--	--	--	--	--	--	10.5	--	--
FEB. 23	--	--	--	--	--	--	--	13.0	--	--
MAR. 17	--	--	--	--	--	--	--	16.5	--	--
APR. 8	--	--	--	--	--	--	--	17.5	--	--
MAY 20	--	--	--	--	--	--	--	25.0	--	--
JUNE 17	--	--	--	--	--	--	--	30.0	--	--

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
07288928	EAGLE LAKE AT EAGLE BEND, MISS. (LAT 32 29 18 LONG 089 59 57)									
JULY 11	1.0	7.3	--	23	6.4	5.5	4.5	107	5.0	2.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE		DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
PEARL RIVER BASIN										
02490193 PEARL RIVER AT POOL'S BLUFF SILL NEAR BOGALUSA, LA. (LAT 30 42 14 LONG 089 50 44)										
JAN.	20	11.0	5.5	--	--	--	--	24000	--	1800
MAR.	31	7.9	2.3	--	--	--	--	62000	200	--
MAY	20	6.9	1.6	--	--	--	--	3100	260	540
YAZOO RIVER BASIN										
07288928 EAGLE LAKE AT EAGLE BEND, MISS. (LAT 32 29 18 LONG 089 59 57)										
JULY	11	--	15	--	--	--	--	--	--	--
RED RIVER BASIN										
07348500 RED RIVER AT SHREVEPORT, LA. (LAT 32 31 04 LONG 093 44 33)										
NOV.	17	10.6	1.8	--	--	--	--	12000	2600	--
DEC.	22	10.0	2.9	--	--	--	--	1800	230	230
JAN.	26	11.0	1.3	--	--	--	--	650	270	180
FEB.	24	11.0	2.4	--	--	--	--	2100	280	1100
MAR.	18	9.3	1.6	--	--	--	--	16000	330	5300
APR.	7	10.1	3.6	--	--	--	--	8800	12	--
MAY	19	6.9	.5	--	--	--	--	1100	--	100
JUNE	15	7.7	1.0	--	--	--	--	3900	40	25
JULY	28	6.1	1.1	--	--	--	--	16000	940	6200
07355440 RED RIVER AT PINEVILLE, LA. (LAT 31 19 37 LONG 092 27 07)										
DEC.	3	9.4	1.2	--	--	--	--	7200	44	540
DEC.	17	10.0	1.4	--	--	--	--	6200	350	550
FEB.	3	11.0	2.7	--	--	--	--	2600	88	--
FEB.	23	9.8	2.1	--	--	--	--	5200	290	2000
MAR.	17	9.2	1.0	--	--	--	--	22000	40	1200
APR.	8	9.9	2.8	--	--	--	--	--	--	--
MAY	20	6.0	1.0	--	--	--	--	700	52	550
JUNE	16	7.7	--	--	--	--	--	--	27	47
JULY	28	6.1	1.5	--	--	--	--	5000	130	1100
07355600 RED RIVER AT MONCLA, LA. (LAT 31 12 10 LONG 092 08 30)										
DEC.	2	9.4	3.1	--	--	--	--	64000	640	5600
DEC.	17	10.0	1.6	--	--	--	--	52000	940	5200
FEB.	3	10.0	1.3	--	--	--	--	14000	320	4000
FEB.	23	9.7	1.9	--	--	--	--	8400	600	1400
MAR.	17	9.1	1.7	--	--	--	--	12000	160	1800
APR.	8	9.7	3.7	--	--	--	--	7500	96	390
MAY	20	7.7	1.1	--	--	--	--	5100	360	6300
JUNE	17	7.3	1.2	--	--	--	--	2800	48	27

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SI02) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
RED RIVER BASIN--CONTINUED										
07365000		BAYOU D'ARBONNE NEAR DUBACH, LA.					(LAT 32 40 50 LONG 092 39 10)			
NOV. 19	46	15	20	8.8	1.5	20	3.0	12	9.4	39
MAR. 3	260	7.7	10	5.7	1.7	11	1.2	15	7.6	19
JULY 15	.02	13	10	8.0	3.4	14	1.8	42	6.2	17
07365100		CYPRESS CREEK NEAR UNIONVILLE, LA.					(LAT 32 39 35 LONG 092 35 15)			
DEC. 8	12	18	110	6.7	1.8	23	4.0	58	8.4	14
07367500		CHENIERE CREEK NEAR BAWCOMVILLE, LA.					(LAT 32 27 15 LONG 092 11 25)			
JUNE 15	--	8.5	280	14	2.7	39	1.6	42	18	55
07367700		BOEUF RIVER NEAR ARK.-LA. STATE LINE					(LAT 32 58 25 LONG 091 26 25)			
OCT. 14	2100	2.2	30	24	6.1	17	6.0	86	16	28
NOV. 18	360	7.3	90	27	4.0	9.3	6.0	96	12	13
DEC. 8	54	12	40	39	11	25	6.0	143	27	40
JAN. 21	99	9.3	40	29	8.6	18	4.0	107	22	29
MAR. 9	152	7.2	30	22	0.1	13	4.0	87	13	17
APR. 21	700	11	0	45	14	35	1.7	173	31	50
JUNE 10	150	10	20	45	14	34	3.6	169	24	56
JULY 21	33	13	0	51	17	40	3.3	202	26	67
AUG. 25	--	8.5	50	32	9.7	22	3.9	134	13	35
07368000		BOEUF R. NR. GIRARD, LA.					(LAT 32 28 50 LONG 091 47 55)			
NOV. 16	--	11	90	30	9.0	19	6.8	106	22	34
JAN. 26	--	10	--	27	7.2	12	4.0	100	17	17
MAR. 18	--	7.9	110	15	5.5	10	6.0	67	11	14
MAY 18	--	7.4	80	8.0	2.2	4.0	2.8	28	5.0	3.3
JULY 9	--	13	20	39	11	24	2.8	152	19	34
SEPT. 22	--	18	110	58	19	35	3.2	230	24	58
07370000		BAYOU MACON NR. DELHI, LA.					(LAT 32 27 25 LONG 091 28 30)			
NOV. 16	--	7.7	50	20	5.1	6.6	7.1	79	12	8.2
JAN. 26	--	9.1	80	34	9.5	13	3.4	136	18	17
MAR. 18	--	10	40	26	8.5	11	5.3	112	15	11
MAY 18	--	12	80	16	2.4	8.5	4.7	65	8.8	6.4
JULY 9	--	13	10	30	9.7	13	2.6	136	13	14
SEPT. 22	--	17	110	58	18	28	3.1	254	22	35
DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO4) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)	
07367500		CHENIERE CREEK NEAR BAWCOMVILLE, LA.					(LAT 32 27 15 LONG 092 11 25)			
JUNE 15	--	--	19	--	0.19	--	--	--	--	
07368000		BOEUF R. NR. GIRARD, LA.					(LAT 32 28 50 LONG 091 47 55)			
NOV. 16	9.1	3.0	21	--	--	--	--	--	--	
JAN. 26	8.9	2.4	9	--	--	--	--	--	--	
MAR. 18	7.1	2.3	78	--	--	--	--	--	--	
MAY 18	4.9	2.0	23	--	--	--	--	--	--	
JULY 9	3.8	.6	10	--	--	--	--	--	--	
SEPT. 22	6.4	1.8	23	--	--	--	--	--	--	
07370000		BAYOU MACON NR. DELHI, LA.					(LAT 32 27 25 LONG 091 28 30)			
NOV. 16	8.0	5.1	37	--	--	--	--	--	--	
JAN. 26	8.7	1.9	0	--	--	--	--	--	--	
MAR. 18	8.4	1.4	72	--	--	--	--	--	--	
MAY 18	5.2	2.0	5	--	--	--	--	--	--	
JULY 9	4.4	.6	10	--	--	--	--	--	--	
SEPT. 22	6.7	1.1	17	--	--	--	--	--	--	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEMP- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
RED RIVER BASIN--CONTINUED										
07365000	BAYOU D'ARBOONNE NEAR DUBACH, LA.					(LAT 32 40 50 LONG 092 39 10)				
NOV. 19	0.0	0.3	115	103	28	18	177	10.0	10	6.4
MAR. 3	.1	.1	91	61	21	9	109	9.0	15	6.4
JULY 15	.1	.4	85	85	34	0	134	26.0	5	6.2
07365100	CYPRESS CREEK NEAR UNIONVILLE, LA.					(LAT 32 39 35 LONG 092 35 15)				
DEC. 8	0.1	0.4	114	--	24	0	177	10.0	10	7.2
07367500	CHENIERE CREEK NEAR BAWCOMVILLE, LA.					(LAT 32 27 15 LONG 092 11 25)				
JUNE 15	0.2	1.5	190	162	46	12	304	--	120	6.9
07367700	BOEUF RIVER NEAR ARK.-LA. STATE LINE					(LAT 32 58 25 LONG 091 26 25)				
OCT. 14	0.1	2.9	151	144	85	14	273	20.0	35	7.0
NOV. 18	.2	1.0	159	126	84	5	222	10.0	60	7.0
DEC. 8	.2	1.4	250	232	144	27	417	12.0	30	7.5
JAN. 21	.2	1.3	229	174	108	20	309	7.0	40	7.4
MAR. 9	.2	1.0	151	126	80	9	223	18.0	60	7.0
APR. 21	.2	1.4	283	274	170	28	490	22.0	10	6.3
JUNE 10	.2	.1	321	270	166	29	495	20.0	20	7.3
JULY 21	.2	.2	336	318	197	31	591	28.0	10	7.4
AUG. 25	.2	.2	205	190	120	10	352	28.5	30	7.3
07368000	BOEUF R. NR. GIRARD, LA.					(LAT 32 28 50 LONG 091 47 55)				
NOV. 16	0.2	1.2	215	185	112	25	330	11.0	40	7.3
JAN. 26	.1	1.8	146	145	97	15	249	11.0	80	7.2
MAR. 18	.4	1.5	130	104	60	12	170	16.0	80	7.0
MAY 18	.2	7.3	71	54	29	6	82	22.0	100	6.8
JULY 9	.2	1.3	230	219	142	17	391	28.0	20	7.3
SEPT. 22	.2	.5	349	329	222	33	571	25.0	15	6.9
07370000	BAYOU MACON NR. DELHI, LA.					(LAT 32 27 25 LONG 091 28 30)				
NOV. 16	0.2	1.9	145	108	71	6	184	10.5	60	7.0
JAN. 26	.2	2.2	212	173	124	12	300	10.5	80	7.6
MAR. 18	.4	2.1	147	150	100	8	236	16.5	40	7.3
MAY 18	.2	2.1	108	95	50	0	148	22.0	100	6.7
JULY 9	.2	1.6	167	164	115	3	278	29.0	40	6.3
SEPT. 22	.2	.5	326	307	217	9	520	24.0	15	7.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLORIDE (CL) (MG/L)
RED RIVER BASIN--CONTINUED										
07373267		BLACK RIVER AT JONESVILLE, LA.					(LAT 31 37 25 LONG 091 48 45)			
DEC. 1	9730	9.1	220	14	3.2	40	3.7	38	13	64
JAN. 25	19700	7.8	90	13	2.6	22	2.0	36	11	35
MAR. 8	44800	7.2	80	11	1.6	14	3.6	38	8.0	21
APR. 13	22800	8.1	170	13	3.5	20	2.0	46	11	32
MAY 19	62600	7.0	110	11	3.5	21	3.0	33	7.0	37
JULY 8	7630	12	40	26	7.1	46	1.9	110	16	58
SEPT. 21	11000	10	--	17	4.8	21	3.2	69	10	31

MISSISSIPPI RIVER DELTA

07375500		TANGIPAHOA RIVER AT ROBERT, LA.					(LAT 30 30 23 LONG 090 21 42)			
DEC. 22	1460	12	190	3.3	0.7	6.1	2.9	16	3.6	9.1
JAN. 20	--	13	180	3.7	1.9	5.1	1.1	16	4.0	7.0
MAR. 31	--	9.4	210	3.4	.4	4.5	2.6	15	2.0	6.0
MAY 26	--	13	100	2.8	1.2	6.0	1.7	17	2.8	5.9
JUNE 23	--	12	240	2.4	1.0	5.7	.9	15	3.2	6.5
07378500		AMITE RIVER NR. DENHAM SPRINGS, LA.					(LAT 30 27 20 LONG 090 59 25)			
OCT. 16	1570	10	30	2.6	0.9	2.0	4.1	11	1.0	4.0
NOV. 10	526	13	0	3.2	1.0	6.0	2.6	22	.0	6.5
DEC. 14	574	11	60	3.1	1.0	4.9	3.0	19	1.8	7.2
FEB. 17	1590	11	90	3.0	1.1	4.1	1.7	12	4.0	5.3
MAR. 15	1040	13	0	3.0	1.1	5.7	1.4	20	2.2	6.0
APR. 19	522	11	10	2.6	1.3	6.2	1.3	19	2.8	6.4
JUNE 11	511	11	0	2.7	.8	5.7	1.2	18	1.4	5.3
JULY 20	378	13	30	2.2	1.1	6.0	1.0	18	.6	5.8
AUG. 22	423	7.0	40	2.9	.7	6.2	2.0	18	1.6	5.9
07380312		LAKE CATAOUCHE NR. WESTWEGO, LA.					(LAT 29 51 22 LONG 090 13 45)			
MAR. 17	--	1.9	170	46	34	340	13	115	68	596
07380323		LAKE SALVADOR NR. BARATARIA, LA.					(LAT 29 42 20 LONG 090 13 26)			
MAR. 17	--	7.3	90	41	27	284	11	108	60	488
07385500		BAYOU TECHE AT ARNAUDVILLE, LA.					(LAT 30 23 50 LONG 091 55 50)			
OCT. 13	1370	5.8	70	7.4	2.3	5.3	4.5	35	5.4	12
JAN. 11	833	13	170	11	2.6	6.8	2.3	48	4.8	7.1
FEB. 16	1060	7.0	170	9.6	3.2	5.7	2.6	43	6.2	6.5
MAR. 24	1100	6.5	290	8.1	2.4	5.2	2.6	37	6.8	5.0
APR. 26	--	8.8	0	23	9.1	12	1.9	118	8.0	14
JUNE 8	698	9.2	40	14	4.1	6.3	1.7	67	4.2	6.2
JULY 19	195	11	0	21	6.9	12	2.1	107	7.4	11
AUG. 30	343	14	200	20	6.3	9.4	2.1	98	4.4	9.7

DATE	DISSOLVED OXYGEN (DO) (MG/L)	BIO- CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	CHEMICAL OXYGEN DEMAND (COD) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	PHOSPHATE (PO ₄) (MG/L)	SUSPENDED SOLIDS (MG/L)	COLIFORM (COLONIES PER 100 ML)	STREP- TOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
07375500		TANGIPAHOA RIVER AT ROBERT, LA.					(LAT 30 30 23 LONG 090 21 42)		
DEC. 22	--	--	--	--	--	--	--	--	--
JAN. 20	11.0	3.1	0	--	--	--	--	--	--
MAR. 31	8.8	2.0	17	--	--	--	--	--	--
MAY 26	7.9	1.6	0	--	--	--	--	--	--
JUNE 23	7.5	1.3	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CON- STITUENTS) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CAR- BONATE HARDNESS (MG/L)	SPECIFIC CON- DUCTANCE (MICRO- MHOS)	TEM- PERATURE (DEG C)	COLOR (PLATINUM- COBALT UNITS)	PH (UNITS)
RED RIVER BASIN--CONTINUED										
07373267	BLACK RIVER AT JONESVILLE, LA.					(LAT 31 37 25 LONG 091 48 45)				
DEC. 1	0.1	1.9	212	168	48	17	319	15.0	80	6.8
JAN. 25	.1	.8	126	112	43	13	208	12.0	30	6.4
MAR. 8	.2	.4	107	86	34	3	152	13.0	50	6.6
APR. 13	.1	.7	136	113	47	9	213	18.0	40	6.9
MAY 19	.1	1.6	134	107	42	15	207	26.0	50	6.6
JULY 8	.2	2.7	236	224	94	4	402	29.0	50	6.5
SEPT. 21	.1	1.3	185	131	62	4	245	24.0	80	7.0
MISSISSIPPI RIVER DELTA										
07375500	TANGIPAHOA RIVER AT ROBERT, LA.					(LAT 30 30 23 LONG 090 21 42)				
DEC. 22	0.0	1.1	55	47	11	0	65	17.0	30	6.4
JAN. 20	.0	.6	54	44	17	4	54	10.0	15	6.6
MAR. 31	.0	1.6	65	37	10	0	54	17.5	60	6.4
MAY 26	.0	.1	51	42	12	0	59	23.0	15	6.4
JUNE 23	.0	.4	46	39	10	0	54	25.5	40	6.6
07378500	AMITE RIVER NR. DENHAM SPRINGS, LA.					(LAT 30 27 20 LONG 090 59 25)				
OCT. 16	0.0	2.0	49	32	10	1	44	17.5	40	6.1
NOV. 10	.0	.2	47	44	12	0	62	16.0	0	6.1
DEC. 14	.0	.4	48	41	12	0	58	12.0	30	6.3
FEB. 17	.0	.8	55	37	12	2	48	14.0	30	6.3
MAR. 15	.1	.2	43	43	12	0	55	21.0	5	6.4
APR. 19	.0	.2	48	41	12	0	56	23.0	5	6.3
JUNE 11	.1	.1	38	37	10	0	47	28.5	5	6.0
JULY 20	.0	.1	37	39	10	0	46	29.0	10	6.0
AUG. 22	.0	.1	44	35	10	0	57	30.0	20	6.0
07380312	LAKE CATAOUATCHE NR. WESTWEGO, LA.					(LAT 29 51 22 LONG 090 13 45)				
MAR. 17	0.3	0.2	1290	1160	254	160	2240	--	40	7.2
07380323	LAKE SALVADOR NR. BARATARIA, LA.					(LAT 29 42 20 LONG 090 13 26)				
MAR. 17	0.3	0.3	1070	972	215	126	1880	--	45	7.2
07385500	BAYOU TECHE AT ARNAUDVILLE, LA.					(LAT 30 23 50 LONG 091 55 50)				
OCT. 13	0.1	1.1	77	55	28	0	91	20.5	50	6.4
JAN. 11	.1	.4	92	72	38	0	117	--	50	6.6
FEB. 16	.1	.5	94	62	37	2	106	20.0	60	6.4
MAR. 24	.2	.5	100	55	30	0	87	14.0	80	6.5
APR. 26	.1	1.7	145	137	95	0	244	24.5	20	7.8
JUNE 8	.1	.4	79	79	52	0	132	27.5	45	7.5
JULY 19	.2	.7	136	125	81	0	219	31.0	20	7.8
AUG. 30	.1	.6	--	115	76	0	194	28.5	70	7.7

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CONCENTRATIONS (mg/l)

DATE OF COLLECTION	CONCENTRATION	DATE OF COLLECTION	CONCENTRATION
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RED RIVER BASIN

07373000 BIG CREEK AT POLLOCK

DEC. 29, 1970.....	21	MAY 3.....	12
MAR. 1, 1971.....	19	AUG 5.....	21
APR. 6.....	10	SEPT 21.....	10

MISSISSIPPI RIVER DELTA

07380400 BAYOU LAFOURCHE AT DONALDSONVILLE

OCT. 7, 1970.....	238	MAR. 24.....	170
NOV. 10.....	85	APR. 22.....	135
DEC. 23.....	90	JUNE 7.....	146
FEB. 16, 1971.....	221	AUG. 27.....	48

07380450 BAYOU LAFOURCHE AT BELLE ROSE

OCT. 7, 1970.....	120	MAR. 24.....	138
NOV. 10.....	136	APR. 22.....	40
DEC. 23.....	66	JUNE 7.....	115
FEB. 16, 1971.....	95	AUG. 27.....	91

07380500 BAYOU LAFOURCHE AT NAPOLEONVILLE

OCT. 7, 1970.....	69	MAR. 24.....	99
NOV. 10.....	57	APR. 22.....	46
DEC. 23.....	33	JUNE 7.....	70
FEB. 16, 1971.....	75	AUG. 27.....	66

07380800 BAYOU LAFOURCHE AT LABADIEVILLE

OCT. 7, 1970.....	52	MAR. 24.....	100
NOV. 10.....	59	APR. 22.....	40
DEC. 23.....	26	JUNE 7.....	51
FEB. 16, 1971.....	61	AUG. 27.....	60

07381000 BAYOU LAFOURCHE AT THIBODAU

OCT. 7, 1970.....	49	MAR. 24.....	84
NOV. 10.....	34	APR. 22.....	39
DEC. 23.....	25	JUNE 7.....	56
FEB. 16, 1971.....	39	AUG. 27.....	26

0738110 BAYOU LAFOURCHE AT RACELAND

OCT. 7, 1970.....	140	MAR. 24.....	360
NOV. 10.....	139	APR. 22.....	215
DEC. 23.....	260	*JUNE 7.....	59
FEB. 16, 1971.....	143	*AUG. 27.....	28

* Sampling site moved to bridge below wier at Thibodaux.

TEMPERATURES OF STREAMS IN LOUISIANA DURING 1971 WATER YEAR

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DATE OF COLLECTION	TEMPERATURE	DATE OF COLLECTION	TEMPERATURE
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PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA

NOV. 12, 1970.....	16	AUG. 25, 1971.....	27
DEC. 17.....	11.5		

02490105 BOGUE LUSA CREEK AT STATE HIGHWAY 439, AT BOGALUSA, LA.

OCT. 6, 1970.....	22	MAR. 15.....	19
NOV. 17.....	13	JUNE 10.....	25
DEC. 21.....	15.5	JULY 13.....	28
FEB. 16, 1971.....	11	AUG. 26.....	25

02492000 BOGUE CHITTO NEAR BUSH

NOV. 12, 1970.....	14.5	MAY 19.....	23
DEC. 17.....	12	JUNE 9.....	26
FEB. 10, 1971.....	8	JULY 16.....	30
MAR. 18.....	17	SEPT. 7.....	25.5

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON

APR. 23, 1971.....	23.2	SEPT. 28.....	24.8
JULY 21.....	27.0		

07344450 PAW PAW BAYOU NEAR GREENWOOD

NOV. 3, 1970.....	11	MAR. 2.....	14
DEC. 16.....	11	APR. 19.....	19.2
JAN. 21, 1971.....	7	AUG. 12.....	24

07347500 BLACK BAYOU NEAR GILLIAM

OCT. 22, 1970.....	19	APR. 20.....	21.5
NOV. 18.....	12	JUNE 2.....	28.8
DEC. 17.....	14	JULY 20.....	26
JAN. 21, 1971.....	7	AUG. 12.....	27
MAR. 3.....	10		

07348000 TWELVEMILE BAYOU NEAR DIXIE

OCT. 8, 1970.....	25	JUNE 2.....	27.0
OCT. 22.....	18	JULY 20.....	22.0
NOV. 18.....	8	JULY 29.....	28.2
DEC. 17.....	10	AUG. 5.....	25.0
JAN. 21, 1971.....	17	AUG. 12.....	24.0
MAR. 2.....	13	SEPT. 21.....	18
APR. 20.....	20.0	SEPT. 30.....	26.5

07348700 BAYOU DORCHEAT NEAR SPRINGHILL

OCT. 13, 1970.....	18	APR. 21.....	17.7
NOV. 18.....	8	JUNE 3.....	24.2
DEC. 15.....	14	JULY 20.....	27.0
JAN. 20, 1971.....	5	AUG. 25.....	27
MAR. 4.....	13	SEPT. 15.....	27.2

07348800 FLAT LICK BAYOU NEAR LETON

OCT. 14, 1970.....	19	APR. 21.....	20.0
NOV. 16.....	8	JUNE 3.....	23.5
JAN. 26, 1971.....	11	AUG. 25.....	27
MAR. 5.....	8	SEPT. 30.....	22.5

07349000 BAYOU DORCHEAT NEAR MINDEN

OCT. 14, 1970.....	19	MAR. 2.....	14
OCT. 21.....	17	MAR. 5.....	10
NOV. 17.....	8	APR. 19.....	21.0
JAN. 25, 1971.....	12	JUNE 4.....	28.0
FEB. 3.....	7	JULY 20.....	28.0
FEB. 11.....	6	AUG. 19.....	27
FEB. 22.....	12	SEPT. 21.....	20
FEB. 24.....	9	SEPT. 30.....	25

DATE OF COLLECTION	TEMPERATURE	DATE OF COLLECTION	TEMPERATURE
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RED RIVER BASIN--Continued

07349500 BODCAU BAYOU NEAR SAREPTA

OCT. 13, 1970.....	18	JUNE 3.....	24.0
NOV. 18.....	20	JULY 20.....	29.0
JAN. 25, 1971.....	12	AUG. 26.....	27
MAR. 4.....	12	SEPT. 30.....	25.0
APR. 21.....	18.0		

07349800 CYPRESS BAYOU NEAR BENTON

NOV. 17, 1970.....	8	JUNE 3.....	22.0
JAN. 25, 1971.....	12	AUG. 26.....	24
MAR. 4.....	7	SEPT. 30.....	24.5
APR. 19.....	19.5		

07351000 BOGGY BAYOU NEAR KEITHVILLE

NOV. 17, 1970.....	9	MAR. 24.....	10
DEC. 16.....	12	MAY 4.....	6
JAN. 22, 1971.....	10	JUNE 1.....	24.1
MAR. 3.....	13	AUG. 11.....	26

07352000 SALINE BAYOU NEAR LUCKY

DEC. 16, 1970.....	9	JULY 19.....	24.1
JAN. 25, 1971.....	20	AUG. 20.....	24
MAR. 17.....	20	SEPT. 22.....	19.8
APR. 26.....	17.8	SEPT. 27.....	21.5
JUNE 10.....	21.6		

07352800 GRAND BAYOU NEAR COUSHATTA

DEC. 16, 1970.....	10	MAY 3.....	16.5
JAN. 22, 1971.....	10	JUNE 1.....	20.8
MAR. 17.....	15	AUG. 11.....	23

07353000 SALINE BAYOU NEAR CLARENCE

OCT. 23, 1970.....	22	JUNE 23.....	24
JAN. 13, 1971.....	14	JULY 29.....	26
FEB. 25.....	12	SEPT. 2.....	26
MAY 5.....	21		

07354000 LITTLE SANDY CREEK AT KISATCHIE

OCT. 8, 1970.....	22	MAY 14.....	25
NOV. 16.....	8	JUNE 23.....	28
JAN. 12, 1971.....	9	JULY 26.....	32
MAR. 25.....	13	AUG. 31.....	31
MAY 12.....	19		

07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

OCT. 1, 1970.....	22	MAY 27.....	23.9
NOV. 20.....	11	AUG. 23.....	28.5
JAN. 6, 1971.....	7	SEPT. 17.....	28.0
FEB. 17.....	10	SEPT. 24.....	25.0
MAR. 31.....	22		

07364200 BAYOU BARTHOLOMEW NEAR JONES

OCT. 8, 1970.....	23	JUNE 10.....	19
DEC. 1.....	12	JULY 22.....	28
DEC. 8.....	10	AUG. 26.....	29.5
JAN. 28, 1971.....	6	SEPT. 22.....	23
MAR. 16.....	10	SEPT. 28.....	24
APR. 22.....	22		

07364300 CHEMIN-A-HAUT BAYOU NEAR BEEKMAN

OCT. 8, 1970.....	24	APR. 22.....	21
DEC. 9.....	9	JUNE 9.....	20
MAR. 16, 1971.....	14	AUG. 24.....	28.2
MAR. 17.....	15		

TEMPERATURES OF STREAMS IN LOUISIANA DURING 1971 WATER YEAR

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DATE OF COLLECTION	TEMPERATURE	DATE OF COLLECTION	TEMPERATURE
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RED RIVER BASIN--Continued

07364700 BAYOU DE LOUTRE NEAR LARAN

OCT. 15, 1970.....	18	APR. 13.....	20
NOV. 16.....	7	JUNE 1.....	19
DEC. 7.....	14	JULY 15.....	36
JAN. 19, 1971.....	6	AUG. 12.....	27
MAR. 24.....	14	SEPT. 29.....	24.0

07366200 LITTLE CORNEY BAYOU NEAR LILLIE

OCT. 14, 1970.....	18	MAR. 24.....	13
NOV. 19.....	9	APR. 13.....	19
JAN. 25.....	6.0	JUNE 1.....	24

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

DEC. 8, 1970.....	12	JUNE 10.....	20
JAN. 21, 1971.....	7	JULY 21.....	28
MAR. 9.....	18		

07368000 BOEUF RIVER NEAR GIRARD

OCT. 1, 1970.....	24	APR. 20, 1971.....	21
NOV. 9.....	16	JUNE 3.....	21
NOV. 17.....	10	AUG. 18.....	29.0
DEC. 7.....	12		

07368500 BIG COLEWA BAYOU NEAR OAK GROVE

DEC. 9, 1970.....		MAR. 15, 1971.....	17
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07369000 BAYOU LAFOURCHE NEAR CREW LAKE

OCT. 2, 1970.....	24	FEB. 23.....	8
OCT. 22.....	18	APR. 12.....	19
NOV. 16.....	10	JUNE 3.....	19
NOV. 17.....	10	JULY 19.....	28
DEC. 7.....	11	AUG. 18.....	27.5
JAN. 19, 1971.....	7	SEPT. 29.....	24

07369500 TENSAS RIVER AT TENDAL

OCT. 1, 1970.....	24	APR. 7.....	16
OCT. 12.....	19	APR. 21.....	23
OCT. 15.....	19	MAY 3.....	21
OCT. 22.....	17	MAY 11.....	21
NOV. 9.....	15	MAY 14.....	20.2
DEC. 8.....	11	JUNE 15.....	27.8
FEB. 10, 1971.....	8	AUG. 19.....	29.6
MAR. 1.....	15	AUG. 25.....	31.0
MAR. 9.....	16	SEPT. 23.....	25

073697 BAYOU MACON NEAR KILBOURNE

NOV. 18, 1970.....	10	JULY 21.....	27
DEC. 8.....	10	AUG. 25.....	27.0
JAN. 21, 1971.....	7	SEPT. 28.....	26

07370000 BAYOU MACON NEAR DELHI

OCT. 15, 1970.....	19	APR. 21, 1971.....	21
NOV. 18.....	10	JUNE 4.....	20
DEC. 7.....	14	AUG. 19.....	29.8

07372000 DUGDEMONA RIVER NEAR WINNFIELD

OCT. 19, 1970.....	17	MAR. 19.....	14
DEC. 1.....	15	JUNE 11.....	24.2
DEC. 14.....	7	JULY 15.....	28.2
JAN. 28, 1971.....	12	AUG. 20.....	20

DATE OF COLLECTION	TEMPERATURE	DATE OF COLLECTION	TEMPERATURE
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RED RIVER BASIN--Continued

07372200 LITTLE RIVER NEAR ROCHELLE

OCT. 5, 1970.....	25	MAY 4.....	21
FEB. 1, 1971.....	11	MAY 17.....	20
FEB. 24.....	11	JUNE 28.....	23
MAR. 4.....	13	JULY 27.....	27
MAR. 10.....	14	AUG. 31.....	27

07373000 BIG CREEK AT POLLOCK

OCT. 5, 1970.....	19	APR. 6.....	12
OCT. 12.....	21	MAY 3.....	17
NOV. 20.....	19	JUNE 25.....	24
JAN. 4, 1971.....	12	JULY 27.....	24
FEB. 22.....	13	AUG. 30.....	23
MAR. 3.....	10	SEPT. 10.....	23

MISSISSIPPI RIVER DELTA

07375000 TCHEFUNCTA RIVER NEAR FOLSOM

OCT. 9, 1970.....	20	MAR. 23.....	15
NOV. 13.....	14	JULY 16.....	20.5
DEC. 14.....	12	AUG. 30.....	22.5
FEB. 22, 1971.....	16		

07375500 TANGIPAHOA RIVER AT ROBERT

NOV. 10, 1970.....	17	APR. 26.....	20
DEC. 18.....	14	JULY 20.....	29
FEB. 10, 1971.....	7	AUG. 30.....	26
MAR. 18.....	17		

07376000 TICKFAW RIVER AT HOLDEN

OCT. 7, 1970.....	24	APR. 19.....	21
NOV. 1.....	14	JUNE 11.....	26.1
DEC. 22.....	15	JULY 20.....	28.5
FEB. 17.....	13	AUG. 23.....	28
MAR. 15.....	19		

07376500 NATALBANY RIVER AT BAPTIST

OCT. 7, 1970.....	24	APR. 19.....	23.5
NOV. 13.....	14	JUNE 7.....	25.5
DEC. 18.....	13	JULY 20.....	31
FEB. 17, 1971.....	14	AUG. 30.....	24
MAR. 15.....	21		

07377000 AMITE RIVER NEAR DARLINGTON

OCT. 8, 1970.....	23	MAR. 23.....	15.5
NOV. 16.....	12	APR. 20.....	23
DEC. 21.....	15	JUNE 10.....	26
FEB. 16, 1971.....	12	JULY 22.....	26
FEB. 19.....	16	AUG. 27.....	26

07377500 COMITE RIVER NEAR OLIVE BRANCH

NOV. 19, 1970.....	13	FEB. 26.....	17.0
DEC. 21.....	14.5	MAR. 2.....	17.0
FEB. 18, 1971.....	15.5	MAR. 3.....	14.0
FEB. 23.....	14.5	MAR. 29.....	17.0
FEB. 24.....	12.5	JUNE 3.....	24
FEB. 25.....	13.5	JULY 14.....	27.5

07378000 COMITE RIVER NEAR COMITE

NOV. 19, 1970.....	13	MAR. 16.....	22.0
DEC. 8.....	11	JUNE 1.....	30
FEB. 22, 1971.....	12	JULY 15.....	34.5
MAR. 3.....	13	AUG. 23.....	33.5

DATE OF COLLECTION	TEMPERATURE	DATE OF COLLECTION	TEMPERATURE
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MISSISSIPPI RIVER DELTA--Continued

07378500 AMITE RIVER NEAR DENHAM SPRINGS

OCT. 16, 1970.....	17.5	MAR. 15.....	21
NOV. 10.....	16	APR. 19.....	23
DEC. 14.....	12	JUNE 11.....	28.5
JAN. 4, 1971.....	11.5	JULY 20.....	29
FEB. 17.....	14	AUG. 22.....	30.1

07380400 BAYOU LAFOURCHIE AT DONALDSONVILLE

APR. 22, 1971.....	17	AUG. 27.....	29
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07381800 SPRING CREEK NEAR GLENMORA

OCT. 8, 1970.....	20	MAY 18.....	20
NOV. 17.....	11	JUNE 16.....	23
JAN. 5, 1971.....	7	AUG. 2.....	24
FEB. 24.....	14	SEPT. 3.....	21
MAR. 30.....	16		

07382000 BAYOU COCODRIE NEAR CLEARWATER

OCT. 7, 1970.....	22	JUNE 17.....	27
FEB. 26, 1971.....	12	JULY 28.....	26

07382500 BAYOU COURTABLEAU AT WASHINGTON

OCT. 13, 1970.....	22.0	JUNE 8.....	27
JAN. 6, 1971.....	9.9	JULY 19.....	30
MAR. 24.....	15	AUG. 30.....	28.5
APR. 26.....	23.5		

07383900 BAYOU DES GLAISIES DIVERSION CHANNEL AT MOREAUVILLE

OCT. 6, 1970.....	22	MAY 10.....	22
JAN. 11, 1971.....	18	JUNE 17.....	29
MAR. 5.....	13	JULY 26.....	26
APR. 9.....	18	AUG. 30.....	26

07385500 BAYOU TECHE AT ARNAUDVILLE

OCT. 13, 1970.....	20.5	APR. 26.....	24.5
JAN. 11, 1971.....	8.5	JUNE 8.....	27.5
FEB. 16.....	11.5	JULY 19.....	31
MAR. 24.....	14	AUG. 30.....	28.5

MERMENTAU RIVER BASIN

08010000 BAYOU DES CANNES NEAR EUNICE

OCT. 14, 1970.....	21.5	MAR. 24.....	15
OCT. 16.....	21.5	APR. 27.....	25
NOV. 16.....	11	JULY 19.....	28
JAN. 10, 1971.....	8.5		

08011500 BOGGY BAYOU NEAR PINE PRAIRIE

OCT. 7, 1970.....	23	MAR. 31.....	18
OCT. 13.....	20	APR. 9.....	12
DEC. 14.....	14	MAY 20.....	24
DEC. 18.....	22	JUNE 30.....	23
JAN. 6, 1971.....	6	JULY 28.....	27
FEB. 25.....	14	SEPT. 7.....	25

08012000 BAYOU NEPIQUE NEAR BASILE

OCT. 7, 1970.....	24	APR. 26.....	24
NOV. 16.....	10.5	JUNE 8.....	25
JAN. 9, 1971.....	5	JULY 19.....	27.0
MAR. 24.....	20	SEPT. 3.....	29.5

DATE OF COLLECTION	TEMPERATURE	DATE OF COLLECTION	TEMPERATURE
CALCASIEU RIVER BASIN			
08013000 CALCASIEU RIVER NEAR GLENMORA			
OCT. 8, 1970.....	21	JUNE 16.....	24.0
FEB. 1, 1971.....	12	AUG. 2.....	24
APR. 7.....	20	SEPT. 7.....	24
MAY 18.....	21.0		
08013500 CALCASIEU RIVER NEAR OBERLIN			
OCT. 15, 1970.....	23	MAY 24.....	24
OCT. 26.....	26	JUNE 25.....	28
DEC. 28.....	15	AUG. 25.....	28
JAN. 25, 1971.....	16	SEPT. 24.....	26
MAR. 25.....	16	SEPT. 27.....	22
APR. 27.....	22	SEPT. 30.....	24
08014500 WHISKY CHITTO CREEK NEAR OBERLIN			
OCT. 8, 1970.....	25	JUNE 15.....	24
FEB. 16, 1971.....	20	JULY 26.....	28
MAR. 24.....	18	AUG. 30.....	22
MAY 6.....	21		
08014800 BUNDICK CREEK NEAR DE RIDDER			
OCT. 5, 1970.....	27	MAY 7.....	19
OCT. 14.....	23	JUNE 14.....	25
NOV. 18.....	11	JULY 27.....	23
FEB. 23, 1971.....	23	SEPT. 1.....	23
MAR. 26.....	13		
08015500 CALCASIEU RIVER NEAR KINDER			
OCT. 8, 1970.....	24	MAY 6.....	21
OCT. 22.....	27	JUNE 15.....	28
FEB. 17, 1971.....	20	JULY 27.....	25
MAR. 24.....	16	AUG. 30.....	23
08016400 BECKWITH CREEK NEAR DE QUINCY			
OCT. 7, 1970.....	26	MAY 5.....	20
NOV. 19.....	12	JUNE 15.....	28
JAN. 6, 1971.....	6	JULY 29.....	25
FEB. 24.....	20	AUG. 31.....	23
MAR. 30.....	16		
08016800 BEAR HEAD CREEK NEAR STARKS			
OCT. 7, 1970.....	27	MAY 5.....	21
NOV. 17.....	13	JUNE 17.....	24
JAN. 6, 1971.....	6	AUG. 31.....	23
FEB. 24.....	20		
SABINE RIVER BASIN			
08023000 BAYOU CASTOR NEAR LOGANSPOUT			
OCT. 6, 1970.....	22	MAR. 23.....	13
NOV. 17.....	8	MAY 4.....	18
JAN. 6, 1971.....	1	MAY 13.....	19
JAN. 29.....	9	JUNE 24.....	25
FEB. 16.....	11	SEPT. 1.....	24
08025500 BAYOU TORO NEAR TORO			
OCT. 7, 1970.....	21	APR. 6.....	14
NOV. 18.....	10	MAY 12.....	19
JAN. 29, 1971.....	12	JUNE 22.....	25
FEB. 17.....	14	JULY 27.....	25
MAR. 24.....	12	SEPT. 2.....	25

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SABINE RIVER BASIN--Continued

08028000 BAYOU ANACOCO NEAR ROSEPINE

OCT. 6, 1970.....	25	MAY 4.....	18
NOV. 18.....	10	JUNE 16.....	27
JAN. 12, 1971.....	11	JULY 28.....	25
FEB. 23.....	11	SEPT. 1.....	21
APR. 14.....	17		

08028200 BAYOU ANACOCO NEAR KNIGHT

OCT. 6, 1970.....	28	JUNE 16.....	28
NOV. 18.....	12	JULY 28.....	26
JAN. 12, 1971.....	13	SEPT. 1.....	22
MAY 4.....	22		

08028700 HOOSIER CREEK NEAR MERRYVILLE

OCT. 6, 1970.....	24	MAY 4.....	18
NOV. 17.....	12	JUNE 16.....	24
JAN. 6, 1971.....	6	JULY 28.....	23
FEB. 23.....	12	AUG. 31.....	21
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