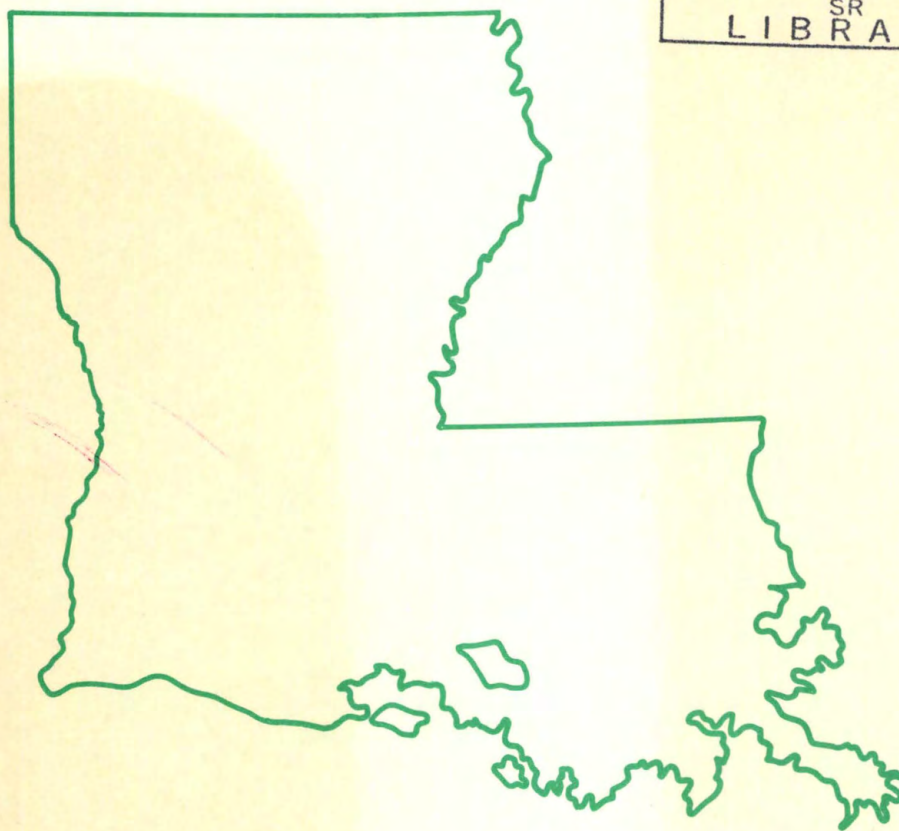
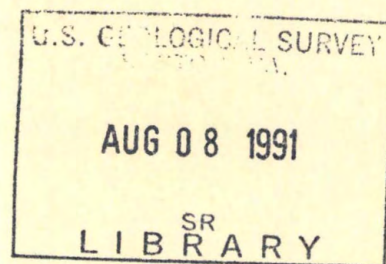


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Water Resources Data Louisiana Water Year 1990



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-90-1
Prepared in cooperation with the Louisiana
Department of Transportation and Development
and with other State and Federal agencies

CALENDAR FOR WATER YEAR 1990

1989

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

1990

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

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

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



Water Resources Data Louisiana

Water Year 1990

by G.J. Arcement, L.J. Dantin, C.R. Garrison, and W.M. Lovelace



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-90-1

Prepared in cooperation with the Louisiana
Department of Transportation and Development
and with other State and Federal agencies

U.S. DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Louisiana write to:
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Baton Rouge, LA 70896

PREFACE

This volume of the annual hydrologic data report of Louisiana is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, most of the data were collected, computed, and processed from area field offices. The following individuals supervised the collection, processing, and tabulation of the data:

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FOR WHICH RECORDS ARE PUBLISHED

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INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Louisiana each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Louisiana."

This report includes records on both surface and ground water in the State. Specifically, it contains: (1) Discharge records for 60 streamflow-gaging stations, stage only for 13 gaging stations, for 98 partial-record or miscellaneous streamflow stations, and for 19 crest-stage, partial record streamflow stations; (2) stage records for 7 lakes; (3) water-quality records for 12 streamflow-gaging stations, for 37 ungaged streamsites, and for 87 wells; and (4) water-level records for 212 observation wells.

This series of annual reports for Louisiana began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Louisiana were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 2, 7, and 8." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperatures, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from Distribution Branch, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report LA-90-1." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on back of title page or by telephone (504) 389-0281.

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, for ground-water levels since 1936, and for water-quality records since 1943. Organizations that assisted in collecting data during this water year through joint-funding agreements with the Survey are:

Louisiana Department of Transportation and Development, Neil L. Wagoner, Secretary.

Louisiana Department of Environmental Quality, Paul H. Templet, Secretary; Office of Water Resources, Maureen O'Neill, Assistant Secretary.

City of Baton Rouge and Parish of East Baton Rouge, Tom Ed McHugh, Mayor-President; Department of Public Works, Robert R. Canfield, Director.

Jefferson Parish Department of Public Works, B.K. Sneed, Director.

Capital Area Ground Water Conservation Commission, Mark Walton, Chairman.

Sabine River Compact Administration, composed of James B. Furrh, Jr., Chairman; Neil L. Wagoner, Raymond J. Palmer, and Robert Dale Geoghagan for Louisiana; Danny Choate, and David V. Cardner for Texas.

Louisiana Department of Wildlife and Fisheries, A. Kell McInnis, III, Acting Secretary.

Assistance in the form of funds or services was provided by the U.S. Army Corps of Engineers, U.S. Forest Service, and the National Park Service in collection of records for stage and discharge stations and for water-quality stations published in this report.

Organizations that supplied data are acknowledged in the station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface-Water Conditions

During October and November, the average rainfall in Louisiana ranged from 1.59 in. below to 1.24 in. above the 30-year average of 3.02 and 4.14 in.; the average during December was 0.27 in. below the 30-year average of 5.28 in. During October, the statewide average rainfall total was only 1.43 in. The lack of rain caused mild drought conditions in the northeastern and southeastern parts of the State. The statewide average rainfall total for November was 5.38 in. On November 8, 13.70 in. was recorded at Gretna. The statewide average rainfall total for December was 5.01 in, but rainfall was deficient in some parts of the State. Deficient rainfall in the Calcasieu River basin caused the December monthly mean discharge of Calcasieu River near Oberlin (96.8 ft³/s) to be well below the long-term December monthly mean of 1.551 ft³/s (fig. 1).

During January, the average rainfall ranged from a high of 11.71 in. in the central part of the State to a low of 6.95 in. in the southern part, and several areas received more than 15 in. of rainfall. The statewide average rainfall for January was 9.93 in., 5.42 in. above the long-term average. For the central part of the State, January had the greatest amount of rainfall ever recorded for the month, breaking the previous record by more than 1 in. The maximum monthly rainfall recorded was 20.41 in. at Gorum.

The excessive rainfall caused local flooding in areas in southern and southeastern Louisiana. Flooding occurred in areas near the Amite, Comite, and Tickfaw Rivers. On January 25, the Amite River near Darlington had a peak discharge of 104,000 ft³/s, which exceeded the previous peak discharge of 76,400 ft³/s on April 22, 1977. The January monthly mean discharge of 14,540 ft³/s at Amite River near Denham Springs was almost twice the long-term maximum January monthly mean of 7,346 ft³/s which occurred in 1974 (fig. 1). For Mississippi River at Tarbert Landing, Miss., the minimum mean daily discharge for the water year was 188,000 ft³/s on January 2, 1990.

Rainfall was above normal for the month of February with a statewide average total of 6.91 in., more than 2 in. above the 30-year average. As a result of above normal rainfall, the February monthly mean discharge of Pearl River near Bogalusa (56,830 ft³/s) exceeded the 1974 long-term February maximum monthly mean of 46,100 ft³/s (fig. 1).

In March, rainfall was above normal throughout the State with an average total of 6.45 in., 1.7 in. above the 30-year average. However, in April, rainfall was almost 2 in. below normal with an average total of 3.18 in. As a result of above normal rainfall, the March monthly mean discharge at Pearl River near Bogalusa was 28,620 ft³/s and exceeded the long-term March mean of 20,470 ft³/s (fig. 1). The monthly mean discharge at Saline Bayou near Lucky was 363 ft³/s and exceeded the long-term March mean of 285 ft³/s (fig. 1).

During May, the statewide average rainfall totaled 5.96 in., about one-half of an inch above the 30-year average. In the northern part of the State, the May monthly rainfall was 8.34 in., 2.97 in. above the monthly average. Most of the rainfall occurred on May 8-9, 12-13, and 28-31. The maximum rainfall at St. Joseph was 7.37 in. on May 13. As a result of excessive rainfall, the May monthly mean discharge at Pearl River near Bogalusa was 16,560 ft³/s and exceeded the long-term May mean of 12,080 ft³/s. The monthly mean discharge at Saline Bayou near Lucky was 349 ft³/s and exceeded the long-term May mean of 257 ft³/s. The Red River at Shreveport had a maximum discharge for the water year of 238,000 ft³/s on May 14, which reflected heavy rainfall in Texas and Arkansas. The maximum peak discharge for the period of record at Red River at Shreveport was 303,000 ft³/s on April 5, 1945, and this discharge occurred before the operation of locks and dams on the Red River.

The lack of rainfall during the 4-month period, June through September, caused drought conditions in most of the State. For the months of June, July, and August the 3-month average rainfall total for the State was only 9.49 in., almost 5 in. below normal. For September the average rainfall total for the State was 3.67 in., 0.8 in. below the 30-year average. The monthly mean discharge for Calcasieu River near Oberlin reflected the drought conditions. The June monthly mean discharge was 333 ft³/s, which was below the long-term mean of 676 ft³/s; the July monthly mean discharge was 115 ft³/s, which was below the long-term mean of 533 ft³/s; the August monthly mean discharge was 78.5 ft³/s, which was below the long-term mean of 350 ft³/s; and the September monthly mean discharge was 52.5 ft³/s, which was below the long-term mean of 309 ft³/s (fig. 1). Although discharges of streams draining Louisiana generally were below long-term average discharges in June, the flow of the Mississippi River was high. The maximum daily discharge for the water year for the Mississippi River at Tarbert landing (1,230,000 ft³/s) occurred on June 12.

For the 1990 water year, rainfall totals were greater than the long-term averages for northern and central Louisiana, but were less than the long-term average for southern Louisiana. Rainfall totals for northern Louisiana exceeded the long-term average of 50.86 in. by 5.81 in. In the central part of the State, the rainfall total exceeded the long-term average of 56.47 in. by 1.37 in. In the southern part of the State, the rainfall total was 0.31 in. less than the long-term average of 58.20 in.

Surface-Water Quality

This section briefly describes the quality of water in selected streams in Louisiana and presents information on changes in methods of analysis. Samples generally were collected quarterly or monthly from streams within the State and daily for sites on the Mississippi River. Daily analyses on the Mississippi River include specific conductance, temperature, and chloride. Sediment analyses are available for many of the streams.

At most sites along the lower Mississippi River, the specific conductance ranged from approximately 250 to 500 $\mu\text{S}/\text{cm}$ (microsiemens per centimeter at 25 °C) during the 1990 water year. However, influx of saltwater from the Gulf of Mexico into the Mississippi River resulted in specific conductances of 822 $\mu\text{S}/\text{cm}$ on November 27, 1989, 1,780 $\mu\text{S}/\text{cm}$ on December 18, 1989, 1,950 $\mu\text{S}/\text{cm}$ on January 11, 1990, and 2,560 $\mu\text{S}/\text{cm}$ on August 21, 1990 at Venice, La. Water temperature ranged from approximately 4.0 to 32.0 °C. Chloride concentrations ranged from approximately 10 to 40 mg/L (milligrams per liter) along the river except at Venice, where the concentration was 600 mg/L on August 21, 1990.

Locks and dams along the Red River now affect the water quality of the river by creating pools at the locks and dams such as the one at Lock and Dam 1 near Vick. At sites along the Red River, the specific conductance ranged from approximately 181 to 1,070 $\mu\text{S}/\text{cm}$ during the 1990 water year. Water temperature ranged from 11.0 to 32.0 °C. Chloride concentrations ranged from approximately 12 to 150 mg/L along the Red River. Total iron and manganese concentrations were characteristically high. Total iron concentrations ranged from a minimum of 280 $\mu\text{g}/\text{L}$ (micrograms per liter) for Red River above Lock and Dam 1 near Vick, on October 24, 1989, to a maximum of 20,000 $\mu\text{g}/\text{L}$ for Red River at Coushatta, on January 24, 1990. Total manganese concentrations ranged from a minimum of 60 $\mu\text{g}/\text{L}$ at Red River above Lock and Dam 1 near Vick on October 24, 1989, to a maximum of 860 $\mu\text{g}/\text{L}$, at Red River at Coushatta on January 24, 1990.

Water-quality stations on the Atchafalaya River include the Lower Atchafalaya River at Morgan City and the Atchafalaya River at Melville. The minimum and maximum specific conductance values in the Atchafalaya River at Melville were 177 $\mu\text{S}/\text{cm}$ on February 1, 1990 and 439 $\mu\text{S}/\text{cm}$ on September 21, 1990. The minimum measured water temperature was 8.5 °C at Morgan City, on December 13, 1989, and the maximum measured water temperature was 31.5 °C at Melville on September 21, 1990. At Morgan City, the minimum sediment load was 15,400 T/day (tons per day) on November 21, 1989, and the maximum sediment load was 370,000 T/day on February 16, 1990. At Melville, the minimum sediment load was 31,300 T/day on December 8, 1989, and the maximum sediment load was 505,000 T/day on February 27, 1990.

Water-quality stations in the Florida Parishes include Tangipahoa River at Robert, Tchefuncta River near Covington, Amite River near Port Vincent, Pearl River near Bogalusa, and Bogue Chitto near Bush. These stations had characteristically low specific conductances (less than 100 $\mu\text{S}/\text{cm}$) much of the water year. Values of pH ranged from 5.8 at Bogue Chitto, on October 16, 1989, and Tangipahoa River, on October 20, 1989, to 7.3 at Amite River, on October 26, 1989. Fecal coliform counts exceeded 200 col/100 mL (colonies per 100 milliliters) in 75 percent of the samples collected from the Tchefuncta, Tangipahoa, and Amite Rivers during the water year. The fecal coliform counts in samples from the Pearl River and Bogue Chitto exceeded 200 col/100 mL only once during the year.

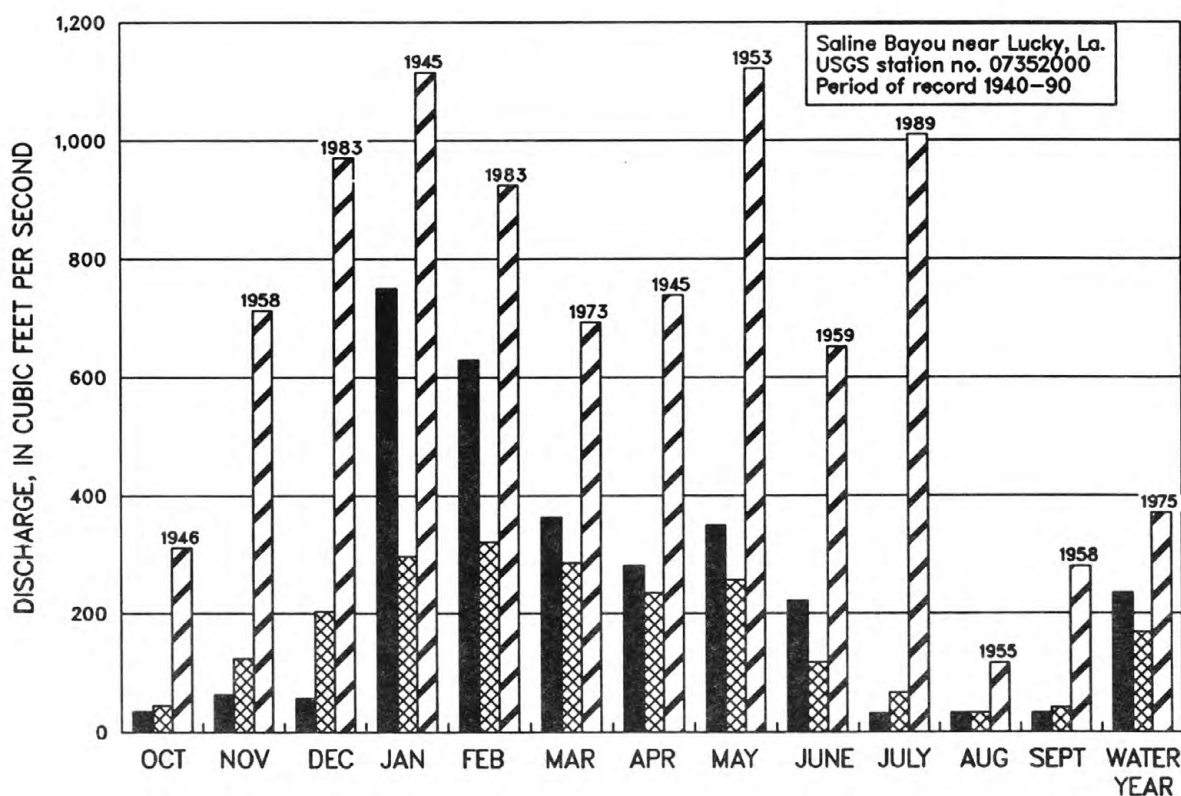
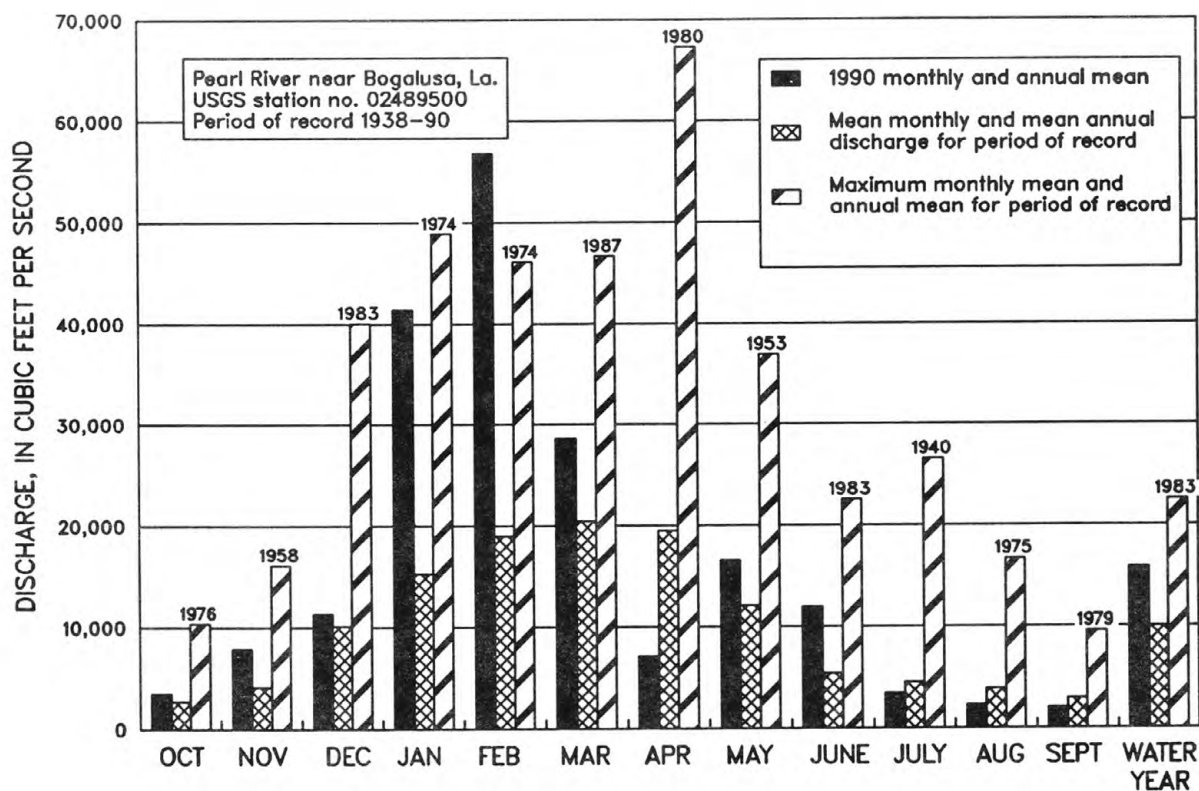


Figure 1.--Comparison of discharge during the 1990 water year with mean and maximum discharge for the period of record at four representative gaging stations.

WATER RESOURCES DATA FOR LOUISIANA, 1990

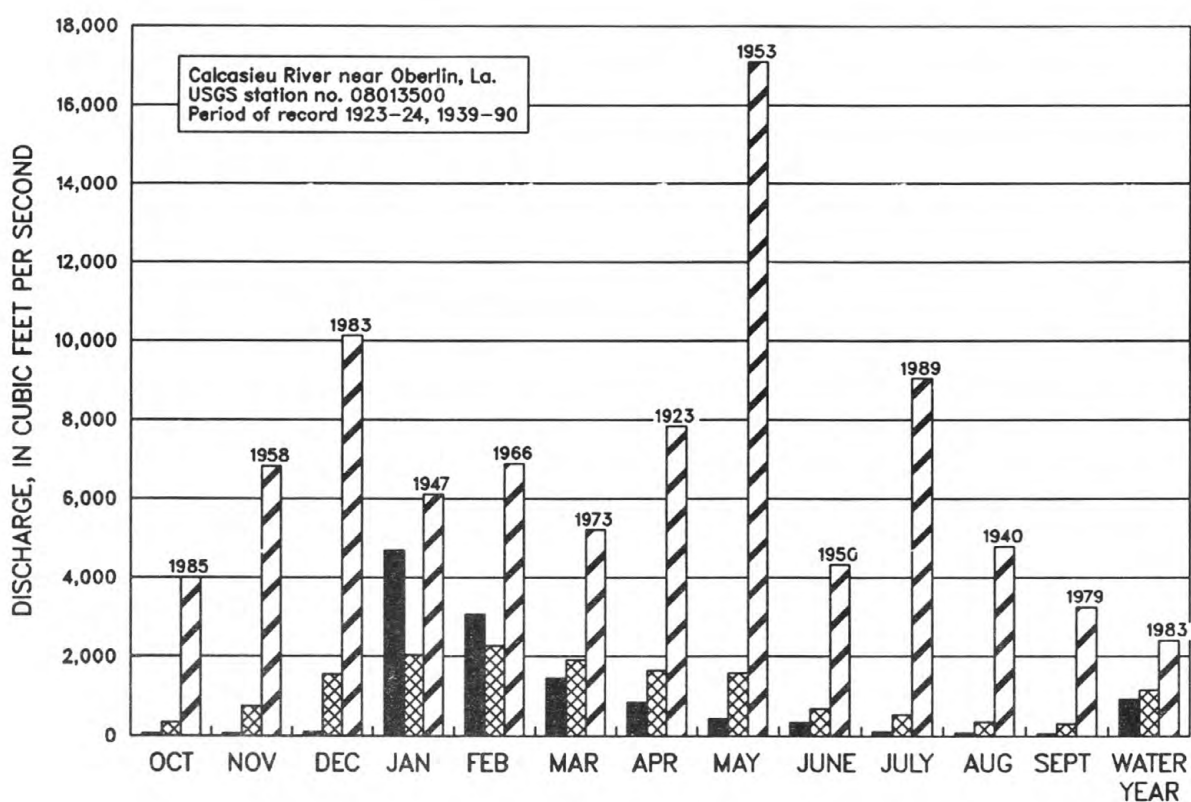
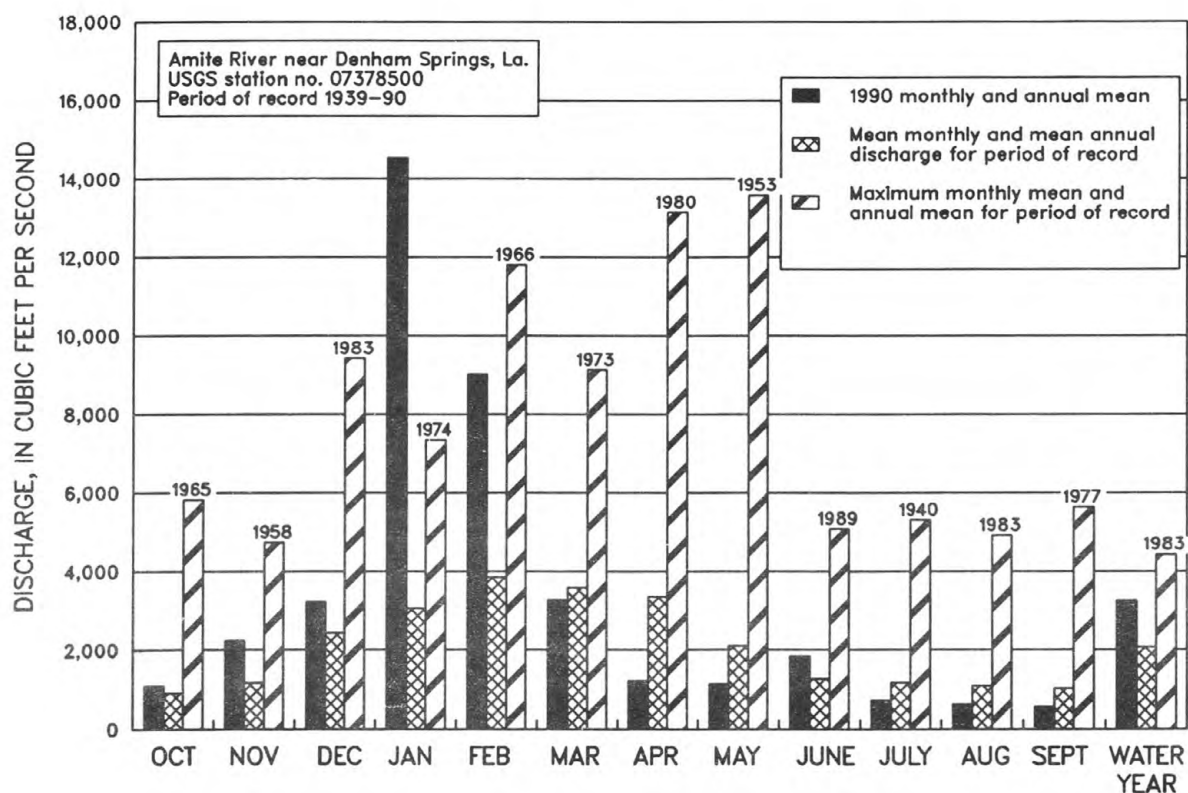


Figure 1.--Comparison of discharge during the 1990 water year with mean and maximum discharge for the period of record at four representative gaging stations--Continued.

Ground-Water Levels

Water-level declines continued in some of the major aquifers in the State during the water year, whereas water levels remained unchanged or recovered in other aquifers. Water levels in the Sparta aquifer of northern Louisiana generally declined from 1 to 2 ft (well Ja-147, fig. 2a), but water levels in Morehouse Parish recovered about 2 ft. At Winnfield in Winn Parish and near West Monroe in Ouachita Parish, the water levels declined about 9 ft. Water levels in the Cockfield aquifer generally were unchanged but declined about 1 ft in LaSalle Parish. Water levels in the Carrizo-Wilcox aquifer generally remained unchanged.

For the Jasper aquifer system of central Louisiana, water levels in the Williamson Creek aquifer indicated no change. However, water levels in the Carnahan Bayou aquifer declined from 1 to 2 ft (well V-426, fig. 2a), and in the Fort Polk-Leesville area of Vernon Parish the decline was greater than 4 ft.

Water levels in the Mississippi River alluvial aquifer of northeastern Louisiana showed seasonal fluctuations in response to ground-water withdrawals and changes in stage of the Mississippi River. In Madison and Morehouse Parishes, water levels in the alluvial aquifer declined 1 to 2 ft. Water levels in the terrace aquifer of northern Louisiana were unchanged in some areas but declined 1 to 2 ft in heavily pumped areas.

In southwestern Louisiana, water levels in aquifers of the Chicot aquifer system remained unchanged or recovered slightly in the rice growing area and in the Lake Charles industrial area. The slow recovery trend of water levels in these areas is due primarily to decreased withdrawals for rice irrigation and industrial use over the last 10 years (well JD-9, fig. 2a).

Water levels in aquifers of the Evangeline equivalent system in southeastern Louisiana, generally showed slight declines in most areas, with little or no change in water levels in the Baton Rouge area. Water levels in the deep aquifers of the Jasper equivalent system declined from 1 to 2 ft, with the greatest decline in the Baton Rouge area (well EB-90, fig. 2b).

Water levels in aquifers of the Chicot equivalent system showed normal seasonal fluctuations but little net change. Water levels in aquifers of the river parishes south of Baton Rouge recovered 1 to 2 ft, except in the Baton Rouge area where they declined by a similar amount.

Ground-Water Quality

Chloride concentrations in water from wells in the Sparta, Mississippi River alluvial, and Gonzales-New Orleans aquifers showed little change from the previous water year. Chloride concentrations in water from 83 wells in the major aquifers in the State ranged from 1.3 mg/L for the "600-foot" aquifer of the Baton Rouge-Gonzales area to 4,400 mg/L for the Williamson Creek aquifer in Concordia Parish. In southwest Louisiana, along the freshwater-saltwater interface, chloride concentrations in the upper part of the Chicot aquifer system showed little change, except in St. Mary Parish where chloride concentrations decreased. In the Lake Charles area, the chloride concentrations in the "200-foot" and "700-foot" aquifers showed little change, but chloride concentrations in the "500-foot" aquifer continued to increase. In the Baton Rouge area, chloride concentrations have remained constant or continued past trends in most wells sampled. However, a slight increase in chloride concentration has been detected in the "1,500-foot" aquifer (well EB-917, fig. 2b).

Analyses of water samples from 5 wells throughout the State indicated that concentrations of most trace elements and organic compounds were at or below detection limits. Water from AC-454 in Acadia Parish at a depth of 246 ft and screened in the upper Chicot aquifer, had a concentration of 600 µg/L of barium. Concentrations of organic chemicals were below the detection limits except for well AC-452 in Acadia Parish, which had a concentration of 0.11 µg/L of malathion.

WATER RESOURCES DATA FOR LOUISIANA, 1990

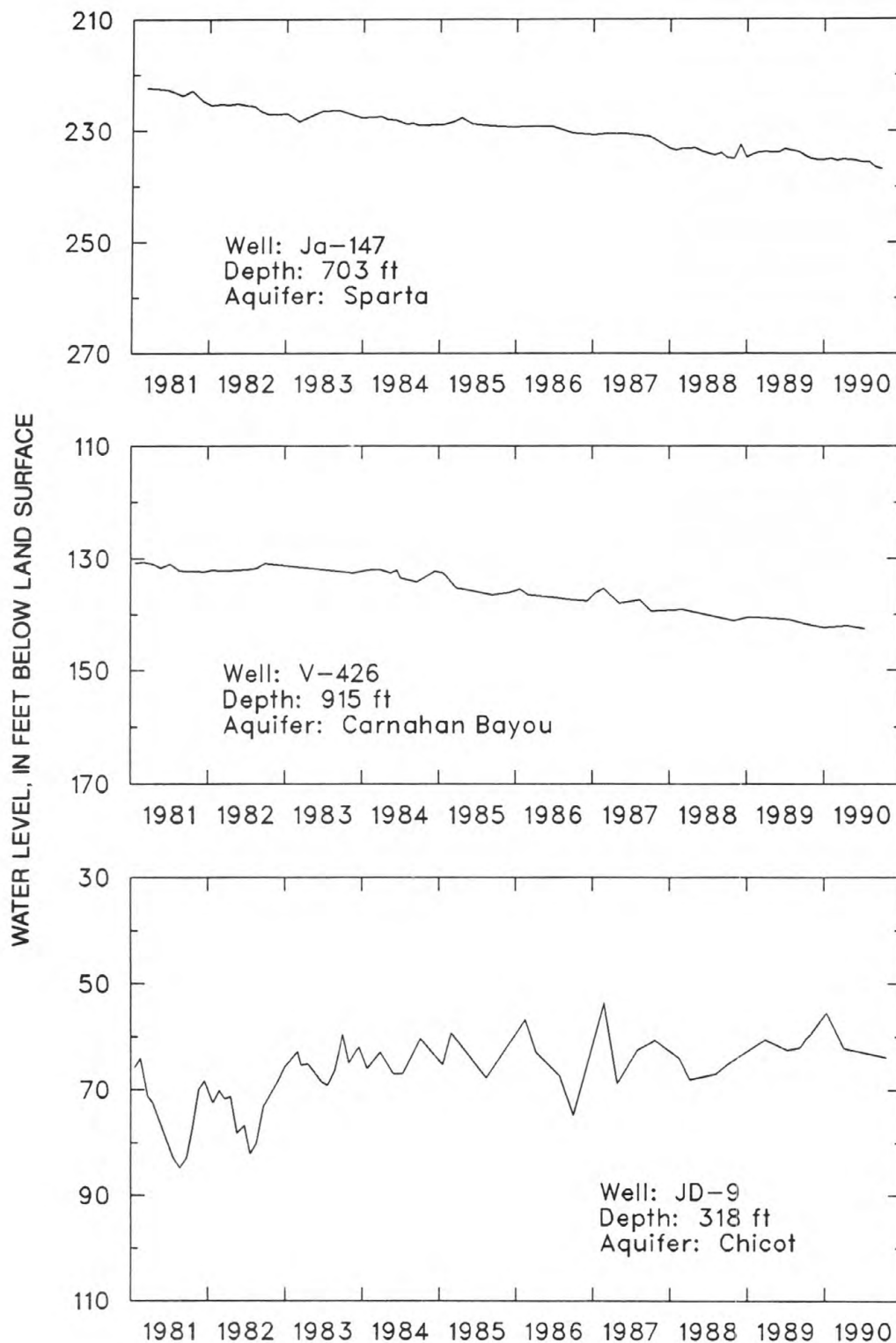


Figure 2a.--Water levels for representative observation wells.

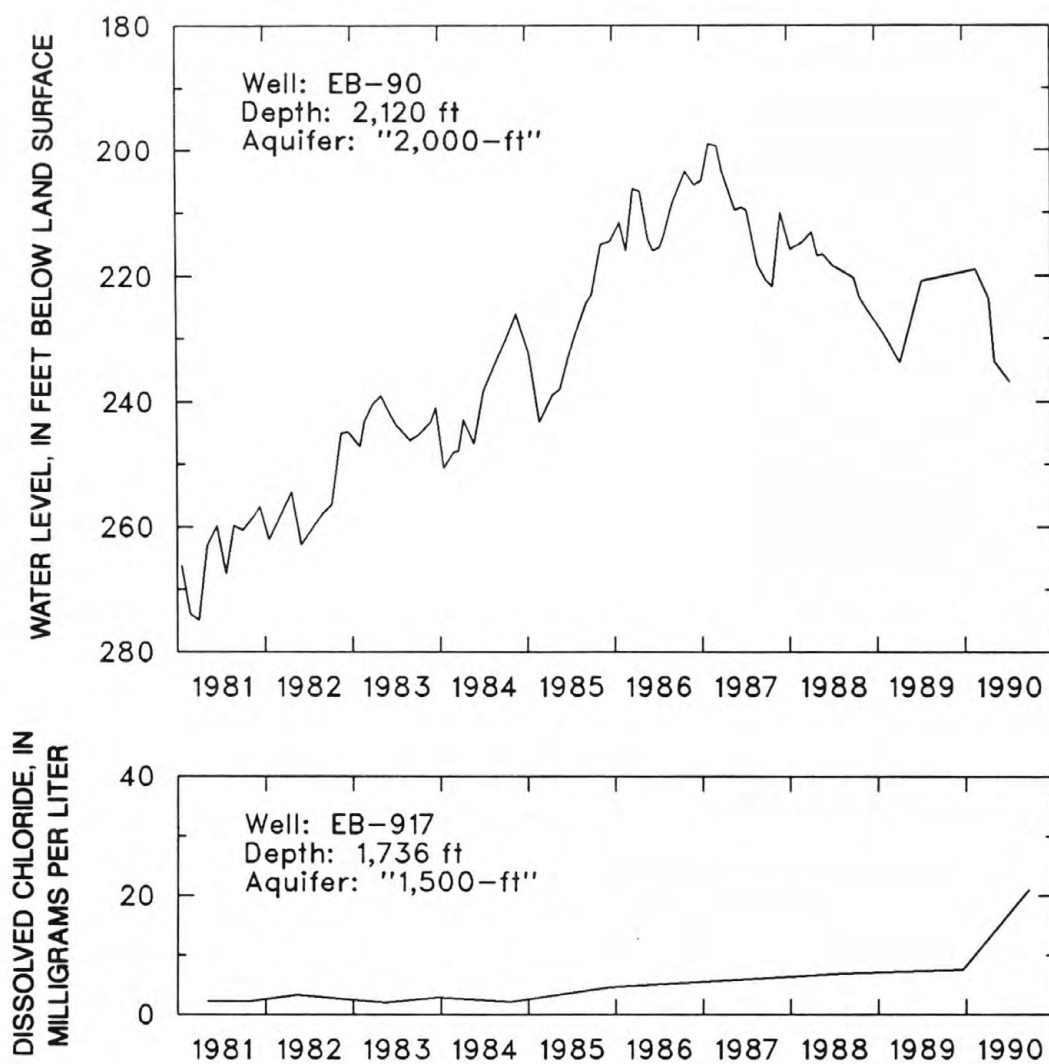


Figure 2b.--Water level for representative observation well and chloride concentration for well EB-917.

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 man-made 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.

National stream-quality accounting network (NASQAN) is a data-collection network designated by the U.S. Geological Survey to meet many of the demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1990 water year that began October 1, 1989, and ended September 30, 1990. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage data for lakes, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 4-15. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Louisiana, for surface-water stations where only miscellaneous measurements are made.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight- to fourteen-digit number for each

station such as 02489500000000, which appears just to the left of the station name, includes the two-digit Part number "02" plus the six- to twelve-digit downstream order number "489500000000". The Part number designates the major river basin; for example "02" is the South Atlantic Slope and Eastern Gulf of Mexico.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a one-second grid. This site-identification number, once assigned, is a pure number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 1). In Louisiana, wells are further identified by a local well number that consists of a letter code that identifies the parish in which the well is located, followed by a serial number assigned when the well was inventoried.

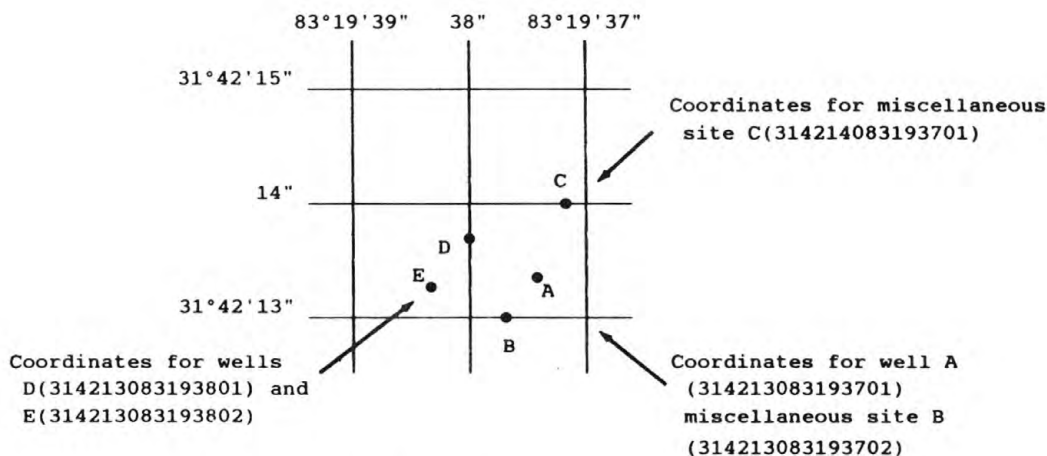


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage partial-record stations for which data are given in this report are shown in figures 4-7.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

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

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and com-

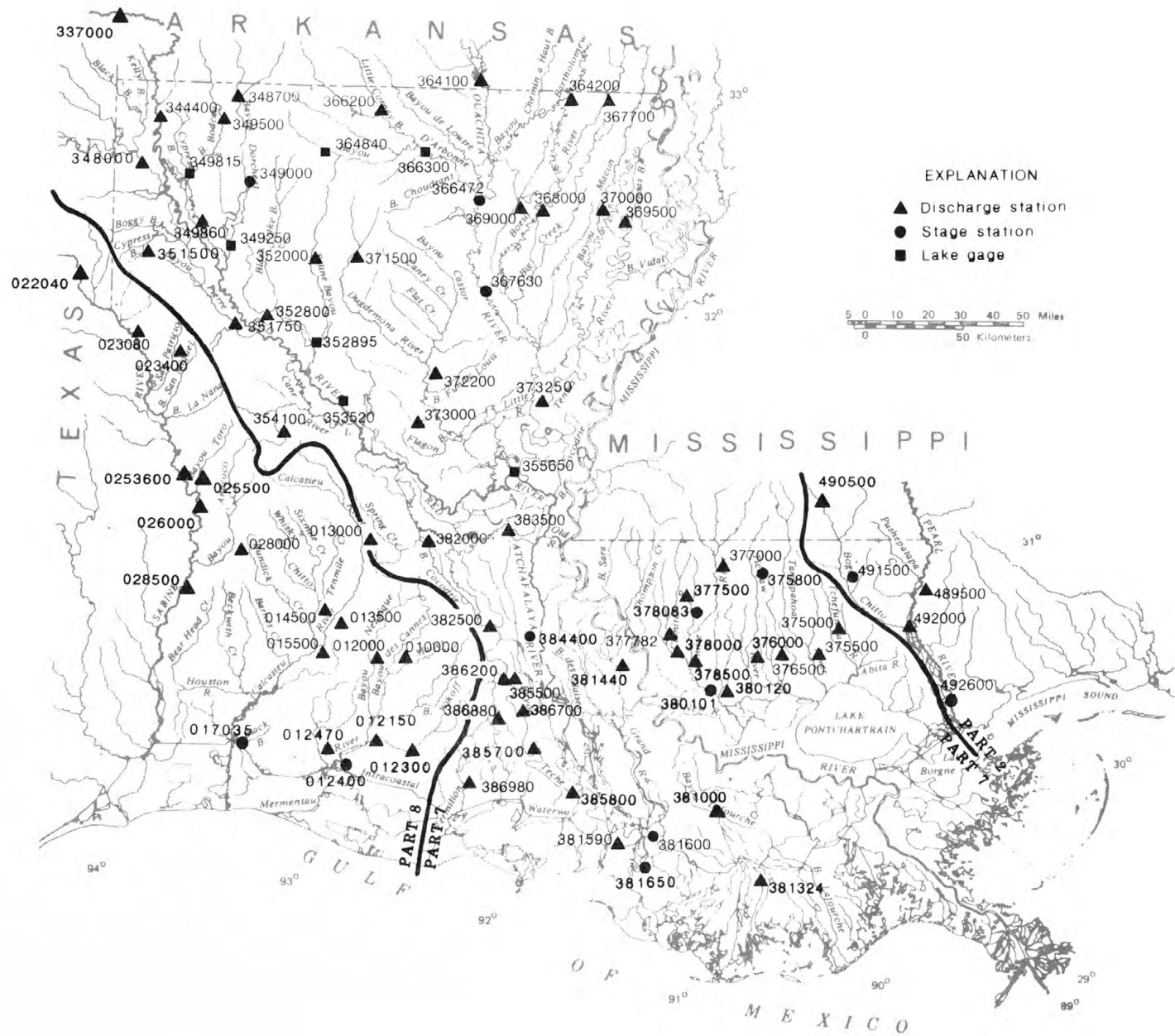


Figure 4.--Location of continuous gaging stations.

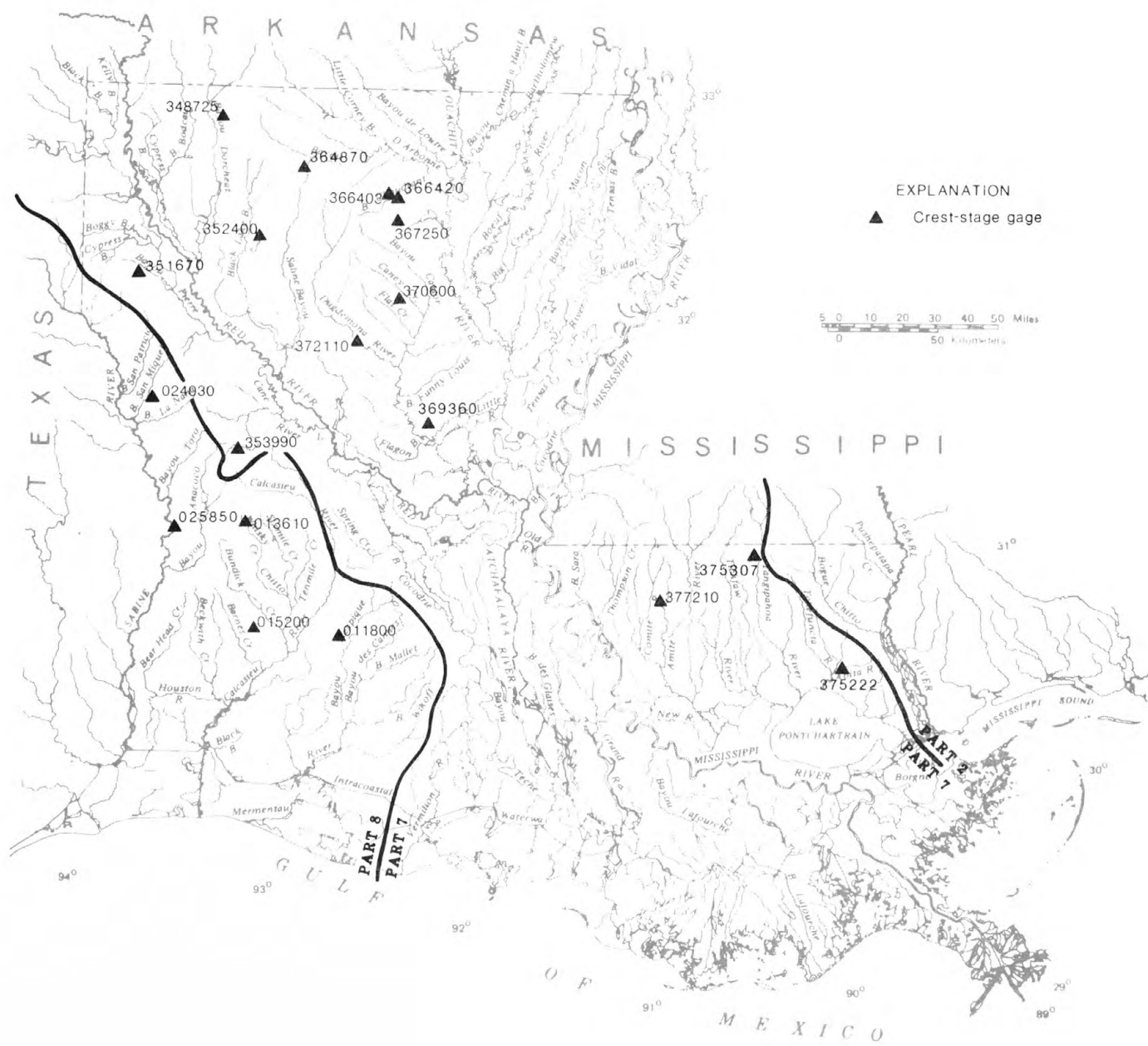


Figure 5.--Location of crest-stage stations.

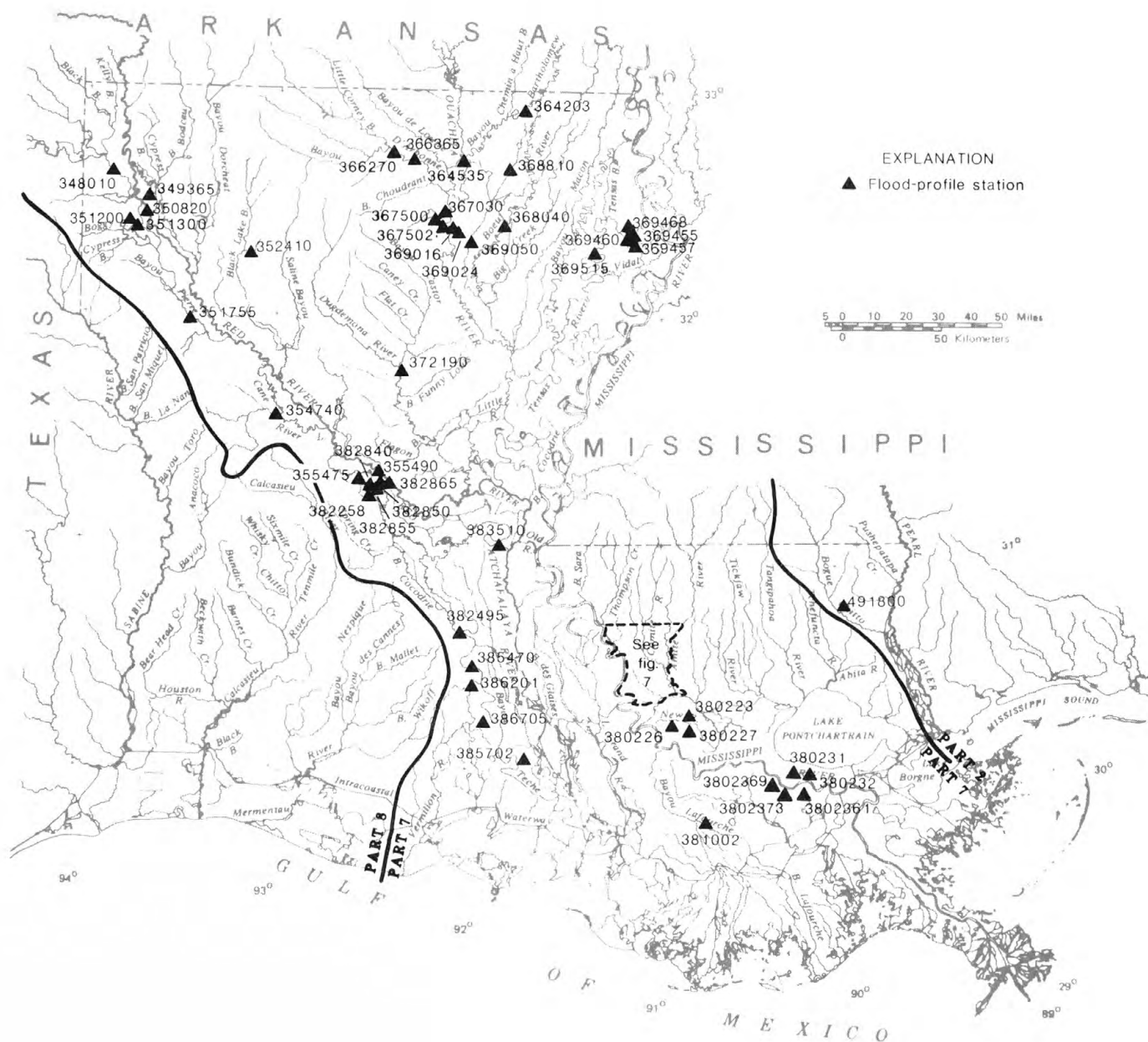


Figure 6.--Location of flood-profile stations.

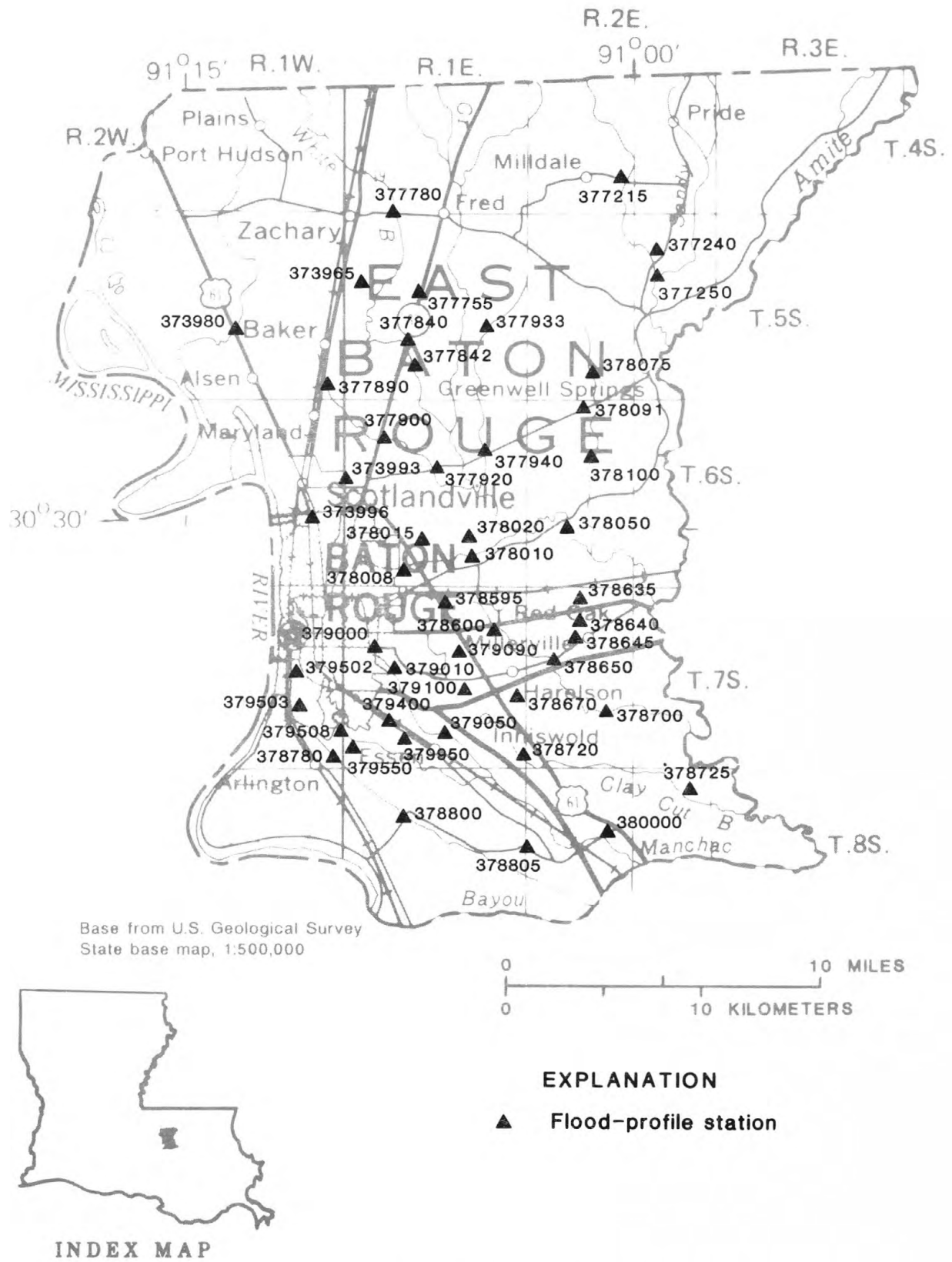


Figure 7.--Location of flood-profile stations in East Baton Rouge Parish.

parison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

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

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

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

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possible, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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

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

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in three tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of annual maximum stages at flood-profile stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in time of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow 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 interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily mean discharges are within 5 percent; "good" within 10 percent and "fair" within 15 percent. "Poor" means that daily mean 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 (ft^3/s) for discharges of less than $1 \text{ ft}^3/\text{s}$; to tenths between 1.0 and $10 \text{ ft}^3/\text{s}$; to whole numbers between 10 and $1,000 \text{ ft}^3/\text{s}$; and to 3 significant figures above $1,000 \text{ ft}^3/\text{s}$. 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.

Discharges at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effect of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Records of discharge, not published by the Geological Survey, are collected in Louisiana at several sites by the U.S. Army Corps of Engineers. The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Louisiana District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 8 and 15.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collections. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapters A1, A3, and A4. All of these references are listed on page 22 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District Office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

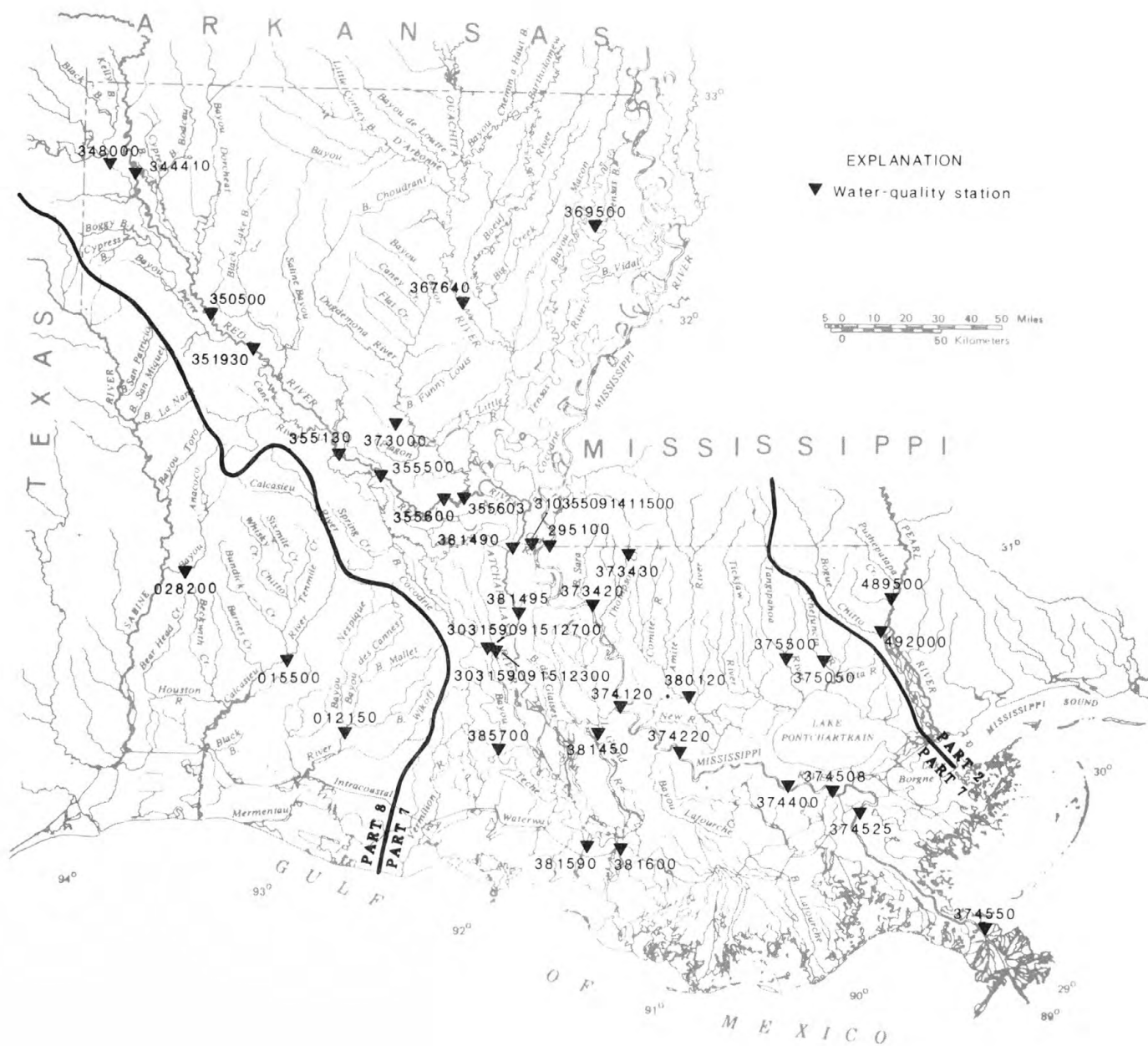


Figure 8.--Location of water-quality stations.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the USGS District Office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers or point samplers. Samples usually are obtained along several vertical lines in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

As other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements for the particle-size distribution of the suspended sediment and bed material are included.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the

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

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)

Records of Ground-Water Levels

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by parishes arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the parish location (abbreviated) followed by a sequential number.

Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. Locations of stations for which records on ground water appear in this report are shown in figures 9-14.

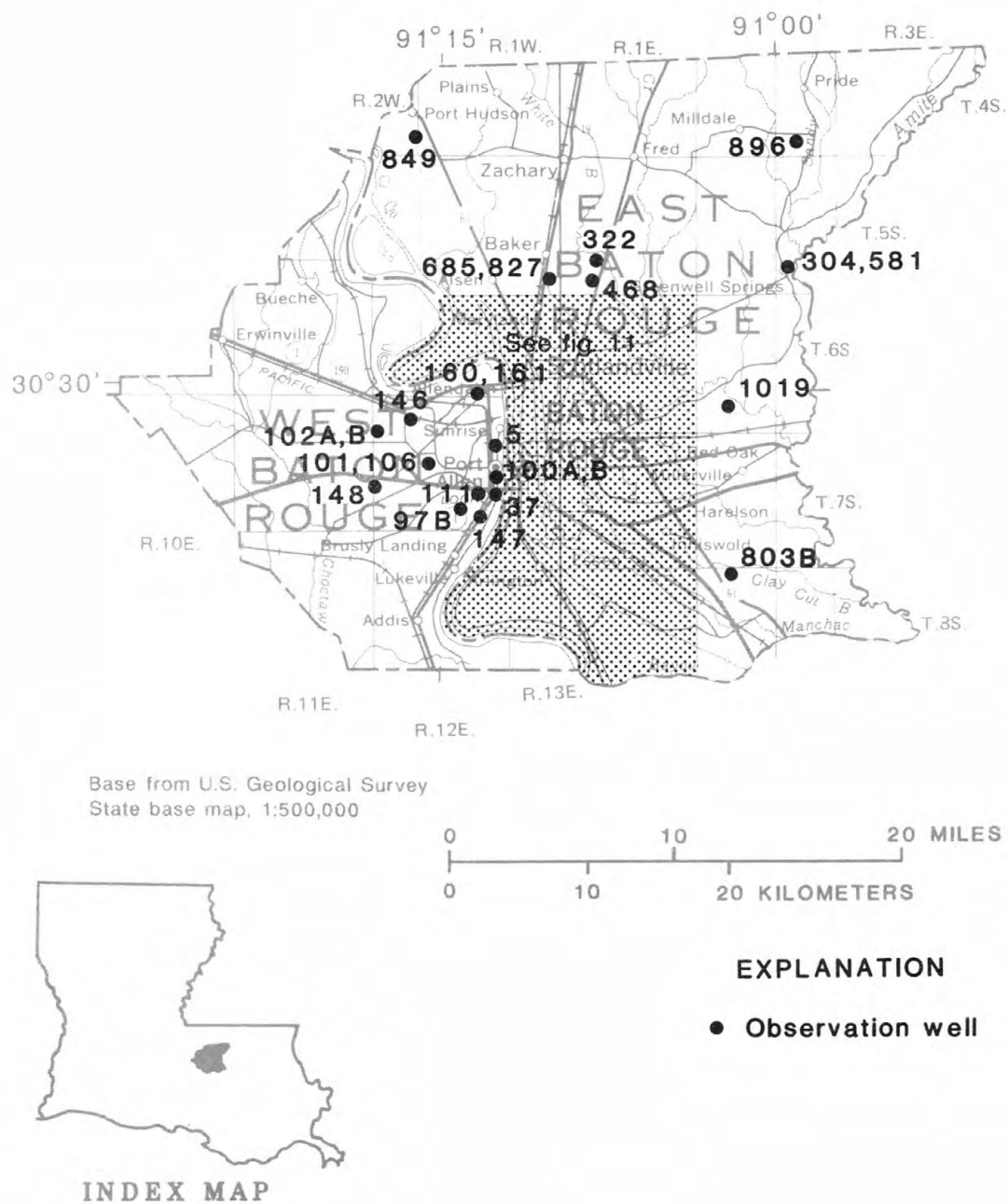


Figure 10.--Location of observation wells in East and West Baton Rouge Parishes.

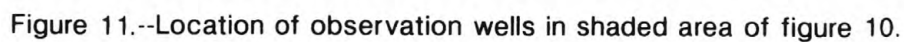




Figure 12.--Location of wells for which water-quality data are included.

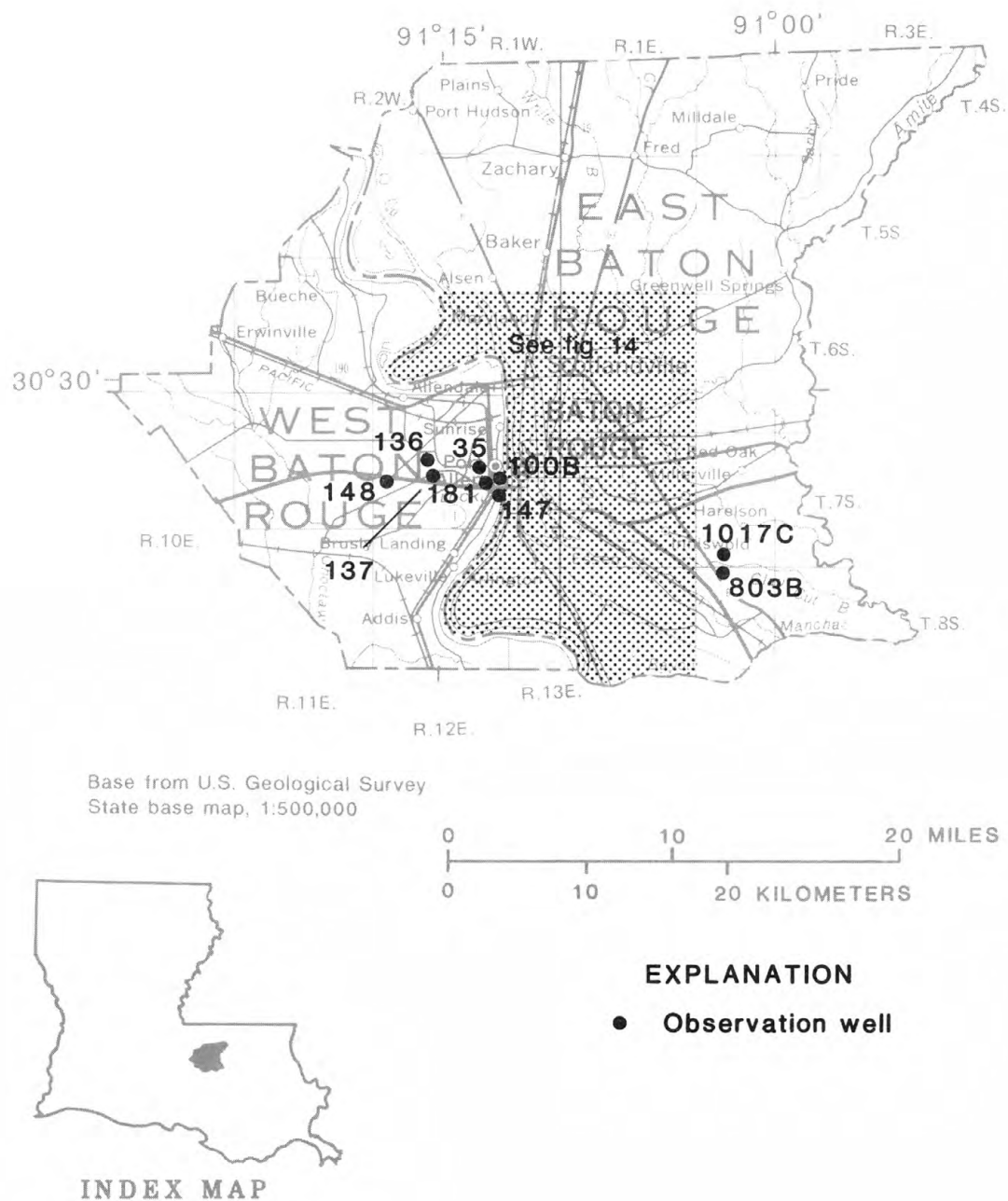


Figure 13. --Location of wells for which water-quality data are included in East and West Baton Rouge Parishes.

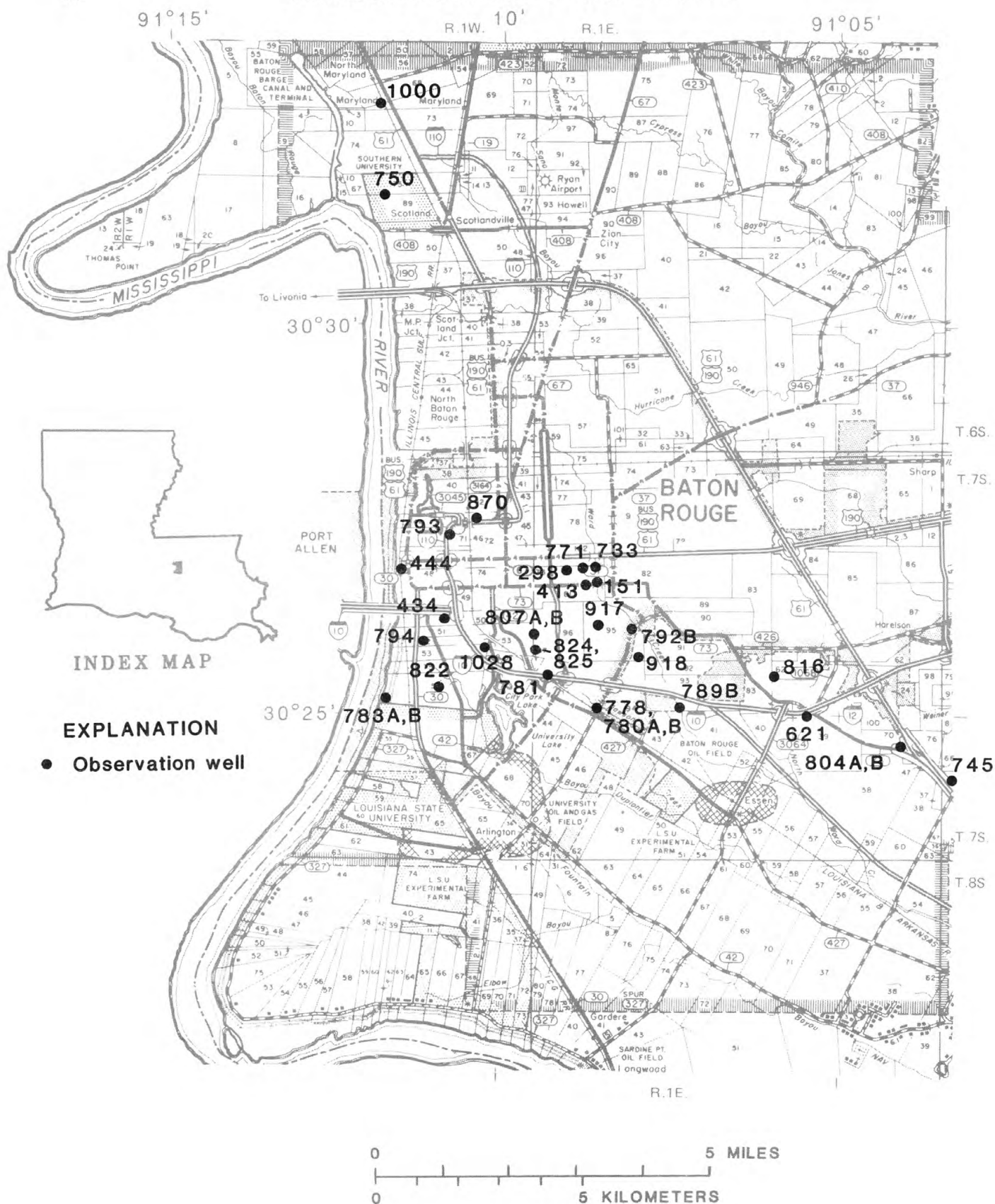


Figure 14.--Location of wells for which water-quality data are included in shaded area of figure 13.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water levels are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels for the period of record and their dates of occurrence are shown on a line above the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed on a following page. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled "QUALITY OF GROUND WATER" which immediately follows the ground-water-level records. Data for quality of ground water are listed alphabetically by parish, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

ACCESS TO WATSTORE DATA

The National **W**ATER Data **S**TORAGE and **R**ETRIEVAL System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's District offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

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

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of metric units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

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

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and thread-like in shape, often grouped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials. NOTE: The letter "K" preceding a value indicates the results are based on colony count outside the ideal range.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory these bacteria are defined as all the organisms that produce colonies within 24 hours when incubated at 35 °C $\pm$ 0.5 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all the organisms that produce blue colonies within 24 hours when incubated at 44.5 °C $\pm$ 0.2 °C on MFC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies with 48 hours at 35 °C $\pm$ 1.0 °C on M-enterococcus medium (STORET CODE 31679), or on KF agar (STORET CODE 31673). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in g/m³ (grams per cubic meter), and periphyton and benthic organisms in g/m² (grams per square meter).

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

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

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

Bottom material: See Bed material.

Recoverable from bottom material refers to the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material".

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

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

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

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

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second (FT³/S, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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.

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

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

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

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^S \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and S is the total number of taxa in the sample of the community. Diversity-index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific 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 river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution area, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water.

Elutriate is the supernatant resulting from the vigorous 30-minute shaking of 1 part bottom sediment with 4 parts water from the proposed disposal site followed by 1 hour of letting the mixture settle and appropriate filtration or centrifugation.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Hydrologic unit is a geographic area representing part or all of a surface-drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (LSD) is a datum plane that is approximately at land surface at each well.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram ($\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per kilogram ($\mu\text{g/kg}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of sediment.

Micrograms per liter ($\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution. Micrograms per liter represent the mass of solute per unit volume (liter) of water.

Microsiemens per centimeter ($\mu\text{S/cm}$) is a unit expressing measurement of specific electrical conductance.

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

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

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

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

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

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

Insecticides are substances or a mixture of substances intended to prevent, destroy, or repel insects. The technical names for insecticides determined in this report are:

Aldrin 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene.

Chlordane 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindene.

DDD (combination of ortho and para isomers)

o,p'-DDD 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)-ethane,
p,p'-DDD 1,1-dichloro-2,2-bis(p-chlorophenyl)ethane.

DDE (combination of ortho and para isomers)

o,p'-DDE 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)-ethylene,
p,p'-DDE 1,1-dichloro-2-bis(p-chlorophenyl)ethylene.

DDT (combination of ortho and para isomers)

o,p'-DDT 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)-ethane,
p,p'-DDT 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane.

Diazinon 0,0-Diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate.

Dieldrin 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8-dimethanonaphthalene.

Endosulfan 1,4,5,6,7,7-hexachloro-5-norbornene-2,3-dimethanol cyclic sulfite.

Endrin 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene.

Ethion 0,0,0',0'-tetraethyl S,S'-methylenediphosphorodithioate.

Heptachlor 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H indene.

Heptachlor epoxide 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro-4,7-methanoindan.

Lindane 1,2,3,4,5,6-hexachlorocyclohexane, 99 percent or more of gamma-isomer.

Malathion S-(1,2-dicarbethoxyethyl) 0,0-dimethyldithiophosphate.

Methyl parathion 0,0-dimethyl 0-4-nitrophenyl phosphorothioate.

Methyl trithion phosphorodithioic acid S-[[[(4-chlorophenyl) thio]-methyl] 0,0-dimethyl ester.

Methoxychlor 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)ethane.

Mirex 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-1,3,4-metheno-1H-cyclobuta[cd]pentalene.

Parathion 0,0-diethyl 0-p-nitrophenyl phosphorothioate.

Perthane 1,1'-(2,2-dichloroethylidene)bis[4-ethylbenzene].

Toxaphene chlorinated camphene containing 67-69 percent chlorine by weight.

Trithion S-[[[(p-chlorophenyl)thio]methyl] 0,0-diethyl phosphorodithioate.

Herbicides are substances or a mixture of substances intended to control or destroy any vegetation. The technical names for herbicides determined in this report are:

2,4-D (2,4-dichlorophenoxy)acetic acid.

2,4,5-T (2,4,5-trichlorophenoxy)acetic acid.

Silvex 2-(2,4,5-trichlorophenoxy)propionic acid.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.2 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

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

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds having various percentages of chlorine.

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

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

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 colloid.

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

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mean concentration times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

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

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. It is expressed in microsiemens (formerly micromhos) per centimeter at 25 °C ($\mu\text{S}/\text{cm}$). Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance in microsiemens (formerly micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

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

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplified the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hard-board) for benthic organism collection, and plexiglass strips for periphyton collection.

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

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using USGS Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer membrane filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only

when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	<u>Hexagenia</u>
Species	<u>Hexagenia limbata</u>

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

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

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

Total refers to the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mean concentration of the constituent, times the factor 0.0027, times the number of days.

Total recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and

suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. **Water temperature--influential factors, field measurement, and data presentation**, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. **Guidelines for collection and field analysis of ground-water samples for selected unstable constituents**, by W.W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. **Application of surface geophysics to ground-water investigations**, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. **Application of seismic-refraction techniques to hydrologic studies**, by F.P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
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- 2-F1. **Application of drilling, coring, and sampling techniques to test holes and wells**, by Eugene Shuter and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. **General field and office procedures for indirect discharge measurements**, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. **Measurement of peak discharge by the slope-area method**, by Tate Dalrymple and M.A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. **Measurement of peak discharge at culverts by indirect methods**, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. **Measurement of peak discharge at width contractions by indirect methods**, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
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- 3-A7. **Stage measurements at gaging stations**, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. **Discharge measurements at gaging stations**, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. **Measurement of time of travel in streams by dye tracing**, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. **Discharge ratings at gaging stations**, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

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- 3-A12. **Fluorometric procedures for dye tracing**, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
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- 3-A14. **Use of flumes in measuring discharge**, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
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- 3-A19. **Levels of streamflow gaging stations**, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.
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- 3-B2. **Introduction to ground-water hydraulics, a programmed text for self-instruction**, by G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
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- 3-B5. **Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction**, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
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- 3-C1. **Fluvial sediment concepts**, by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
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- 4-B2. **Storage analyses for water supply**, by H.C. Riggs and C.H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. **Regional analyses of streamflow characteristics**, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
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- 5-A1. **Methods for determination of inorganic substances in water and fluvial sediments**, by M.J. Fishman and L.C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. **Determination of minor elements in water by emission spectroscopy**, by P.R. Barnett and E.C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
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- 5-A4. **Methods for collection and analysis of aquatic biological and microbiological samples**, by L.J. Britton and P.E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. **Methods for determination of radioactive substances in water and fluvial sediments**, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. **Quality assurance practices for the chemical and biological analyses of water and fluvial sediments**, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. **Laboratory theory and methods for sediment analysis**, by H.P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. **A modular three-dimensional finite-difference ground-water flow model**, by M.G. McDonald and A.W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 7-C1. **Finite difference model for aquifer simulation in two dimensions with results of numerical experiments**, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. **Computer model of two-dimensional solute transport and dispersion in ground water**, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. **A model for simulation of flow in singular and interconnected channels**, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. **Methods of measuring water levels in deep wells**, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. **Installation and service manual for U.S. Geological Survey manometers**, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
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PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°47'35", long 89°49'15", on line between secs.17 and 18, T.3 S., R.14 E., Washington Parish, Hydrologic Unit 03180004, near right bank on downstream side of bridge on State Highway 10, 2.0 mi east of Bogalusa, and 2.0 mi upstream from Bogue Lusa Creek.

DRAINAGE AREA.--6,573 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR LA-1981-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 55.00 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 29, 1954, nonrecording gage at same site and datum.

REMARKS.--Records good. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--52 years, 9,983 ft³/s, 20.62 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 129,000 ft³/s, Apr. 24, 1979, gage height, 23.23 ft; minimum, 1.020 ft³/s, Oct. 29 to Nov. 1, 1963; minimum gage height, 4.84 ft, Oct. 30, 31, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 11, 1938, reached a stage of 21.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98,700, ft³/s, Jan. 29, gage height, 21.77 ft; minimum discharge, 1,860 ft³/s, Sept. 30, gage height, 7.72 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3240	2600	10600	12500	73700	51500	8870	14900	11500	4140	2450	1980
2	3690	2690	10300	13500	67300	50300	8820	16300	29100	3830	2460	1970
3	4870	2740	9960	11400	61400	48100	8490	15500	34300	3570	2480	1950
4	5770	2700	9150	10300	58700	45100	7980	13700	36700	3450	2510	1960
5	5310	2570	8050	13100	55300	42600	7910	10700	32200	3580	2720	1940
6	4820	2580	6980	16600	52600	40800	8390	8170	23900	3550	2720	1900
7	4640	2930	6770	22000	49300	38700	8610	6690	18900	3590	2580	1880
8	4530	4150	9450	29100	46900	36900	8630	5940	17500	3490	2410	1880
9	4120	4530	17100	32800	44300	35800	8650	5650	15700	3320	2300	1890
10	3670	4820	22500	34500	43400	34600	8250	5510	12300	3500	2230	1930
11	3430	7400	24300	35400	41900	33400	7770	5610	10000	4190	2170	2240
12	3430	10100	24600	36100	41000	32300	7510	6570	10100	3750	2140	2130
13	3230	11600	24200	36700	41100	31100	7090	7680	10200	3490	2110	2150
14	2970	12700	21600	37100	42600	29200	7090	20000	9710	3530	2090	2260
15	2790	16600	17100	37300	44300	26300	7750	31100	8320	3570	2070	2450
16	2690	16800	13500	37400	46200	27800	8050	42400	6640	3610	2040	2430
17	2770	13900	10600	37300	49100	31100	7310	57000	5410	4280	2020	2270
18	2970	11100	8700	37900	60100	31400	7200	54800	5090	4620	2010	2160
19	3120	9750	7880	37900	85300	29400	6720	47100	5200	4170	2010	2120
20	3400	9210	8090	37400	85100	25600	5900	35300	5060	3630	2010	2110
21	4130	8900	8300	37300	72800	22100	5390	20100	5010	3420	2070	2060
22	3800	8320	8080	37200	70500	20000	5320	11900	5220	3230	2070	2030
23	3400	7840	7840	37300	70400	18700	5160	9900	5250	3030	2070	2010
24	3110	7640	7470	38500	63600	17500	4910	9090	5670	2940	2510	1970
25	2910	6630	7450	47700	59100	16400	4570	8840	5890	2920	2620	1940
26	2800	6950	7100	70800	56800	15100	4520	8170	5770	2980	2590	1940
27	2690	8230	6330	88900	55100	13700	4870	7250	5060	2890	2450	1930
28	2600	9280	6040	95400	53400	12200	4840	7120	4520	2750	2220	1910
29	2550	10200	6030	96100	---	10600	6470	7900	4330	2660	2100	1890
30	2520	10700	6250	88000	---	9530	10700	6600	4280	2550	2040	1870
31	2510	---	8700	80200	---	9270	---	5820	---	2490	2000	---
TOTAL	108480	236160	351020	1283700	1591300	887100	213740	513310	358830	106720	70270	61150
MEAN	3499	7872	11320	41410	56830	28620	7125	16560	11960	3443	2267	2038
MAX	5770	16800	24600	96100	85300	51500	10700	57000	36700	4620	2720	2450
MIN	2510	2570	6030	10300	41000	9270	4520	5510	4280	2490	2000	1870
CFSM	.53	1.20	1.72	6.30	8.65	4.35	1.08	2.52	1.82	.52	.34	.31
IN.	.61	1.34	1.99	7.27	9.01	5.02	1.21	2.91	2.03	.60	.40	.35
CAL YR 1989	TOTAL 4573890		MEAN 12530		MAX 39800		MIN 2220		CFSM 1.91		IN. 25.89	
WTR YR 1990	TOTAL 5781780		MEAN 15840		MAX 96100		MIN 1870		CFSM 2.41		IN. 32.72	

PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.56	8.21	15.60	16.36	21.16	20.49	15.19	17.26	15.40	10.73	8.81	8.05
2	10.17	8.36	15.47	16.70	20.98	20.46	15.16	17.53	19.23	10.35	8.82	8.02
3	11.58	8.43	15.29	15.93	20.81	20.39	14.96	17.37	19.73	10.02	8.84	7.98
4	12.52	8.37	14.87	15.47	20.73	20.29	14.65	17.00	19.94	9.85	8.88	7.99
5	12.03	8.18	14.21	16.54	20.62	20.20	14.60	16.08	19.54	10.03	9.14	7.96
6	11.39	8.19	13.53	17.47	20.53	20.13	14.90	14.76	18.64	10.00	9.15	7.88
7	11.15	8.71	13.38	18.39	20.42	20.05	15.04	13.78	17.94	10.05	8.97	7.84
8	11.00	10.48	14.94	19.24	20.35	19.96	15.04	13.15	17.68	9.91	8.75	7.83
9	10.43	10.99	17.55	19.60	20.26	19.87	15.06	12.89	17.26	9.68	8.59	7.85
10	9.79	11.39	18.48	19.75	20.23	19.76	14.81	12.76	16.27	9.92	8.47	7.91
11	9.43	13.76	18.71	19.83	20.17	19.65	14.51	12.85	15.31	10.79	8.38	8.42
12	9.43	15.37	18.74	19.89	20.14	19.55	14.35	13.69	15.36	10.24	8.33	8.26
13	9.15	16.02	18.69	19.94	20.14	19.44	14.07	14.42	15.43	9.90	8.28	8.29
14	8.78	16.42	18.34	19.97	20.20	19.25	14.08	18.04	15.17	9.97	8.26	8.44
15	8.50	17.46	17.59	19.99	20.26	18.94	14.50	19.44	14.38	10.02	8.23	8.74
16	8.36	17.51	16.67	20.00	20.33	19.10	14.69	20.16	13.26	10.06	8.18	8.70
17	8.47	16.78	15.60	19.99	20.42	19.44	14.22	20.67	12.18	10.89	8.13	8.46
18	8.77	15.81	14.61	20.02	20.76	19.47	14.15	20.61	11.85	11.31	8.11	8.29
19	9.00	15.18	14.12	20.02	21.46	19.27	13.81	20.35	11.99	10.80	8.11	8.21
20	9.40	14.91	14.24	20.00	21.46	18.86	13.11	19.78	11.82	10.23	8.11	8.19
21	10.45	14.74	14.38	19.99	21.14	18.42	12.66	18.03	11.76	9.99	8.23	8.12
22	9.98	14.38	14.24	19.99	21.07	18.13	12.59	16.13	12.01	9.77	8.23	8.05
23	9.39	14.09	14.09	19.99	21.07	17.93	12.41	15.26	12.04	9.54	8.23	8.02
24	8.98	13.96	13.86	20.04	20.88	17.74	12.11	14.84	12.43	9.42	8.87	7.93
25	8.68	13.26	13.84	20.37	20.74	17.55	11.72	14.70	12.63	9.40	9.02	7.88
26	8.52	13.50	13.61	21.08	20.67	17.30	11.65	14.29	12.52	9.48	8.98	7.88
27	8.35	14.33	13.01	21.55	20.61	16.99	12.06	13.71	11.81	9.36	8.80	7.86
28	8.21	14.94	12.76	21.70	20.56	16.61	12.03	13.62	11.18	9.18	8.45	7.81
29	8.14	15.43	12.75	21.71	---	16.05	13.53	14.13	10.96	9.07	8.27	7.77
30	8.10	15.68	12.95	21.53	---	15.54	16.02	13.23	10.90	8.93	8.15	7.74
31	8.09	---	14.56	21.34	---	15.41	---	12.57	---	8.85	8.08	---
MAX	12.52	17.51	18.74	21.71	21.46	20.49	16.02	20.67	19.94	11.31	9.15	8.74
MIN	8.09	8.18	12.75	15.47	20.14	15.41	11.65	12.57	10.90	8.85	8.08	7.74

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1952-53, 1963 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1962 to September 1970, June 1975 to October 1980, April 1981 to September 1981.

pH: June 1975 to October 1980.

WATER TEMPERATURES: November 1962 to September 1970, June 1975 to October 1980, April 1981 to September 1981.

DISSOLVED OXYGEN: June 1975 to October 1980.

SUSPENDED-SEDIMENT CONCENTRATIONS: April 1967 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1967 to current year.

INSTRUMENTATION.--Water-quality monitor June 1975 to October 1980.

REMARKS.--Suspended-sediment data, sieve diameter, percent finer than 0.062 MM are instantaneous values.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 180 micromhos Sept. 10, 1965; minimum, 17 micromhos Apr. 26, 1979.

pH: Maximum, 8.4 units Oct. 19, 21, 1976; minimum, 5.4 units Jan. 23, 24, 1977, Jan. 18-20, 1980.

WATER TEMPERATURES: Maximum daily, 35.0 °C July 23, 1981; minimum daily, 1.5 °C Dec. 21, 1963.

DISSOLVED OXYGEN: Maximum, 12.9 mg/L Oct. 22, Dec. 1, 1976; minimum, 2.9 mg/L May 25, 1977.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 576 mg/L Oct. 24, 1984; minimum daily mean, 2 mg/L Nov. 11-13, 1969, Oct. 15, 17, Nov. 14, 1971, Oct. 15-21, Nov. 3-5, 1972.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 80,600 tons Apr. 8, 1983; minimum daily, 7 tons Nov. 11-13, 1969.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 402 mg/L May 14; minimum daily mean, 22 mg/L Oct. 30.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 34,100 tons Jan. 27; minimum daily, 148 tons Sept. 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOC- CI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 16...	1430	2690	83	6.44	23.5	40	9.2	9.1	2.6	K6	190
JAN 03...	1030	61400	56	6.63	10.0	100	65	9.8	1.8	520	520
APR 03...	1130	8490	80	6.94	18.0	--	15	8.6	0.8	150	180
JUL 05...	1200	3580	83	6.54	28.0	5	7.0	8.0	2.8	K60	520

DATE	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 16...	16	4.6	1.2	9.4	2.0	26	6.0	6.4	0.1	9.7	56
JAN 03...	12	3.0	1.1	4.8	2.3	8	8.0	4.9	<0.1	9.0	41
APR 03...	17	4.6	1.3	8.5	1.7	20	10	5.1	0.1	9.3	60
JUL 05...	18	5.2	1.3	8.1	1.7	24	6.7	7.0	0.2	9.3	52

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)
OCT 16...	53	<0.01	<0.10	0.01	0.02	0.6	0.06	<0.01	0.01	20	<1
JAN 03...	39	<0.01	0.23	0.11	0.10	0.8	0.10	0.02	--	180	<1
APR 03...	53	<0.01	0.30	0.03	0.03	0.5	0.08	0.02	<0.01	50	<1
JUL 05...	54	<0.01	0.10	0.02	<0.01	0.4	0.06	0.01	<0.01	30	<1

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM, DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM, DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 16...	22	<0.5	<1	<1	<3	3	140	2	<4	11	<0.1
JAN 03...	26	<0.5	<1	<1	<3	7	230	2	<4	17	<0.1
APR 03...	28	<0.5	<1	<1	<3	2	210	2	<4	28	<0.1
JUL 05...	35	<0.5	<1	<1	<3	3	210	1	<4	7	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 16...	<10	1	<1	<1	39	<6	<3	39	283	100
JAN 03...	<10	2	<1	<1	24	<6	7	154	25500	90
APR 03...	<10	1	<1	<1	33	<6	7	61	1400	84
JUL 05...	<10	1	<1	<1	43	<6	10	45	435	99

< Actual value is known to be less than the value shown.

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	41	302	25	175	99	2830	151	5140	101	20100	70	9710
2	49	490	25	182	90	2500	188	6850	88	16000	64	8670
3	73	962	25	185	85	2290	146	4490	86	14300	77	10000
4	122	1900	23	168	73	1800	113	3140	94	14900	82	9990
5	89	1280	25	173	57	1240	156	5560	99	14800	94	10800
6	73	948	26	181	49	923	139	6230	104	14800	101	11100
7	68	852	36	286	47	860	333	19900	107	14200	93	9720
8	52	635	60	676	92	2360	314	24800	112	14200	86	8570
9	46	510	51	622	312	14500	253	22400	110	13200	84	8120
10	40	395	78	1020	341	20800	227	21100	106	12400	85	7940
11	37	343	265	5320	242	15900	196	18700	104	11800	84	7580
12	36	333	291	8010	165	11000	195	19000	113	12500	81	7060
13	32	279	216	6770	129	8430	200	19800	127	14100	97	8150
14	31	249	197	6810	122	7080	184	18400	122	14100	90	7100
15	31	234	189	8470	97	4480	166	16700	89	10700	137	9730
16	28	203	124	5590	83	3030	159	16100	81	10100	152	11500
17	28	209	111	4140	76	2180	160	16100	117	15500	157	13200
18	30	241	98	2940	66	1550	153	15700	153	24900	127	10800
19	32	270	89	2340	56	1190	141	14400	137	31600	101	7990
20	33	304	92	2290	50	1090	139	14000	100	23000	88	6060
21	51	569	93	2230	50	1120	141	14200	91	17900	75	4450
22	44	450	77	1730	49	1070	146	14700	82	15600	73	3940
23	48	439	74	1570	39	826	152	15300	113	21400	76	3840
24	38	319	68	1400	45	908	154	16000	107	18400	79	3730
25	32	251	57	1020	49	986	154	19900	81	12900	80	3540
26	27	204	58	1090	43	823	167	32100	93	14300	71	2890
27	26	189	96	2140	39	665	142	34100	95	14100	73	2680
28	23	161	125	3140	39	636	117	30200	81	11700	70	2310
29	24	165	110	3060	38	619	103	26700	---	---	78	2230
30	22	150	107	3090	42	710	102	24200	---	---	81	2080
31	26	176	---	---	90	2120	110	23800	---	---	76	1900
TOTAL	---	14012	---	76818	---	116516	---	539710	---	443500	---	217380
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	70	1680	247	9940	210	6630	38	425	31	205	33	176
2	60	1430	181	7970	220	17300	36	372	34	227	32	170
3	55	1260	137	5730	172	16000	37	357	36	241	33	174
4	53	1140	114	4220	125	12400	39	363	40	271	33	175
5	51	1090	99	2860	120	10400	41	396	41	301	32	168
6	51	1160	88	1940	103	6620	36	345	44	323	32	164
7	55	1280	71	1280	98	4970	35	339	42	293	33	168
8	55	1280	60	962	118	5580	37	349	36	234	33	168
9	54	1260	61	931	97	4110	36	323	35	217	29	148
10	51	1130	55	817	82	2720	41	389	37	223	31	162
11	47	985	55	835	77	2080	51	577	38	223	48	290
12	47	952	75	1330	79	2150	42	424	37	213	52	299
13	46	879	162	3380	73	2010	40	377	36	205	41	238
14	45	863	402	21900	74	1940	48	457	33	186	43	262
15	64	1340	313	26400	70	1570	46	443	31	173	46	304
16	57	1240	202	23200	58	1040	41	400	29	160	49	321
17	45	888	170	26200	53	773	50	579	33	180	43	264
18	43	836	130	19200	45	618	56	699	34	185	41	239
19	48	870	88	11200	41	576	56	631	33	179	44	252
20	47	747	107	10100	39	533	56	547	32	174	46	262
21	45	655	128	6910	41	555	49	452	32	179	45	250
22	48	689	114	3660	43	606	47	409	32	179	42	230
23	51	711	90	2400	48	680	43	352	33	184	44	239
24	55	729	82	2010	54	827	37	293	46	313	44	234
25	58	716	71	1690	53	843	37	292	46	325	43	225
26	58	708	61	1340	45	700	36	290	43	301	41	215
27	60	789	60	1170	41	559	34	265	41	271	40	208
28	60	784	67	1290	40	487	36	267	37	221	39	201
29	102	1790	82	1750	43	503	35	251	34	193	39	199
30	228	6530	55	979	44	508	34	234	32	175	41	207
31	---	---	53	833	---	---	32	215	33	178	---	---
TOTAL	---	36411	---	204427	---	106288	---	12112	---	6932	---	6612

PEARL RIVER BASIN

02490500 BOGUE CHITTO NEAR TYLERTOWN, MS

LOCATION.--Lat 31°10'37", long 90°16'48", in SE 1/4 sec.34, T.3 N., R.9 E., Washington Meridian, Pike County, Hydrologic Unit 03180005, near right bank on downstream side of bridge on U.S. Highway 98, 0.2 mi upstream from Bars Branch, 2.2 mi downstream from Topisaw Creek, and 9.2 mi northwest of Tylertown.

DRAINAGE AREA.--492 mi².

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

REVISED RECORDS.--WSP 1504: 1945(P), 1946(M), 1947-51, 1953. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 227.40 ft above National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--46 years, 803 ft³/s, 22.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,200 ft³/s, Apr. 7, 1983, gage height, 34.62 ft, minimum, 175 ft³/s Oct. 31, 1963, minimum gage height, 5.93 ft, Sept. 30, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1936 reached a stage about 0.1 ft higher than the flood of Apr. 7, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 25	1430	*43,400	*a31.75	May 14	1600	17,700	a22.68
Feb. 17	0230	22,200	a25.07				

a Outside gage.

Minimum daily discharge, 253 ft³/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1710	258	437	3740	1330	729	668	1770	2180	360	340	273
2	1730	260	378	2730	949	3320	558	759	3000	357	510	277
3	851	256	350	1540	1010	3870	652	599	2640	379	413	275
4	448	254	335	1290	2270	3740	554	531	2090	389	363	271
5	366	257	328	2520	2280	2480	496	491	1070	373	341	269
6	330	259	328	3870	2290	1140	466	461	742	363	319	267
7	310	272	978	4190	1300	863	445	441	607	352	309	264
8	296	346	4710	5250	943	744	432	427	538	346	302	265
9	283	1090	4270	4290	1090	680	424	548	498	389	298	267
10	276	772	4640	3360	3180	650	452	820	513	592	294	272
11	272	508	2600	1700	3690	600	662	1000	857	584	292	282
12	269	384	1800	1030	2770	561	895	607	504	620	289	297
13	266	346	1680	806	1590	536	623	2770	453	675	287	302
14	264	335	1020	689	977	518	519	13100	433	495	285	294
15	263	352	771	628	1960	645	508	8490	424	411	284	325
16	269	532	627	577	10300	2170	554	3250	414	382	283	328
17	439	478	538	548	16300	2260	518	1370	414	378	284	290
18	455	446	501	2160	6830	1370	460	975	818	378	283	273
19	576	368	541	3530	4300	923	432	822	693	369	288	266
20	430	339	709	3230	2730	717	421	688	475	359	317	262
21	329	327	709	3670	1890	618	416	1230	419	353	348	266
22	300	381	562	2960	4570	568	412	1530	394	348	540	267
23	289	553	477	2500	4170	538	426	1190	446	341	396	266
24	279	498	430	4700	3210	516	419	793	691	338	325	257
25	273	445	406	38300	2090	494	408	627	830	335	389	254
26	269	394	402	27700	1120	475	398	554	523	330	370	254
27	265	375	401	8470	888	462	825	571	419	325	318	256
28	263	422	397	3480	777	454	4030	1170	389	322	295	254
29	262	412	533	2490	---	456	3500	879	374	317	288	254
30	261	533	1490	2420	---	596	3440	665	366	312	282	253
31	258	---	2890	2190	---	712	---	664	---	311	279	---
TOTAL	13151	12452	36238	146558	86804	34405	25013	49792	24214	12183	10211	8200
MEAN	424	415	1169	4728	3100	1110	834	1606	807	393	329	273
MAX	1730	1090	4710	38300	16300	3870	4030	13100	3000	675	540	328
MIN	258	254	328	548	777	454	398	427	366	311	279	253
CFSM	.86	.84	2.38	9.61	6.30	2.26	1.70	3.26	1.64	.80	.67	.56
IN.	.99	.94	2.74	11.08	6.56	2.60	1.89	3.76	1.83	.92	.77	.62
CAL YR 1989	TOTAL 274087	MEAN 751	MAX 8620	MIN 211	CFSM 1.53	IN 20.72						
WTR YR 1990	TOTAL 459221	MEAN 1258	MAX 38300	MIN 253	CFSM 2.56	IN 34.72						

02491500 BOGUE CHITTO AT FRANKLINTON, LA

LOCATION.--Lat 30°50'34", long 90°09'43", in SE 1/4 SE 1/4 sec.26, T.2 S., R.10 E., Washington Parish, Hydrologic Unit 03180005, at bridge on State Highway 10, 0.8 mi west of Franklinton, and 3.5 mi upstream from Lawrence Creek.

DRAINAGE AREA.--990 mi².

PERIOD OF RECORD.--August 1928 to September 1931, October 1938 to September 1957, February to September 1975, July 1976 to current year (gage heights and discharge measurements). Gage-height records collected in this vicinity since 1922 are contained in reports of the National Weather Service.

REVISED RECORDS.--WDR LA-1981-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 123.81 ft above National Geodetic Vertical Datum of 1929. August 1928 to September 1931, nonrecording gage at site about 0.2 mi downstream. October 1938 to September 1957, nonrecording gage; February to September 1975 and since July 1976 water-stage recorder at present site. Prior to September 1931 at datum 2.00 ft higher; October 1938 to September 1957 and February to September 1975 at datum 1.00 ft higher.

AVERAGE DISCHARGE.--22 years (water years 1929-31, 1939-57), 1,596 ft³/s, 22.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 125,000 ft³/s, Apr. 7, 1983, gage height, 24.69 ft; minimum discharge, 350 ft³/s, Nov. 6-8, 1938; minimum gage height, not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1900 reached a stage of 28.6 ft, at former site and present datum, from floodmark.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 67,000 ft³/s, Jan. 26, gage height, 21.16 ft, but may have been higher during the period of no gage-height record; minimum gage height, 0.74 ft, Sept. 30.

DISCHARGE MEASUREMENTS MADE DURING YEAR

Date	Discharge (ft ³ /s)
Jan. 27, 1990.....	34,600

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.71	1.13	1.55	---	5.02	2.92	2.36	4.48	14.79	1.35	1.21	.83
2	2.78	1.17	1.44	---	4.06	6.44	2.20	2.75	7.71	1.32	1.56	.89
3	2.57	1.17	1.36	---	3.72	8.12	2.15	2.11	6.40	1.38	1.36	1.05
4	1.76	1.13	1.32	---	7.18	6.88	2.12	1.85	5.22	1.34	1.21	.92
5	1.45	1.12	1.30	---	6.34	6.01	1.97	1.72	3.86	1.37	1.11	1.16
6	1.33	1.13	1.31	---	5.50	4.13	1.88	1.61	2.91	1.30	1.08	.90
7	1.28	1.31	1.99	---	4.95	3.30	1.81	1.55	2.47	1.26	1.15	.82
8	1.25	1.87	7.99	---	3.88	2.96	1.76	1.50	2.26	1.22	1.04	.80
9	1.21	1.78	8.06	---	4.00	2.76	1.73	2.18	2.44	1.39	.99	.80
10	1.19	2.15	7.30	---	6.38	2.81	1.82	2.04	2.04	1.36	.98	.80
11	1.18	1.72	6.41	---	7.46	2.57	2.30	2.19	2.95	1.63	.96	.90
12	1.17	1.47	5.82	---	6.08	2.41	2.23	2.04	2.28	1.48	.94	1.08
13	1.16	1.37	5.82	---	4.99	2.31	2.20	2.22	1.90	1.78	.93	1.03
14	1.16	2.72	5.80	---	3.86	2.22	2.03	6.44	1.77	1.91	.91	1.06
15	1.16	2.17	5.79	---	4.88	2.57	2.55	10.89	1.69	1.53	.88	1.00
16	1.16	2.38	5.78	---	8.65	6.77	2.11	8.78	1.64	1.32	.87	1.04
17	1.32	1.88	5.36	---	12.80	6.49	2.00	4.32	1.59	1.28	.86	1.00
18	2.09	1.63	4.08	---	14.42	5.05	1.83	3.02	1.64	1.27	.85	.90
19	1.55	1.51	3.82	---	11.02	3.89	1.73	2.58	2.11	1.24	.88	.83
20	1.59	1.40	3.08	---	7.64	3.09	1.68	2.29	1.83	1.20	1.12	.81
21	1.37	1.35	2.56	---	5.79	2.69	1.65	2.18	1.59	1.18	1.25	.80
22	1.26	1.40	2.20	---	9.49	2.45	1.63	2.85	1.51	1.16	1.26	.81
23	1.22	1.96	1.97	---	9.69	2.30	1.61	2.76	2.95	1.14	1.41	.80
24	1.19	1.79	1.88	---	7.16	2.19	1.62	2.32	2.36	1.17	1.14	.77
25	1.17	1.63	1.95	---	5.79	2.10	1.58	1.97	2.23	1.13	1.06	.76
26	1.16	1.52	1.99	---	4.14	2.01	1.55	1.79	1.98	1.10	1.15	.76
27	1.15	1.45	2.05	17.94	3.47	1.95	1.91	1.78	1.64	1.07	1.05	.76
28	1.14	1.62	---	11.60	3.13	1.92	5.32	4.67	1.50	1.05	.97	.76
29	1.14	1.58	---	7.50	---	1.92	5.63	4.41	1.43	1.04	.92	.76
30	1.13	1.48	---	6.86	---	2.49	5.49	2.72	1.39	1.03	.86	.75
31	1.13	---	---	5.85	---	2.47	---	4.16	---	1.01	.86	---
MAX	2.78	2.72	---	---	14.42	8.12	5.63	10.89	14.79	1.91	1.56	1.16
MIN	1.13	1.12	---	---	3.13	1.92	1.55	1.50	1.39	1.01	.85	.75

PEARL RIVER BASIN

02492000 BOGUE CHITTO NEAR BUSH, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°37'45", long 89°53'50", in SE 1/4 NE 1/4 sec.42, T.5 S., R.13 E., St. Tammany Parish, Hydrologic Unit 03180005, near center of span on downstream side of bridge on State Highway 21, 0.2 mi downstream from Illinois Central Gulf Railroad bridge, and 1.4 mi north of Bush.

DRAINAGE AREA.--1,213 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR LA-1981-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 44.25 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 22, 1954, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--53 years, 1,946 ft³/s, 21.79 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 131,700 ft³/s, Apr. 8, 1983, gage height, 21.22 ft; minimum, 366 ft³/s, Oct. 22, 23, 26, 29, 1968; minimum gage height, 0.7 ft, Oct. 1, 1937, Oct. 29-31, 1940, Oct. 22-27, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 27	1320	*61,400	*17.45	Mar. 17	1916	11,800	11.18
Feb. 19	2133	26,200	13.44	May 17	0549	13,600	11.52
Feb. 24	0226	16,100	11.94	June 2	1256	29,100	13.83

Minimum discharge, 700 ft³/s, Sept. 29, 30; minimum gage height, 3.42 ft, Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e970	714	1140	4980	7080	3430	2360	4920	4890	1080	866	771
2	e900	765	1140	6840	5670	3610	2060	4190	24700	1050	1000	761
3	e880	788	1100	6350	4450	6750	1880	2350	14600	1050	1140	798
4	e840	769	995	4760	4650	10200	1810	1640	8510	1070	1030	838
5	e830	740	955	4100	7240	8740	1710	1450	6160	1060	946	814
6	e815	729	948	5050	8040	7200	1610	1350	4250	1060	949	851
7	e800	829	1390	5760	6580	5020	1540	1270	2730	1030	919	770
8	e810	1730	3500	7550	5710	3610	1480	1230	2140	999	928	748
9	e805	2260	6790	10000	4610	3120	1430	1370	1990	996	873	743
10	e790	1820	10400	9790	4870	4650	1420	1800	1960	1050	845	740
11	780	1620	9010	7860	6670	3770	1670	1620	1720	1070	832	747
12	773	1290	8230	5630	9150	2740	1910	1630	2150	1200	819	792
13	762	1090	5890	3470	8130	2390	1780	1650	1740	1180	808	871
14	758	1350	4340	2520	6190	2230	1690	2350	1510	1380	800	865
15	754	2640	3180	2190	4730	2290	1870	4630	1460	1390	793	874
16	762	2730	2410	2020	5050	4680	2110	9020	1350	1170	785	815
17	795	2430	2010	1910	6740	10300	1720	12400	1270	1090	778	820
18	983	1760	1740	1930	13700	10300	1560	6470	1230	1070	770	795
19	1270	1370	1680	2660	23700	7120	1430	3110	1280	1040	765	765
20	1040	1200	1780	4220	21400	4830	1360	2190	1490	1000	783	745
21	1030	1090	1750	5550	13800	3360	1320	1800	1330	982	886	736
22	907	1050	1710	6840	10100	2660	1300	1820	1210	973	927	734
23	840	1240	1550	6910	13000	2350	1290	2130	1330	957	1020	745
24	806	1630	1390	5380	15200	2160	1270	2000	2200	950	1040	725
25	784	1420	1290	6550	11000	2010	1250	1660	1890	951	909	714
26	769	1260	1250	27600	7940	1900	1220	1450	1650	930	864	709
27	754	1160	1250	57200	5600	1800	1210	1340	1450	910	882	710
28	743	1160	1240	41200	4120	1730	1820	1650	1230	891	839	707
29	736	1340	1250	20400	---	1690	3790	3760	1150	877	805	703
30	729	1260	1530	11400	---	1960	4880	4360	1110	867	788	703
31	725	---	2590	8870	---	2540	---	2550	---	856	783	---
TOTAL	25940	41234	85428	297490	245120	131140	53750	91160	101680	32179	27172	23109
MEAN	837	1374	2756	9596	8754	4230	1792	2941	3389	1038	877	770
MAX	1270	2730	10400	57200	23700	10300	4880	12400	24700	1390	1140	874
MIN	725	714	948	1910	4120	1690	1210	1230	1110	856	765	703
CFSM	.69	1.13	2.27	7.91	7.22	3.49	1.48	2.42	2.79	.86	.72	.64
IN.	.80	1.26	2.62	9.12	7.52	4.02	1.65	2.80	3.12	.99	.83	.71

CAL YR 1989	TOTAL	785921	MEAN	2153	MAX	18400	MIN	650	CFSM	1.78	IN.	24.10
WTR YR 1990	TOTAL	1155402	MEAN	3165	MAX	57200	MIN	703	CFSM	2.61	IN.	35.43

e Estimated.

PEARL RIVER BASIN

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02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	3.42	4.50	9.17	10.06	8.18	7.10	9.19	8.87	4.77	4.18	3.91
2	---	3.56	4.48	9.99	9.55	8.31	6.68	8.71	13.21	4.69	4.51	3.89
3	---	3.62	4.30	9.82	8.90	9.88	6.41	7.05	11.66	4.68	4.85	3.99
4	---	3.57	4.15	9.08	9.01	10.85	6.29	5.98	10.45	4.75	4.58	4.09
5	---	3.49	4.05	8.66	10.09	10.51	6.13	5.62	9.75	4.72	4.38	4.03
6	---	3.46	4.03	9.26	10.33	10.09	5.94	5.40	8.75	4.72	4.38	4.13
7	---	3.73	5.00	9.60	9.90	9.21	5.80	5.24	7.54	4.63	4.30	3.91
8	---	5.71	8.09	10.19	9.57	8.31	5.68	5.14	6.80	4.56	4.32	3.85
9	---	6.67	9.91	10.81	9.00	7.93	5.58	5.45	6.57	4.55	4.18	3.84
10	---	5.88	10.89	10.76	9.15	9.03	5.55	6.28	6.52	4.68	4.11	3.83
11	3.60	5.51	10.57	10.28	9.91	8.42	6.04	5.96	6.14	4.72	4.08	3.85
12	3.58	4.82	10.38	9.51	10.61	7.56	6.45	5.97	6.81	5.01	4.04	3.97
13	3.55	4.37	9.63	8.12	10.35	7.14	6.25	6.02	6.16	4.97	4.01	4.18
14	3.54	4.95	8.82	7.08	9.76	6.92	6.09	7.03	5.73	5.41	3.99	4.16
15	3.53	7.25	7.85	6.55	9.08	7.01	6.38	8.97	5.64	5.42	3.97	4.19
16	3.55	7.37	6.90	6.26	9.26	8.86	6.75	10.54	5.39	4.95	3.95	4.03
17	3.64	6.95	6.23	6.06	9.93	10.86	6.14	11.29	5.23	4.76	3.93	4.05
18	4.12	5.77	5.74	6.09	11.51	10.86	5.83	9.77	5.13	4.71	3.91	3.98
19	4.79	5.00	5.62	7.22	13.08	10.06	5.58	7.87	5.24	4.63	3.90	3.90
20	4.27	4.63	5.81	8.73	12.76	9.11	5.43	6.87	5.69	4.54	3.95	3.85
21	4.24	4.38	5.75	9.50	11.54	8.11	5.35	6.28	5.34	4.49	4.22	3.82
22	3.93	4.29	5.67	9.99	10.83	7.47	5.30	6.30	5.09	4.46	4.32	3.81
23	3.76	4.72	5.36	10.01	11.41	7.09	5.28	6.79	5.33	4.43	4.55	3.84
24	3.67	5.52	5.04	9.42	11.79	6.82	5.23	6.58	6.87	4.41	4.61	3.79
25	3.61	5.11	4.82	9.82	11.02	6.61	5.19	6.03	6.41	4.41	4.28	3.76
26	3.57	4.76	4.75	13.51	10.30	6.44	5.12	5.62	5.98	4.36	4.16	3.75
27	3.53	4.53	4.73	17.06	9.50	6.29	5.10	5.38	5.58	4.30	4.21	3.75
28	3.50	4.53	4.71	15.31	8.67	6.16	6.22	5.93	5.13	4.25	4.10	3.74
29	3.48	4.93	4.74	12.59	---	6.10	8.43	8.40	4.93	4.21	4.01	3.73
30	3.46	4.77	5.31	11.10	---	6.52	9.17	8.83	4.85	4.19	3.96	3.73
31	3.45	---	7.08	10.54	---	7.33	---	7.30	---	4.16	3.95	---
MAX	---	7.37	10.89	17.06	13.08	10.86	9.17	11.29	13.21	5.42	4.85	4.19
MIN	---	3.42	4.03	6.06	8.67	6.10	5.10	5.14	4.85	4.16	3.90	3.73

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-55, 1965-68, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: October 1974 to September 1981.

INSTRUMENTATION.--Water-quality monitor October 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 402 micromhos July 11, 1976; minimum, 13 micromhos Feb. 10, 1981.

WATER TEMPERATURES: Maximum, 33.0 °C June 26, 1977, July 24, 25, 1981; minimum, 5.0 °C Jan. 19, 20, 1977, Jan. 20, 21, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
OCT 16...	1700	42	6.93	23.5	20	4.6	8.2	0.3	68	54	9
DEC 14...	1030	39	6.42	9.5	60	24	9.5	1.7	--	540	8
FEB 07...	0900	34	6.69	14.0	50	28	10.1	6.5	1400	720	8
APR 03...	1315	40	6.69	19.0	--	10	8.5	0.5	200	110	9
JUN 13...	1015	42	6.79	28.0	20	13	7.6	1.3	200	390	8
AUG 28...	1020	40	7.07	30.0	10	7.1	6.9	1.2	K44	K60	9

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 16...	2.0	0.87	4.0	1.2	10	1.0	6.1	<0.1	11	32
DEC 14...	1.7	0.85	3.0	1.6	6	3.0	5.8	<0.1	9.0	32
FEB 07...	1.7	0.80	2.4	1.5	7	3.0	3.3	0.1	7.8	27
APR 03...	2.0	0.94	3.6	1.2	8	1.8	5.4	0.1	9.7	36
JUN 13...	2.0	0.82	3.2	1.3	9	1.5	5.0	0.2	10	35
AUG 28...	2.0	0.85	3.6	3.4	10	<1.0	5.8	<0.1	8.8	27

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 16...	32	<0.01	0.16	0.02	0.02	0.3	0.03	0.02	0.02
DEC 14...	28	<0.01	0.29	0.07	0.05	0.3	0.06	<0.01	0.02
FEB 07...	25	<0.01	0.22	0.06	0.04	0.4	0.08	0.04	0.01
APR 03...	29	<0.01	0.30	<0.01	0.01	0.3	0.05	0.01	<0.01
JUN 13...	30	<0.01	0.30	0.04	0.03	0.4	0.07	0.03	0.02
AUG 28...	--	<0.01	0.20	0.02	0.01	<0.2	0.04	<0.01	<0.01

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)
OCT 16...	20	<1	23	<0.5	<1	<1	<3	1	220	3
FEB 07...	150	<1	30	<0.5	2	<1	<3	2	290	1
APR 03...	90	1	30	<0.5	<1	<1	<3	1	280	1
AUG 28...	70	<1	24	<0.5	<1	1	<3	1	230	1

DATE	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)
OCT 16...	<4	30	<0.1	<10	1	<1	<1	21	<6	7
FEB 07...	<4	30	<0.1	<10	2	<1	<1	19	<6	5
APR 03...	<4	53	<0.1	<10	1	<1	<1	20	<6	13
AUG 28...	<4	45	<0.1	<10	1	<1	<1	21	<6	5

DATE	DIS- CHARGE, IN CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 16...	762	43	88	69
DEC 14...	4340	59	691	95
FEB 07...	6580	49	870	97
APR 03...	1880	23	117	98
JUN 13...	1740	41	193	98
AUG 28...	839	20	45	96

< Actual value is known to be less than the value shown.

PEARL RIVER BASIN

02492600 PEARL RIVER AT PEARL RIVER, LA

LOCATION.--Lat 30°23'06", long 89°44'12", in NW 1/4 NW 1/4 sec.6, T.8 S., R.15 E., St. Helena Meridian, St. Tammany Parish, Hydrologic Unit 03180004, on left bank on downstream side of Norfolk and Southern Railroad bridge over West Pearl River, 700 ft upstream from Interstate Highway 59, and 0.8 mi northeast of town of Pearl River.

DRAINAGE AREA.--8,494 mi², includes East Pearl River.

PERIOD OF RECORD.--October 1963 to September 1970. October 1975 to current year (gage heights and discharge measurements only). Daily discharge records October 1961 to September 1963 and gage heights only October 1970 to September 1975 in files of Corps of Engineers, Mobile District. Gage-height records since June 1906 are in reports of National Weather Service and gage-height records October 1899 to May 1906 (collected by Southern Railway System) are in files of National Weather Service, Meridian, Miss.

REVISED RECORDS.--WDR LA-1981-2: 1980(M): Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.05 ft below National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers, Mobile District). Prior to September 1970, supplemental gage located on East Pearl River at different datum for the determination of daily mean discharge for the entire flood plain.

REMARKS.--Records of daily discharge are the combined flow of the entire flood plain of the West and East Pearl Rivers. Records since October 1975 represent stages for the West Pearl River only.

AVERAGE DISCHARGE.--7 years (water years 1964-70) 9,470 ft³/s, 14.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 230,000 ft³/s, Apr. 9, 1983, gage height, 21.05 ft; minimum daily discharge, 1,580 ft³/s, Oct. 24, Nov. 10, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed since October 1899 is that of Apr. 9, 1983. Flood of 1874 reached a stage of 20.2 ft, furnished by Corps of Engineers. Southern Railway System reported a stage of 19.7 ft, Apr. 19, 1900.

EXTREMES FOR CURRENT YEAR.--Maximum gage height from floodmark, 19.60 ft, Jan. 30, but may have been higher during periods of no gage-height record; minimum gage height observed, 3.17 ft, Sept. 26, 27, but may have been lower during periods of no gage-height record.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	16.53	11.25	9.13	10.15	6.88	5.06	4.39
2	---	---	---	---	17.22	16.45	11.01	10.25	10.56	6.74	5.05	4.37
3	---	---	---	---	---	16.37	10.69	10.97	13.42	6.52	5.17	4.38
4	---	---	---	---	---	16.35	10.47	11.10	14.33	6.31	5.30	4.36
5	---	---	10.05	---	---	16.36	10.26	10.93	14.40	6.18	5.22	4.36
6	---	---	---	---	16.76	16.23	10.03	10.85	14.38	6.11	5.31	4.38
7	---	---	---	---	---	16.03	9.93	10.74	14.10	6.10	5.42	4.31
8	---	---	---	---	---	15.78	10.01	9.95	13.87	6.09	5.32	4.16
9	---	---	---	---	---	15.54	10.06	9.46	13.02	6.10	5.13	4.08
10	---	---	---	---	---	15.53	10.11	9.11	12.50	5.97	4.91	4.06
11	6.02	---	---	---	---	15.34	10.15	8.94	12.08	5.96	4.77	4.12
12	5.66	---	---	---	---	15.05	10.10	8.75	11.34	6.41	4.68	4.47
13	---	---	---	---	---	14.72	10.00	9.38	10.79	6.68	4.61	4.71
14	---	---	---	---	---	14.45	9.88	10.30	10.58	6.44	4.54	4.75
15	---	---	---	---	---	14.31	9.88	10.90	10.48	6.41	4.51	4.81
16	---	---	---	14.87	---	14.66	9.92	12.22	10.21	6.48	4.47	4.86
17	4.95	---	---	---	---	14.99	10.11	13.64	9.57	6.59	4.45	4.87
18	---	---	---	---	---	15.36	9.96	14.96	8.75	6.72	4.40	4.75
19	---	---	---	---	---	15.44	9.66	15.49	8.05	7.01	4.33	4.56
20	---	---	---	---	---	15.07	9.44	15.42	7.85	6.99	4.30	4.36
21	---	---	10.06	---	18.07	14.51	9.10	15.15	7.88	6.71	4.35	4.23
22	---	---	---	---	---	13.86	8.73	14.84	7.72	6.34	4.49	4.15
23	---	---	---	15.64	---	13.32	8.61	13.23	7.78	6.11	4.60	4.04
24	---	---	---	---	---	12.95	8.39	11.74	7.93	5.87	4.63	3.74
25	---	---	---	---	---	12.69	8.15	10.83	8.36	5.69	4.81	3.86
26	---	---	---	---	---	12.46	7.88	10.27	8.50	5.61	5.05	3.76
27	---	---	---	---	16.83	12.23	7.66	9.92	8.45	5.59	5.10	3.70
28	---	---	---	---	16.67	11.98	7.75	9.63	8.10	5.56	5.09	3.83
29	---	---	8.70	---	---	11.72	8.19	9.58	7.51	5.42	4.81	3.93
30	---	---	---	---	---	11.57	8.66	10.08	7.09	5.30	4.52	4.14
31	---	---	---	---	---	11.47	---	10.40	---	5.19	4.42	---
MAX	---	---	---	---	---	16.53	11.25	15.49	14.40	7.01	5.42	4.87
MIN	---	---	---	---	---	11.47	7.66	8.75	7.09	5.19	4.30	3.70

07295100 MISSISSIPPI RIVER AT TARBERT LANDING, MS

LOCATION.--Lat 31°00'30", long 91°37'25", in lot 6, T.1 N., R.5 W., Wilkinson County, Hydrologic Unit 08060100, near left bank at Tarbert Landing, 2.5 mi upstream from Lower Old River, 8.2 mi downstream from inlet channel to Old River Control Structure, and at river mile 306.3.

DRAINAGE AREA.--1,124,900 mi², contributing.

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to current year.

REMARKS.--Records for the 1990 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

COOPERATION.--Samples for suspended-sediment analysis are collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 01100.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 2,490,000 tons Jan. 14, 1985; minimum daily, 18,000 tons Aug. 14, 15, 17, 18, 1988.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
13...	1115	144000	178	69200	77
24...	1115	141000	103	39000	98
NOV					
09...	1115	138000	129	47900	100
21...	1115	215000	241	140000	100
DEC					
05...	1115	573000	246	381000	95
22...	1115	252000	165	112000	97
JAN					
05...	1115	583000	282	443000	94
19...	1115	609000	322	530000	99
FEB					
02...	1115	650000	182	320000	94
13...	1115	624000	207	349000	94
27...	1115	972000	240	630000	94
MAR					
16...	1115	1114000	164	492000	91
30...	1115	809000	128	279000	97
APR					
10...	1115	891000	168	404000	98
27...	1115	749000	122	246000	97
MAY					
08...	1115	475000	264	339000	86
22...	1115	671000	168	304000	98
JUN					
07...	1115	605000	172	281000	99
22...	1115	670000	195	353000	100
JUL					
07...	1115	825000	143	319000	94
20...	1115	626000	136	230000	100
31...	1115	448000	123	148000	100
AUG					
17...	1115	290000	73	57300	99
31...	1115	253000	91	62300	96
SEP					
18...	1115	323000	140	122000	99

LOWER MISSISSIPPI RIVER BASIN

07295100 MISSISSIPPI RIVER AT TARBERT LANDING, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61000	48000	392000	235000	346000	626000	290000	228000	303000	347000	143000	66000
2	65000	48000	402000	287000	319000	627000	298000	225000	281000	355000	136000	72000
3	70000	49000	411000	349000	292000	628000	310000	223000	277000	346000	126000	77000
4	73000	51000	400000	395000	268000	627000	324000	232000	272000	340000	117000	80000
5	72000	51000	380000	443000	260000	622000	336000	243000	278000	333000	111000	83000
6	73000	50000	339000	471000	256000	614000	347000	265000	279000	327000	106000	86000
7	75000	50000	308000	477000	255000	609000	359000	294000	281000	318000	101000	88000
8	78000	47000	287000	478000	267000	599000	372000	338000	293000	317000	96000	89000
9	78000	48000	268000	473000	280000	590000	388000	337000	298000	316000	91000	91000
10	77000	50000	249000	462000	293000	577000	404000	334000	298000	311000	85000	95000
11	74000	53000	235000	442000	307000	569000	401000	334000	295000	305000	80000	99000
12	71000	56000	221000	428000	328000	554000	397000	332000	291000	296000	75000	102000
13	69000	60000	204000	435000	348000	540000	394000	324000	290000	292000	72000	105000
14	63000	67000	189000	453000	350000	521000	391000	317000	289000	287000	68000	105000
15	59000	77000	175000	473000	348000	506000	389000	304000	288000	278000	65000	105000
16	59000	90000	162000	491000	344000	493000	387000	315000	287000	270000	61000	107000
17	56000	100000	150000	509000	344000	482000	382000	312000	295000	262000	57000	113000
18	52000	108000	142000	522000	391000	469000	379000	335000	310000	247000	56000	122000
19	49000	116000	135000	529000	420000	455000	369000	336000	324000	241000	54000	125000
20	45000	128000	127000	535000	461000	443000	364000	325000	331000	231000	52000	129000
21	43000	140000	119000	538000	510000	432000	356000	315000	344000	220000	50000	129000
22	40000	141000	112000	544000	549000	419000	346000	304000	352000	212000	50000	131000
23	39000	158000	109000	542000	563000	407000	335000	311000	351000	203000	50000	128000
24	39000	197000	114000	533000	583000	383000	311000	316000	353000	194000	51000	126000
25	41000	227000	111000	520000	599000	361000	288000	320000	353000	185000	52000	124000
26	43000	251000	108000	506000	612000	329000	269000	322000	347000	175000	53000	119000
27	46000	281000	109000	488000	629000	314000	246000	322000	351000	166000	54000	110000
28	47000	314000	114000	472000	622000	298000	244000	321000	360000	166000	56000	103000
29	47000	345000	120000	450000	---	290000	239000	316000	358000	160000	57000	96000
30	47000	374000	149000	421000	---	279000	229000	311000	352000	153000	60000	90000
31	48000	---	178000	385000	---	283000	---	308000	---	149000	62000	---
TOTAL	1799000	3775000	6519000	14286000	11144000	14946000	10144000	9419000	9381000	8002000	2347000	3095000
MEAN	58000	126000	210000	461000	398000	482000	338000	304000	313000	258000	75700	103000
MAX	78000	374000	411000	544000	629000	628000	404000	338000	360000	355000	143000	131000
MIN	39000	47000	108000	235000	255000	279000	229000	223000	272000	149000	50000	66000
WTR YR 1989	TOTAL	94857000	MEAN	260000	MAX	629000	MIN	39000				

07337000 RED RIVER AT INDEX, AR
(National stream-quality accounting network station)

LOCATION.--Lat 33°33'07", long 94°02'28", in NW1/4SW1/4 sec.7, T.14 S., R.28 W., Miller County, Hydrologic Unit 11140106, near right bank on downstream side of southbound bridge on U.S. Highway 71 at Index, 2.2 mi south of Ogden, 20.6 mi upstream from Little River, and at mile 485.3.

DRAINAGE AREA.--48,030 mi², of which 5,936 mi² is probably noncontributing.

PERIOD OF RECORD.--July 1936 to current year. Gage-height records collected at same site since 1917 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.87 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1939, nonrecording gage, and Dec. 12, 1939, to July 19, 1979, water-stage recorder, at site 500 ft downstream at present datum.

REMARKS.--No estimated daily discharges. Water-discharge records good. Some regulation since Oct. 31, 1943, by Lake Texoma (Texas), 241 mi upstream, capacity, 5,392,900 acre-ft, since Sept. 28, 1967, by Pat Mayse Lake (Texas), capacity, 352,700 acre-ft, and since Jan. 18, 1974, by Hugo Lake (Oklahoma) capacity, 966,700 acre-ft Satellite telemeter at station.

AVERAGE DISCHARGE.--54 years, 12,470 ft³/s, 9,035,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 297,000 ft³/s Feb. 23, 1938, gage height, 34.25 ft; minimum, 378 ft³/s Nov. 28, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 270,000 ft³/s May 10, gage height, 32.30 ft, from graph based on gage readings; minimum daily, 1,380 ft³/s Jan. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12200	3180	2240	2340	18600	15600	61400	63800	61100	30300	11000	3930
2	12300	3160	2250	2180	28900	13700	50100	65900	62100	26100	11300	4020
3	12100	3170	2350	1950	46100	13600	49000	76000	64600	24100	11300	4100
4	11900	3140	2790	1830	52100	13900	55100	95300	84900	23000	11200	4110
5	11400	3230	3130	1740	44600	15300	61000	121000	87000	20000	13200	4110
6	10800	3490	3210	1710	37200	16500	69900	160000	74000	13500	17900	4260
7	10700	3510	3240	1670	34600	17000	75400	197000	62500	10300	18000	4450
8	10500	3510	3200	1630	32400	33500	77500	229000	59900	7420	15300	4350
9	8980	3390	3260	1600	30000	57300	73600	264000	59500	6530	11600	4190
10	7110	2900	3170	1550	28200	57200	65300	268000	59100	5930	9150	4040
11	5740	2500	2680	1520	27400	46400	62600	264000	58700	5450	8420	4010
12	5170	2910	2260	1470	27100	37300	61900	245000	58200	5120	7890	3930
13	4040	3220	2070	1430	26800	40300	62000	212000	57800	4920	6780	4060
14	3720	3320	2030	1410	26500	51100	63500	174000	57600	5070	6280	4090
15	4490	3320	2020	1390	26000	54400	62800	145000	55400	5080	6480	3810
16	4660	3260	1990	1380	24800	58900	60700	123000	53800	5320	7390	3660
17	4690	2910	2010	1460	28900	63900	54900	101000	56200	5250	7810	3460
18	4690	2610	2200	1760	32200	61900	52100	77700	57000	5740	8030	3300
19	4440	2770	2560	3380	31300	58400	53800	73200	56600	5970	8750	3400
20	4450	3120	2530	11300	28300	56800	54400	72300	56200	5850	8280	4070
21	4510	3250	3440	25500	24800	57500	52600	70300	56000	5750	6650	3850
22	4660	3370	4140	31700	23200	58700	54300	67300	55500	4910	6020	3510
23	4780	3430	3850	32800	24700	59400	59400	65700	53500	4740	5530	4640
24	4580	3250	2960	28600	27200	59000	59100	64000	50800	4710	4890	8000
25	4430	2920	2790	26800	28800	58300	57200	63800	47400	4740	4660	12000
26	4070	2630	3190	28100	27800	58300	59300	63500	46700	5310	4650	16200
27	3270	2420	4830	28200	24900	59900	61000	64400	47100	6670	4570	17300
28	3130	2560	5820	25200	20000	63400	65600	67000	47300	8410	4480	16100
29	3590	2710	4530	23400	---	71600	74400	68600	43900	7940	4300	13800
30	3690	2500	3270	21800	---	82500	73800	65600	37600	8300	4010	11000
31	3290	---	2550	19300	---	80100	---	62300	---	10000	3850	---
TOTAL	198080	91660	92560	336100	833400	1491700	1843700	3749700	1728000	292430	259670	185750
MEAN	6390	3055	2986	10840	29760	48120	61460	121000	57600	9433	8376	6192
MAX	12300	3510	5820	32800	52100	82500	77500	268000	87000	30300	18000	17300
MIN	3130	2420	1990	1380	18600	13600	49000	62300	37600	4710	3850	3300
AC-FT	392900	181800	183600	666700	1653000	2959000	3657000	7438000	3427000	580000	515100	368400
CAL YR 1989	TOTAL 6095880		MEAN 16700		MAX 66900		MIN 1990		AC-FT 12090000			
WTR YR 1990	TOTAL 11102750		MEAN 30420		MAX 268000		MIN 1380		AC-FT 22020000			

LOCATION.--Lat 32°53'35", long 93°49'20", in SW 1/4 sec.16, T.22 N., R.14 W., Bossier-Caddo Parish line, Hydro-logic Unit 11140202, near left bank on downstream side of bridge on State Highway 2, 1.8 mi downstream from Dry Bayou, and 3.2 mi east of Hosston.

REMARKS.--No daily discharges published above 5,000 ft³/s. No estimated daily discharges. Regulation since July 1942 by Lake Texoma (capacity, 5,392,000 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). Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 30.70 ft, May 15; minimum daily discharge, 2,500 ft³/s, Jan. 13.

[illegible]

RED RIVER BASIN

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07344400 RED RIVER NEAR HOSSTON, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.10	2.70	1.64	2.32	11.00	10.50	19.48	18.45	20.56	13.73	7.44	4.24
2	5.11	2.46	1.65	1.95	11.50	9.56	18.00	18.30	20.20	12.90	7.89	3.88
3	5.08	2.34	1.44	1.78	13.08	8.88	16.62	18.05	19.80	11.88	8.18	3.58
4	5.10	2.34	1.42	1.60	14.92	8.18	16.22	18.55	20.50	11.10	8.24	3.32
5	5.07	2.35	1.56	1.54	15.60	7.92	16.96	19.60	21.56	10.40	8.21	3.10
6	4.98	2.36	1.64	1.38	15.30	7.56	18.50	20.55	22.25	9.72	8.30	2.94
7	4.90	2.40	1.78	1.25	14.30	7.58	19.97	21.76	22.20	9.09	8.70	2.88
8	4.81	2.44	1.92	1.10	13.90	10.20	20.75	23.00	21.50	8.45	9.00	2.90
9	4.76	2.54	1.92	1.08	13.82	14.82	21.10	24.45	20.54	7.86	9.14	2.94
10	4.68	2.48	1.82	.96	13.86	17.40	20.89	25.80	19.70	7.42	8.65	2.95
11	4.20	2.40	1.90	.95	13.76	18.37	20.40	27.30	19.30	7.20	8.00	2.95
12	3.90	2.15	1.88	.92	13.62	17.78	19.50	28.75	18.90	6.97	7.57	2.95
13	3.68	1.92	1.58	.86	13.48	16.28	18.90	29.96	18.55	6.72	7.41	2.96
14	3.44	1.88	1.42	.88	13.40	16.10	18.60	30.58	18.32	6.62	7.18	3.20
15	3.18	1.98	1.38	.88	13.38	17.58	18.48	30.60	18.20	6.59	6.72	3.11
16	3.10	2.00	1.30	.90	12.96	17.40	18.30	29.87	17.78	6.54	6.59	2.88
17	3.10	2.02	1.28	1.15	12.45	17.85	18.00	28.65	17.00	6.49	6.56	2.65
18	3.12	2.00	1.18	1.92	11.90	18.26	17.34	26.90	16.81	6.57	6.60	2.50
19	3.05	1.98	1.16	3.00	12.35	18.05	16.34	24.90	17.10	6.56	6.72	2.46
20	2.90	1.82	1.22	3.70	12.70	17.58	16.05	23.80	17.38	6.65	6.80	2.48
21	2.95	1.75	1.20	4.62	12.34	17.46	16.07	23.20	17.36	6.63	6.90	2.45
22	2.88	1.88	1.24	7.28	12.10	17.52	16.15	22.75	17.28	6.64	6.62	2.66
23	2.80	1.96	1.60	9.46	11.95	17.72	16.30	22.45	17.18	6.57	6.35	2.56
24	2.82	2.02	1.50	10.42	12.08	17.86	16.68	22.10	16.50	6.45	6.08	2.48
25	2.80	2.02	1.44	11.15	12.30	17.76	16.82	21.95	15.90	6.48	5.82	3.02
26	2.78	2.00	1.80	11.12	12.40	17.72	17.18	21.80	15.50	6.52	5.58	3.99
27	2.80	1.88	2.00	11.16	11.92	17.70	17.36	21.80	15.26	6.49	5.38	5.40
28	2.82	1.70	1.98	11.26	11.38	17.84	17.55	21.82	15.10	6.65	5.29	6.80
29	2.68	1.56	2.26	11.20	---	18.40	17.85	21.60	14.98	6.86	5.11	6.86
30	2.52	1.56	2.46	11.08	---	19.28	18.45	21.25	14.53	7.13	4.89	6.80
31	2.65	---	2.58	11.00	---	19.85	---	20.90	---	7.19	4.59	---
MAX	5.11	2.70	2.58	11.26	15.60	19.85	21.10	30.60	22.25	13.73	9.14	6.86
MIN	2.52	1.56	1.16	.86	11.00	7.56	16.05	18.05	14.53	6.45	4.59	2.45

07344410 RED RIVER ABOVE SHREVEPORT, LA (CE 04225)

LOCATION.--Lat 32°32'57", long 93°45'51", in lot 14, T.18 N., R.14 W., Caddo Parish, Hydrologic Unit 11140202, near right bank, 2.7 mi northeast of Shreveport Courthouse, 4.9 mi upstream from mouth of Cross Bayou, 5.4 mi upstream from gaging station at Illinois Central Railroad bridge at Shreveport (Station 07348500), and at mile 282.5.

DRAINAGE AREA.--57,100 mi², approximately, of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1974-84, 1986 to current year.

REMARKS.--Water-quality samples are non-integrated.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1975, October 1976 to September 1977.

WATER TEMPERATURES: October 1974 to September 1975, October 1976 to September 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,880 micromhos June 5, 6, 1977; minimum daily, 163 micromhos Mar. 17, 1977.

WATER TEMPERATURES: Maximum daily, 32.0 °C July 25, 1977; minimum daily, 4.5 °C Jan. 19, 1977.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 2.5 °C was observed Jan. 15, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT										
25...	1300	1060	8.01	20.0	50	94	8.8	57	1.9	100
NOV										
16...	1000	1040	8.22	15.5	30	6.5	10.4	30	--	K140
DEC										
07...	0900	951	8.09	12.0	50	16	10.9	60	3.9	440
JAN										
24...	1300	314	7.63	12.0	80	300	10.0	79	4.6	K700
FEB										
28...	1400	341	7.39	13.0	100	--	10.2	40	5.5	560
MAR										
15...	1330	283	7.37	17.0	80	--	8.6	110	2.3	480
APR										
11...	1545	447	7.79	16.0	30	--	8.9	42	1.7	540
MAY										
17...	1330	498	7.71	23.0	10	200	6.7	44	1.2	1400
JUN										
20...	1245	375	7.63	28.5	40	--	7.2	38	2.2	K250
JUL										
11...	1330	344	7.47	29.5	30	--	6.6	37	2.0	1700
AUG										
29...	1415	417	7.52	31.5	15	33	7.7	52	2.1	100
SEP										
27...	1330	857	7.98	25.0	30	25	10.2	15	5.0	460

K Results based on colony count outside the acceptable range (non-ideal colony count).

07344410 RED RIVER ABOVE SHREVEPORT, LA (CE 04225)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCHI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS-SOLVED (MG/L AS S04)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 25...	K4	K32	270	73	22	110	5.7	186	130	150
NOV 16...	K56	K26	310	82	25	99	5.4	206	130	130
DEC 07...	K28	K4	270	70	24	86	4.9	222	96	110
JAN 24...	620	580	90	26	6.1	19	3.0	98	24	22
FEB 28...	210	--	88	26	5.5	27	2.7	62	37	38
MAR 15...	120	180	86	27	4.4	21	2.6	66	24	29
APR 11...	200	240	120	34	7.9	35	2.9	73	57	54
MAY 17...	160	K3200	160	44	11	47	4.3	115	60	70
JUN 20...	K90	76	110	32	6.6	28	2.7	83	39	41
JUL 11...	170	40	110	33	6.4	23	3.1	94	29	34
AUG 29...	58	50	130	38	8.1	31	3.4	109	39	37
SEP 27...	84	360	230	64	18	90	4.4	188	95	110

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	635	152	0.08	0.08	1.0	1.1	0.19	0.27	7.8
NOV 16...	613	10	<0.01	<0.02	0.65	--	0.09	0.04	8.2
DEC 07...	563	26	<0.01	<0.02	0.95	--	0.10	0.04	10
JAN 24...	164	865	0.05	0.45	2.2	2.6	0.73	0.12	16
FEB 28...	196	188	0.04	0.23	0.94	1.2	0.19	0.12	9.4
MAR 15...	166	460	0.04	0.17	1.1	1.3	0.34	0.12	5.8
APR 11...	263	304	<0.01	0.24	1.2	1.4	0.31	0.04	10
MAY 17...	301	464	0.07	0.28	1.1	1.4	0.38	0.24	7.8
JUN 20...	209	447	0.04	0.22	0.88	1.1	0.29	0.14	7.5
JUL 11...	188	149	0.03	0.12	1.0	1.1	0.18	0.12	7.8
AUG 29...	234	76	0.01	0.03	0.90	0.93	0.14	0.06	8.9
SEP 27...	509	52	0.01	0.03	0.85	0.88	0.12	0.08	2.0

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07344410 RED RIVER ABOVE SHREVEPORT, LA (CE 04225)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 25...	4	<10	<1	<10	4	3300	8	240
JAN 24...	7	<10	<1	20	12	17000	12	790
APR 11...	4	<10	<1	10	7	7600	6	220
JUL 11...	3	<10	<1	5	5	3400	5	200

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 25...	<0.1	7	<1	10	<0.01	3	<1
JAN 24...	<0.1	20	<1	60	<0.01	<1	1
APR 11...	<0.1	10	<1	30	<0.01	9	<1
JUL 11...	<0.1	4	<1	30	<0.01	<1	<1

DATE	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)
OCT 25...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 07...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 28...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 11...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 20...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 29...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	ENDRIN, TOTAL (µG/L)	ETHION. TOTAL (µG/L)	HEPTA- CHLOR. TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)
OCT 25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 07...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 28...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 11...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 29...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

07344410 RED RIVER ABOVE SHREVEPORT, LA (CE 04225)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	MIREX. TOTAL (µG/L)	PARA- THION. TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE. TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)
OCT									
25...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
DEC									
07...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
FEB									
28...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
APR									
11...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
JUN									
20...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
AUG									
29...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1

< Actual value is known to be less than the value shown.

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°38'45", long 93°52'40", in NW 1/4 NW 1/4 sec.14, T.19 N., R.15 W., Caddo Parish, Hydrologic Unit 11140304, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mi downstream from Cottonwood Bayou, 4.2 mi southwest of Dixie, 5.5 mi downstream from Caddo Lake, and 17.3 mi upstream from mouth.

DRAINAGE AREA.--3,137 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 136.12 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 5, 1947, nonrecording gage and Sept. 5, 1947, to June 26, 1978, water-stage recorder at present site. Oct. 1, 1950, to June 26, 1978, at datum 3.88 ft higher and prior to Oct. 1, 1950, at datum 5.88 ft higher.

Nonrecording gage for Twelvemile Bayou near Mooringsport (station 07347950) used as supplementary gage June 27, 1978, to May 7, 1981. Datum of supplementary gage, 140.00 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Water-stage recorder for Twelvemile Bayou below Dixie (station 07348010) used as auxiliary gage for this station. Prior to May 7, 1981, nonrecording gage for Red River at Shreveport (station 07348500) used as auxiliary gage.

REMARKS.--Estimated daily discharges. No base gage height: Feb. 16-27, Apr. 7-23; no auxiliary gage height: Jan. 18-21, Mar. 3, 4, 18, Apr. 28, 29, May 5, 6, 12, 13, 19, 20, 26, 27, June 2, 3, 8-10, 15-17, 22-24, June 29 to July 1; July 4, 5, 7, 8, 14, 15, 20-22, 28, 29, Aug. 4-13, and Aug. 30 to Sept. 13. Records fair. Flow regulated by three reservoirs (combined usable capacity, 1,033,700 acre-ft of which 587,0200 acre-ft are available for storage) since August 1957. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 2,564 ft³/s, 1,858,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,400 ft³/s, May 5, 1958; maximum daily reverse flow, 50 ft³/s, Aug. 5, 1975 (backwater from Red River); maximum gage height, 41.53 ft, Apr. 5, 1945, and May 5, 1958, present datum; minimum discharge (unaffected by backwater), 0.08 ft³/s, Aug. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,700 ft³/s, Mar. 13, gage height, 32.20 ft; minimum daily discharge, 12 ft³/s, Sept. 8-9, 23-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	28	68	578	6030	3780	10200	5950	3960	e1600	670	e17
2	292	27	67	575	8800	3450	9750	3880	e4000	1460	837	e15
3	326	27	59	604	10900	e3200	9040	1690	e4200	1150	900	e15
4	282	30	59	933	11800	e3000	8550	2350	e4500	e900	e1000	e13
5	328	35	64	950	11200	2910	8430	e3500	5450	e750	e1100	e13
6	380	33	62	973	10700	2560	10000	e4500	6320	822	e1200	e13
7	331	30	34	975	9120	e2400	e10500	4650	5620	e860	e1250	e13
8	353	27	74	929	8280	2710	e1100	4580	e5300	e840	e1300	e12
9	315	23	99	924	8380	9270	e11400	4270	e5000	838	e1350	e12
10	273	17	92	869	10100	13100	e11500	4480	e4500	508	e1200	e17
11	232	19	85	832	9910	15200	e11400	4180	3840	463	e1000	e23
12	190	22	107	828	8810	16800	e11200	e8000	4560	437	e900	e23
13	157	25	122	681	7810	17600	e11000	e7600	4390	432	e750	e23
14	134	25	98	639	7400	17500	e10800	7000	3770	e380	647	25
15	99	101	79	616	7010	17200	e10400	6870	e3700	e320	513	30
16	102	57	54	560	e6800	15800	e10200	5670	e3400	289	311	28
17	141	22	43	670	e6200	14800	e1000	5360	e3200	326	222	25
18	72	16	52	e1700	e5800	e13500	e9800	5270	3280	418	264	23
19	114	15	84	e2900	e5500	12400	e9600	e5000	3010	401	235	23
20	57	18	85	e4300	e5200	9940	e9400	e4500	2730	e410	316	20
21	39	18	79	e5000	e5000	7320	e9200	3830	2590	e415	395	23
22	37	41	54	5470	e6000	5970	e9000	2470	e1800	e410	436	17
23	33	51	110	5390	e5500	5900	e8600	2180	e1700	408	324	12
24	29	34	105	5000	e5000	6290	8250	2170	e1900	394	238	12
25	27	47	113	5520	e4600	6470	7680	1890	2080	398	218	12
26	26	59	137	4820	e4200	7150	7170	e1700	2590	402	189	12
27	25	100	131	5010	e3900	7990	6610	e1500	2570	391	139	12
28	24	91	133	5030	3640	8220	e6400	2190	2250	e390	94	266
29	25	50	140	6660	---	6850	e6500	2430	e2200	e450	66	589
30	47	55	253	6730	---	8790	6580	2070	e1900	617	e340	608
31	50	---	569	6170	---	9370	---	3600	---	658	e18	---
TOTAL	4822	1143	3311	82836	203590	277440	261260	125330	107260	18537	18422	1946
MEAN	156	38.1	107	2672	7271	8950	8709	4043	3575	598	594	64.9
MAX	380	101	569	6730	11800	17600	11500	8000	6320	1600	1350	608
MIN	24	15	34	560	3640	2400	1000	1500	1700	289	18	12
AC-FT	9560	2270	6570	164300	403800	550300	518200	248600	212800	36770	36540	3860
CAL YR 1989	TOTAL 1581987		MEAN 4334		MAX 26800		MIN 15		AC-FT 3138000			
WTR YR 1990	TOTAL 1105897		MEAN 3030		MAX 17600		MIN 12		AC-FT 2194000			

e Estimated.

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.63	4.61	4.77	6.57	17.98	14.69	26.25	22.97	24.15	15.53	6.97	4.63
2	5.66	4.61	4.77	6.56	21.82	14.26	25.79	22.47	24.39	14.51	7.42	4.62
3	5.77	4.61	4.74	6.65	24.46	13.58	24.82	21.98	23.87	13.46	8.17	4.62
4	5.62	4.62	4.74	7.71	26.09	12.87	23.90	22.52	24.04	11.95	8.21	4.61
5	5.78	4.64	4.75	7.79	26.15	12.20	23.45	22.91	24.67	10.96	8.17	4.61
6	5.95	4.63	4.74	7.85	25.44	11.63	24.49	23.35	25.30	10.54	8.44	4.61
7	5.78	4.62	4.64	7.83	24.10	12.04	---	23.76	25.48	9.78	8.49	4.61
8	5.85	4.61	4.79	7.73	22.90	16.94	---	24.33	25.19	8.95	9.21	4.60
9	5.72	4.59	4.88	7.73	22.22	22.18	---	25.28	24.55	8.20	9.39	4.60
10	5.57	4.56	4.86	7.56	23.32	28.06	---	26.46	23.81	7.55	8.98	4.63
11	5.41	4.57	4.84	7.45	23.20	30.78	---	27.67	23.06	7.12	8.28	4.66
12	5.25	4.59	4.90	7.40	22.35	31.81	---	29.23	22.54	6.84	7.63	4.66
13	5.11	4.60	4.95	6.98	21.39	32.15	---	30.76	22.02	6.67	7.22	4.66
14	4.99	4.60	4.88	6.83	20.39	32.02	---	31.70	21.58	6.33	7.03	4.67
15	4.89	4.90	4.81	6.73	19.95	31.81	---	31.98	21.29	6.18	6.66	4.69
16	4.89	4.73	4.71	6.53	---	31.17	---	31.65	20.95	6.07	6.26	4.68
17	5.03	4.59	4.67	6.93	---	30.27	---	31.00	20.30	6.12	6.12	4.67
18	4.79	4.56	4.71	9.67	---	29.04	---	29.81	19.74	6.30	6.22	4.66
19	4.93	4.55	4.83	11.99	---	27.41	---	28.14	19.65	6.29	6.32	4.66
20	4.73	4.57	4.84	14.53	---	25.61	---	26.42	19.67	6.29	6.37	4.65
21	4.65	4.57	4.81	15.51	---	24.23	---	25.15	19.57	6.34	6.46	4.66
22	4.65	4.66	4.72	16.04	---	23.46	---	24.38	19.46	6.31	6.51	4.63
23	4.63	4.70	4.93	16.57	---	23.08	---	23.87	19.20	6.34	6.20	4.60
24	4.62	4.63	4.92	17.24	---	22.89	23.40	23.48	18.78	6.29	5.84	4.60
25	4.61	4.68	4.93	18.05	---	22.52	23.01	23.22	18.08	6.27	5.58	4.60
26	4.60	4.73	5.00	17.50	---	22.19	22.65	23.01	18.17	6.29	5.30	4.60
27	4.60	4.89	4.97	17.32	---	21.82	22.37	22.97	17.83	6.28	5.07	4.60
28	4.60	4.86	4.98	17.55	15.05	21.57	22.81	23.23	17.33	6.27	4.94	5.57
29	4.60	4.70	5.01	19.06	---	22.05	22.91	23.41	16.89	6.44	4.83	6.59
30	4.69	4.72	5.48	19.07	---	25.09	22.95	23.33	16.45	6.82	4.70	6.65
31	4.70	---	6.55	18.35	---	26.07	---	23.91	---	6.94	4.64	---
MAX	5.95	4.90	6.55	19.07	---	32.15	---	31.98	25.48	15.53	9.39	6.65
MIN	4.60	4.55	4.64	6.53	---	11.63	---	21.98	16.45	6.07	4.64	4.60

RED RIVER BASIN

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1953-55, 1958-60, 1969-70, 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1978 to September 1981.

WATER TEMPERATURES: April 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,970 micromhos Oct. 20, 1980; minimum daily, 76 micromhos Feb. 12, 1980.

WATER TEMPERATURES: Maximum daily, 36.0 °C June 27, 1978; minimum daily, 4.0 °C Jan. 14, Feb. 7, 1979.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 1.5 °C was observed Jan. 19, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (µS/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECA, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 26...	1000	26	797	7.64	19.0	10	11	9.5	1.7	40	K32
JAN 25...	1230	5520	155	7.10	11.0	20	17	11.0	2.5	K60	96
APR 12...	0900	E11200	92	6.97	17.0	60	23	8.6	1.9	110	350
JUL 11...	1430	463	219	7.26	33.0	20	8.6	6.4	2.5	K8	230

DATE	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM DIS-SOLVED (MG/L AS Mg)	SODIUM DIS-SOLVED (MG/L AS Na)	POTASSIUM DIS-SOLVED (MG/L AS K)	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 26...	210	41	25	75	2.6	118	78	130	0.2	13	438
JAN 25...	27	6.4	2.6	17	2.3	14	11	29	0.1	8.7	93
APR 12...	21	5.2	1.9	8.2	2.3	19	10	14	0.2	8.1	59
JUL 11...	51	11	5.7	19	3.5	39	14	34	<0.1	8.5	129

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DIS-SOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (µG/L AS Al)	ARSENIC DIS-SOLVED (µG/L AS As)
OCT 26...	436	E<0.01	E<0.10	E0.04	E<0.01	E0.8	E0.06	E<0.01	E<0.01	10	<1
JAN 25...	84	<0.01	<0.10	0.05	0.02	0.5	0.09	0.02	0.01	40	<1
APR 12...	57	<0.01	<0.10	0.05	0.01	0.4	0.04	0.02	<0.01	50	<1
JUL 11...	120	<0.01	<0.10	0.08	0.04	3.7	0.07	<0.01	<0.01	20	1

< Actual value is known to be less than the value shown.

E Estimated.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 26...	150	<0.5	<1	<1	<3	2	8	<1	12	310	<0.1
JAN 25...	52	<0.5	<1	<1	<3	1	130	1	4	28	<0.1
APR 12...	44	<0.5	<1	<1	<3	5	550	<1	<4	27	<0.1
JUL 11...	79	<0.5	<1	<1	<3	3	58	<1	7	16	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 26...	<10	2	<1	<1	570	<6	15	23	1.6	100
JAN 25...	<10	1	<1	<1	130	<6	5	51	760	82
APR 12...	<10	2	<1	<1	75	<6	8	41	E1240	81
JUL 11...	<10	2	<1	<1	170	<6	<3	51	64	93

< Actual value is known to be less than the value shown.
E Estimated.

RED RIVER BASIN

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA

LOCATION.--Lat 32°59'40", long 93°23'47", in NE 1/4 NE 1/4 sec.16, T.23 N., R.10 W., Webster Parish, Hydrologic Unit 11140203, near left bank on downstream side of bridge on State highway 157, 0.4 mi downstream from Crooked Creek, 1.7 mi downstream from Arkansas-Louisiana State line, and 4.2 mi southeast of intersection of State Highways 7 and 157 at Springhill.

DRAINAGE AREA.--605 mi².

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

REVISED RECORDS.--WDR LA-75-1: 1974, WDR LA-85-1: 1985(P).

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Indefinite stage discharge relationship: July 26, July 28 to Aug. 1. Records good above 200 ft³/s and fair below. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--33 years, 585 ft³/s, 13.13 in/yr, 423,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,400 ft³/s, Apr. 28, 1958, gage height, 22.79 ft; no flow Oct. 10-14, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 4	2230	14,700	17.05	Apr. 10	1000	10,100	15.89
Mar. 10	1000	*25,100	*19.56	May 20	0100	10,400	15.97
Apr. 1	1100	8,970	15.58	June 6	1600	10,200	15.92

Minimum discharge, 1.5 ft³/s, Sept. 1, 7, 8; minimum gage height, 3.67 ft, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	8.8	33	138	1210	519	8770	515	2080	3.4	e5.0	1.6
2	10	8.1	25	198	2250	441	7090	551	2570	3.5	15	1.7
3	9.7	7.8	20	276	5710	404	4990	472	2660	3.5	50	2.0
4	8.4	8.1	16	416	12500	401	3300	386	2870	3.1	17	1.9
5	9.6	8.2	14	415	13000	408	2550	319	4060	2.8	14	1.7
6	10	8.3	14	435	9250	396	2520	279	9630	2.5	68	1.6
7	12	8.8	13	447	6230	536	2760	303	7320	2.3	45	1.6
8	9.7	9.8	14	436	3920	3100	3660	338	4030	2.1	66	1.5
9	8.1	10	16	402	2860	15200	7370	331	2440	2.2	53	2.3
10	9.2	11	16	339	2630	23900	8870	270	1760	2.2	32	2.5
11	9.0	12	26	268	2470	17900	3840	200	1300	2.2	24	3.1
12	7.2	13	33	205	2290	10400	2710	250	910	2.2	15	4.0
13	6.5	17	38	158	2160	5260	2290	966	506	2.1	12	3.9
14	6.4	27	40	126	1930	3190	2110	1590	264	2.2	9.5	4.0
15	6.5	31	38	104	1690	2660	2010	2010	186	2.2	8.8	6.9
16	7.1	27	33	90	1420	2330	1930	2010	172	2.1	9.5	8.2
17	9.6	24	29	104	1200	2160	1840	1860	159	2.3	10	6.4
18	9.2	23	e28	287	1050	2100	1720	3190	128	2.5	7.5	5.4
19	8.5	21	e27	534	912	1980	1510	9210	80	2.5	3.1	5.7
20	8.3	20	e26	979	778	1730	1290	9460	51	2.5	4.4	3.5
21	7.4	17	26	1130	654	1450	1100	3940	35	2.8	7.9	2.9
22	6.5	28	25	1260	648	1200	846	3080	27	2.5	8.2	3.9
23	5.8	40	25	1520	634	939	566	2290	22	2.3	8.6	4.2
24	5.4	41	25	1700	676	642	451	1950	13	2.6	5.8	4.3
25	5.1	67	23	1640	755	452	351	1720	9.7	2.9	3.1	4.0
26	4.8	79	24	1440	796	380	303	1530	11	e2.4	2.5	3.8
27	4.8	77	25	1220	744	358	300	1360	6.6	2.1	2.3	4.0
28	4.7	64	26	1020	623	413	306	1180	4.9	e2.1	2.2	4.3
29	4.5	53	27	1150	---	664	300	966	4.1	e2.0	2.0	4.3
30	5.1	42	46	1050	---	2630	342	740	3.8	e2.0	1.8	4.3
31	8.5	---	123	1070	---	7020	---	1170	---	e1.9	1.9	---
TOTAL	239.6	811.9	894	20557	80990	111163	77995	54436	43313.1	76.0	515.1	109.5
MEAN	7.73	27.1	28.8	663	2892	3586	2600	1756	1444	2.45	16.6	3.65
MAX	12	79	123	1700	13000	23900	8870	9460	9630	3.5	68	8.2
MIN	4.5	7.8	13	90	623	358	300	200	3.8	1.9	1.8	1.5
AC-FT	475	1610	1770	40770	160600	220500	154700	108000	85910	151	1020	217
CFSM	.01	.04	.05	1.10	4.78	5.93	4.30	2.90	2.39	.00	.03	.01
IN.	.01	.05	.05	1.26	4.98	6.84	4.80	3.35	2.66	.00	.03	.01

CAL YR 1989	TOTAL 402330.5	MEAN 1102	MAX 12000	MIN 4.5	AC-FT 798000	CFSM 1.82	IN. 24.74
WTR YR 1990	TOTAL 391100.2	MEAN 1072	MAX 23900	MIN 1.5	AC-FT 775700	CFSM 1.77	IN. 24.05

e Estimated.

RED RIVER BASIN

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07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.43	4.32	5.21	6.65	11.80	9.69	15.52	9.67	12.81	4.35	4.64	3.68
2	4.38	4.28	5.03	7.30	13.01	9.23	15.07	9.87	13.29	4.37	4.76	3.72
3	4.36	4.27	4.90	8.01	14.57	9.00	14.47	9.42	13.32	4.38	5.41	3.80
4	4.30	4.28	4.81	9.07	16.52	8.97	13.77	8.87	13.48	4.35	4.68	3.81
5	4.35	4.29	4.75	9.07	16.65	9.02	13.27	8.37	13.94	4.33	4.55	3.80
6	4.37	4.29	4.73	9.19	15.66	8.94	13.25	8.05	15.77	4.30	5.54	3.82
7	4.44	4.32	4.72	9.27	14.83	9.54	13.42	8.25	15.13	4.28	5.20	3.83
8	4.35	4.36	4.76	9.20	14.08	13.24	13.97	8.52	14.09	4.28	5.58	3.85
9	4.29	4.38	4.80	8.97	13.49	17.20	15.15	8.47	13.18	4.31	5.36	3.99
10	4.33	4.42	4.81	8.52	13.33	19.32	15.55	7.97	12.56	4.33	4.93	4.05
11	4.33	4.47	5.06	7.95	13.22	17.94	14.07	7.32	11.95	4.36	4.72	4.15
12	4.24	4.51	5.23	7.37	13.08	15.97	13.39	7.79	11.07	4.37	4.51	4.26
13	4.20	4.61	5.33	6.87	12.96	14.55	13.07	11.22	9.62	4.37	4.39	4.27
14	4.19	4.89	5.35	6.53	12.74	13.69	12.92	12.37	7.92	4.41	4.31	4.31
15	4.20	4.98	5.32	6.24	12.48	13.35	12.82	12.82	7.17	4.43	4.28	4.52
16	4.23	4.90	5.22	6.07	12.16	13.10	12.74	12.82	7.02	4.44	4.31	4.63
17	4.35	4.85	5.14	6.24	11.79	12.96	12.65	12.67	6.87	4.48	4.34	4.56
18	4.33	4.83	---	8.09	11.44	12.90	12.52	13.54	6.47	4.54	4.21	4.52
19	4.30	4.83	---	9.73	11.07	12.80	12.27	15.65	5.97	4.56	3.89	4.56
20	4.29	4.80	---	11.24	10.69	12.53	11.97	15.72	5.59	4.58	3.97	4.40
21	4.25	4.76	5.06	11.61	10.29	12.20	11.55	14.12	5.31	4.65	4.24	4.34
22	4.20	5.02	5.03	11.90	10.27	11.78	10.89	13.53	5.15	4.63	4.25	4.44
23	4.16	5.31	5.03	12.28	10.22	11.14	9.95	13.07	5.04	4.63	4.27	4.47
24	4.13	5.34	5.02	12.50	10.36	10.22	9.29	12.76	4.81	4.68	4.10	4.48
25	4.11	5.77	4.98	12.43	10.62	9.30	8.62	12.52	4.69	4.72	3.89	4.45
26	4.09	5.94	5.00	12.19	10.74	8.82	8.25	12.30	4.73	4.51	3.82	4.44
27	4.08	5.91	5.03	11.82	10.58	8.67	8.22	12.08	4.55	4.48	3.80	4.45
28	4.08	5.74	5.05	11.36	10.17	9.05	8.27	11.75	4.45	4.55	3.78	4.47
29	4.06	5.58	5.09	11.66	---	10.32	8.22	11.22	4.40	4.60	3.75	4.48
30	4.10	5.40	5.46	11.42	---	13.19	8.55	10.57	4.38	4.63	3.73	4.48
31	4.30	---	6.47	11.47	---	15.05	---	12.03	---	4.65	3.73	---
MAX	4.44	5.94	---	12.50	16.65	19.32	15.55	15.72	15.77	4.72	5.58	4.63
MIN	4.06	4.27	---	6.07	10.17	8.67	8.22	7.32	4.38	4.28	3.73	3.68

07349000 BAYOU DORCHEAT NEAR MINDEN, LA

LOCATION.--Lat 32°35'55", long 93°19'59", in NE 1/4 NW 1/4 sec.31, T.19 N., R.9 W., Webster Parish, Hydrologic Unit 11140203, on left bank 500 ft upstream from bridge on U.S. Highway 80, 0.7 mi upstream from Louisiana and Arkansas Railway Co. bridge, 3.0 mi west of Minden, and 28 mi upstream from Lake Bistineau dam.

DRAINAGE AREA.--1,097 mi².

PERIOD OF RECORD.--July 1928 to September 1931, October 1936 to September 1979. October 1979 to current year (annual maximum and gage heights only). Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1211: Drainage area. WSP 1241: 1941.

GAGE.--Water-stage recorder. Datum of gage is 133.75 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Mar. 1, 1940, nonrecording gage at same site and datum. July 29, 1953, to Sept. 30, 1979, supplementary water-stage recorder 4.6 mi upstream from base gage at different datum.

REMARKS.--Gage heights affected by Lake Bistineau.

AVERAGE DISCHARGE.--46 years (water years 1929-31, 1937-79), 1,111 ft³/s, 13.75 in/yr, 804,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,800 ft³/s, May 1, 1958, gage height, 24.90 ft; no flow at times in 1954, 1956, 1964, 1969, 1972, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,600 ft³/s, Mar. 12, gage height, 22.38 ft; minimum gage height, 6.69 ft, Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.11	7.02	7.28	7.62	11.62	9.51	14.94	7.90	11.66	7.25	7.02	6.91
2	7.11	7.01	7.27	7.59	12.46	9.53	16.93	7.84	10.90	7.23	7.05	6.90
3	7.10	7.01	7.24	7.61	14.24	9.45	17.88	7.94	10.53	7.21	7.06	6.89
4	7.08	7.02	7.27	7.73	17.31	9.26	17.61	8.09	11.29	7.20	7.05	6.87
5	7.08	7.03	7.27	7.82	21.14	9.03	16.76	8.07	11.83	7.18	7.04	6.85
6	7.08	7.07	7.25	8.01	21.86	8.80	16.03	8.00	12.88	7.18	7.06	6.85
7	7.04	7.07	7.20	8.12	21.10	8.64	15.59	7.89	14.32	7.15	7.06	6.83
8	7.06	7.06	7.21	8.18	19.81	8.84	15.06	7.77	15.85	7.13	7.06	6.80
9	7.06	7.06	7.25	8.15	18.35	9.76	14.62	7.70	16.66	7.12	7.06	6.80
10	7.06	7.05	7.28	8.07	17.35	11.74	14.70	7.64	16.09	7.11	7.05	6.81
11	7.05	7.05	7.21	8.01	16.51	19.02	15.29	7.64	15.04	7.09	7.05	6.84
12	7.04	7.04	7.21	7.90	15.76	22.15	15.96	8.19	14.03	7.09	7.05	6.84
13	7.03	7.04	7.24	7.80	15.17	21.89	15.81	9.12	13.09	7.07	7.04	6.85
14	7.02	7.05	7.25	7.71	14.71	20.40	15.28	9.77	12.12	7.04	7.05	6.84
15	7.01	7.06	7.19	7.62	14.26	18.71	14.82	10.50	11.01	7.04	7.04	6.84
16	7.09	7.03	7.18	7.57	13.82	17.09	14.29	11.30	9.54	7.03	7.04	6.83
17	7.07	7.03	7.20	7.65	13.34	15.75	13.75	11.98	8.34	7.02	7.03	6.82
18	7.05	7.02	7.21	9.34	12.83	14.81	13.28	12.44	7.92	7.02	7.02	6.83
19	7.05	7.02	7.22	10.36	12.30	14.11	12.83	12.70	7.73	7.02	7.00	6.86
20	7.06	7.02	7.24	10.77	11.75	13.48	12.39	12.69	7.62	7.02	6.98	6.85
21	7.07	7.01	7.21	11.09	11.21	12.92	11.95	12.85	7.53	7.01	7.02	6.85
22	7.06	7.18	7.17	11.25	10.84	12.40	11.47	14.39	7.47	7.00	7.08	6.82
23	7.04	7.28	7.23	11.29	10.45	11.91	10.95	15.21	7.38	7.03	7.08	6.80
24	7.03	7.32	7.24	11.42	10.14	11.40	10.37	14.78	7.35	7.06	7.06	6.80
25	7.03	7.34	7.25	11.49	9.93	10.83	9.76	14.08	7.33	7.05	7.04	6.79
26	7.02	7.32	7.25	11.36	9.78	10.18	9.12	13.36	7.33	7.05	7.02	6.78
27	7.02	7.35	7.26	11.14	9.64	9.49	8.56	12.66	7.32	7.03	7.00	6.76
28	7.01	7.27	7.26	11.02	9.51	8.87	8.26	11.98	7.31	7.01	6.99	6.75
29	7.01	7.25	7.30	11.58	---	8.98	8.09	11.26	7.28	7.00	6.98	6.74
30	7.03	7.27	7.48	11.80	---	11.21	7.97	10.63	7.27	6.98	6.96	6.72
31	7.03	---	7.66	11.70	---	13.03	---	10.77	---	6.98	6.93	---
MAX	7.11	7.35	7.66	11.80	21.86	22.15	17.88	15.21	16.66	7.25	7.08	6.91
MIN	7.01	7.01	7.17	7.57	9.51	8.64	7.97	7.64	7.27	6.98	6.93	6.72

07349250 LAKE BISTINEAU NEAR RINGGOLD, LA

LOCATION.--Lat 32°19'46", long 93°26'10", in SE 1/4 NW 1/4 sec.31, T.16 N., R.10 W., Bossier Parish, Hydrologic Unit 11140203, 40 ft upstream from spillway near right bank on upstream side of bridge on State Highway 154, 9.0 mi west of Ringgold, and 17.0 mi upstream from mouth.

DRAINAGE AREA.--1.443 mi².

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

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 130.00 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft concrete spillway equipped with 12 adjustable gates and a fish ladder. Each gate is 6.0-ft wide and 5.0-ft high and fits into a notch along the spillway crest. The 1.75-ft thick spillway crest is flat and has an invert at 11 ft gage height with invert of the notches at 6 ft gage height. The fish ladder is 4-ft wide and begins flowing at 4.1 ft gage height. Capacity at spillway crest is 120,000 acre-ft. Dam was completed in 1935 and enlarged in 1951. Reservoir is used for flood control and conservation. Gates were closed all year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.37 ft, July 4, 1989; minimum, 3.37 ft, Nov. 18, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.53 ft, Feb. 8; minimum, 10.51 ft, Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.89	10.81	11.04	11.33	12.07	11.68	12.38	11.38	12.67	11.01	10.78	10.71
2	10.88	10.81	11.05	11.29	12.28	11.67	12.45	11.35	12.47	11.00	10.79	10.69
3	10.88	10.79	11.05	11.27	12.53	11.68	12.60	11.33	12.24	10.99	10.78	10.68
4	10.89	10.76	11.00	11.34	12.95	11.65	12.74	11.38	12.17	10.98	10.78	10.67
5	10.87	10.75	11.01	11.39	13.14	11.62	12.78	11.37	12.08	10.96	10.78	10.65
6	10.85	10.80	11.02	11.46	13.69	11.58	12.77	11.34	12.00	10.94	10.77	10.62
7	10.89	10.82	11.06	11.47	14.29	11.54	12.68	11.31	12.01	10.93	10.77	10.60
8	10.87	10.83	11.05	11.44	14.49	11.52	12.58	11.30	12.11	10.92	10.76	10.59
9	10.84	10.82	11.01	11.42	14.41	11.54	12.47	11.28	12.29	10.91	10.76	10.59
10	10.83	10.82	10.98	11.40	14.36	11.60	12.47	11.27	12.44	10.88	10.76	10.60
11	10.82	10.81	11.05	11.38	14.08	11.81	12.47	11.23	12.47	10.86	10.77	10.62
12	10.82	10.81	11.03	11.37	13.70	12.61	12.46	11.46	12.37	10.86	10.77	10.64
13	10.81	10.80	10.99	11.31	13.27	13.40	12.49	11.89	12.25	10.87	10.77	10.63
14	10.81	10.80	10.98	11.28	12.90	13.97	12.54	12.35	12.15	10.86	10.78	10.62
15	10.80	10.83	11.05	11.27	12.61	14.26	12.54	12.94	12.04	10.81	10.78	10.63
16	10.83	10.83	11.02	11.24	12.47	14.10	12.46	13.50	11.88	10.82	10.77	10.62
17	10.90	10.80	11.00	11.28	12.32	13.73	12.37	13.91	11.70	10.80	10.78	10.61
18	10.91	10.80	11.00	11.89	12.18	13.30	12.25	13.98	11.55	10.83	10.78	10.62
19	10.87	10.79	11.04	12.20	12.09	12.88	12.14	13.89	11.42	10.84	10.79	10.64
20	10.82	10.79	11.03	12.44	12.00	12.51	12.06	13.69	11.33	10.83	10.79	10.63
21	10.79	10.80	11.07	12.31	11.93	12.27	12.01	13.39	11.26	10.82	10.81	10.62
22	10.79	10.97	11.09	12.15	11.92	12.12	11.94	13.06	11.20	10.81	10.87	10.63
23	10.80	11.08	11.01	12.01	11.91	12.03	11.87	12.82	11.18	10.81	10.85	10.64
24	10.81	11.06	11.01	12.04	11.84	11.96	11.81	12.65	11.12	10.81	10.83	10.59
25	10.81	11.07	11.01	12.05	11.77	11.87	11.74	12.49	11.09	10.80	10.82	10.56
26	10.80	11.08	11.01	11.96	11.68	11.78	11.67	12.33	11.12	10.81	10.82	10.55
27	10.80	11.06	11.01	11.90	11.66	11.69	11.61	12.21	11.10	10.80	10.81	10.55
28	10.79	11.10	11.02	11.96	11.64	11.63	11.56	12.07	11.09	10.79	10.78	10.54
29	10.78	11.08	11.04	12.18	---	11.69	11.45	11.95	11.06	10.78	10.76	10.53
30	10.80	11.04	11.22	12.20	---	12.11	11.42	11.86	11.03	10.80	10.75	10.52
31	10.82	---	11.33	12.14	---	12.33	---	12.15	---	10.78	10.73	---
MAX	10.91	11.10	11.33	12.44	14.49	14.26	12.78	13.98	12.67	11.01	10.87	10.71
MIN	10.78	10.75	10.98	11.24	11.64	11.52	11.42	11.23	11.03	10.78	10.73	10.52

07349500 BODCAU BAYOU NEAR SAREPTA, LA

LOCATION.--Lat 32°54'18", long 93°28'58", in NE 1/4 sec.15, T.22 N., R.11 W., Bossier-Webster Parish line, Hydrologic Unit 11140205, on left bank on downstream side of bridge on State Highway 2, 2.1 mi northwest of Sarepta, and 9.5 mi upstream from Caney Creek.

DRAINAGE AREA.--546 mi².

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

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges. Records fair. Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 mi upstream. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--52 years, 584 ft³/s, 423,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s, May 2, 1958, gage height, 25.14 ft; minimum, 0.1 ft³/s at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft, Aug. 14-19, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 3	1730	4,180	16.66	Apr. 11	2100	4,870	18.07
Mar. 10	1730	*8,420	*20.85	June 9	1130	3,520	16.61

Minimum discharge, 23 ft³/s, Oct. 1-4; minimum gage height, 2.75 ft Oct. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	337	375	207	1210	910	2920	833	1080	42	29	30
2	23	319	375	171	1660	892	3100	721	1390	39	68	30
3	23	319	371	157	3640	874	3240	628	1720	39	136	36
4	23	326	370	241	3460	847	3340	557	2360	38	110	37
5	24	330	371	282	3000	816	3230	508	2790	37	63	36
6	25	333	377	272	2500	787	3310	487	2970	37	55	34
7	25	341	382	225	2130	915	3590	456	3010	36	74	33
8	29	348	387	182	1790	2160	3880	436	3300	33	73	36
9	31	338	398	162	1780	6360	3800	448	3500	32	55	37
10	32	259	403	149	2250	8130	4130	496	3340	31	41	35
11	32	138	401	146	2630	8120	4730	564	2960	31	34	37
12	33	110	388	142	2720	7630	4760	786	2490	30	33	38
13	34	119	328	138	2550	7110	4000	983	1890	29	32	38
14	35	163	229	137	2200	5840	3620	1240	1480	28	29	36
15	37	237	161	135	1860	5020	3460	1450	1230	28	29	34
16	41	273	127	125	1650	4330	3220	1370	935	27	30	32
17	45	284	118	151	1530	3670	2940	1240	665	27	29	31
18	103	304	116	300	1490	3070	2620	1160	458	28	28	31
19	240	337	115	517	1430	2560	2320	1510	321	30	28	31
20	342	351	114	784	1340	2090	2030	1880	191	34	27	32
21	442	361	112	886	1250	1770	1790	2080	121	46	29	31
22	516	393	108	932	1220	1510	1640	2110	107	52	30	30
23	563	409	e106	928	1200	1330	1530	2070	95	39	37	29
24	581	402	e104	868	1230	1200	1410	1960	83	33	40	28
25	591	396	e102	774	1220	1100	1300	1780	77	31	39	28
26	599	394	100	698	1150	998	1190	1600	71	29	37	28
27	602	390	100	679	1040	883	1100	1440	65	28	36	28
28	609	381	99	719	947	792	1040	1350	60	26	36	27
29	595	373	99	964	---	910	979	1330	55	25	35	27
30	520	372	111	1100	---	1630	917	1300	47	25	34	27
31	400	---	188	1170	---	2510	---	1190	---	25	32	---
TOTAL	7218	9437	7135	14341	52077	86764	81136	35963	38861	1015	1388	967
MEAN	233	315	230	463	1860	2799	2705	1160	1295	32.7	44.8	32.2
MAX	609	409	403	1170	3640	8130	4760	2110	3500	52	136	38
MIN	23	110	99	125	947	787	917	436	47	25	27	27
AC-FT	14320	18720	14150	28450	103300	172100	160900	71330	77080	2010	2750	1920

CAL YR 1989	TOTAL 421395	MEAN 1155	MAX 7060	MIN 22	AC-FT 835800
WTR YR 1990	TOTAL 336302	MEAN 921	MAX 8130	MIN 23	AC-FT 667100

e Estimated.

07349500 BODCAU BAYOU NEAR SAREPTA, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.76	6.93	7.27	5.67	12.09	10.60	15.82	10.18	11.48	3.21	2.89	2.95
2	2.76	6.77	7.27	5.27	13.47	10.50	16.07	9.55	12.51	3.16	3.63	3.03
3	2.76	6.76	7.24	5.11	16.03	10.40	16.26	9.00	13.88	3.14	4.85	3.23
4	2.76	6.83	7.23	6.01	16.53	10.26	16.38	8.56	14.80	3.14	4.47	3.28
5	2.79	6.87	7.24	6.40	16.08	10.09	16.24	8.23	15.65	3.10	3.68	3.27
6	2.81	6.89	7.29	6.30	15.41	9.93	16.35	8.09	15.89	3.09	3.52	3.25
7	2.82	6.97	7.32	5.85	14.66	10.60	16.69	7.87	15.95	3.06	3.90	3.25
8	2.95	7.03	7.36	5.40	14.06	13.82	17.03	7.73	16.32	3.00	3.88	3.33
9	3.00	6.94	7.45	5.17	14.04	17.96	16.93	7.81	16.58	2.96	3.51	3.40
10	3.02	6.18	7.48	5.03	14.84	20.66	17.30	8.15	16.38	2.95	3.19	3.36
11	3.02	4.89	7.46	5.00	15.43	20.65	17.93	8.60	15.87	2.94	3.03	3.45
12	3.05	4.54	7.37	4.96	15.56	20.32	17.96	9.89	15.22	2.92	2.99	3.54
13	3.08	4.66	6.84	4.90	15.30	19.94	17.45	10.96	14.42	2.88	2.98	3.54
14	3.11	5.18	5.89	4.89	14.77	19.24	16.90	12.19	13.41	2.86	2.90	3.50
15	3.16	5.97	5.16	4.87	14.20	18.51	16.53	13.07	12.14	2.86	2.89	3.45
16	3.24	6.32	4.77	4.75	13.69	17.82	16.22	12.77	10.72	2.83	2.90	3.43
17	3.34	6.43	4.66	5.03	13.34	17.05	15.85	12.23	9.22	2.83	2.89	3.43
18	4.37	6.62	4.62	6.57	13.19	16.25	15.41	11.87	7.87	2.86	2.87	3.45
19	5.99	6.93	4.60	8.28	12.99	15.48	14.95	12.99	6.77	2.91	2.85	3.48
20	6.97	7.05	4.59	9.91	12.63	14.74	14.49	14.23	5.47	3.02	2.84	3.56
21	7.77	7.15	4.56	10.47	12.26	14.00	14.07	14.58	4.67	3.31	2.87	3.50
22	8.28	7.41	4.50	10.70	12.15	13.27	13.68	14.62	4.46	3.45	2.91	3.44
23	8.59	7.53	---	10.69	12.06	12.59	13.32	14.57	4.26	3.14	3.10	3.43
24	8.71	7.47	---	10.37	12.16	12.05	12.92	14.38	4.06	3.00	3.17	3.37
25	8.77	7.44	---	9.86	12.13	11.55	12.47	14.03	3.95	2.95	3.15	3.35
26	8.83	7.42	4.37	9.42	11.78	11.04	12.00	13.54	3.83	2.90	3.11	3.35
27	8.84	7.38	4.38	9.31	11.26	10.45	11.58	13.01	3.72	2.87	3.09	3.34
28	8.88	7.32	4.37	9.54	10.78	9.96	11.26	12.68	3.61	2.80	3.08	3.33
29	8.80	7.26	4.36	10.87	---	10.57	10.94	12.59	3.52	2.76	3.05	3.31
30	8.31	7.24	4.54	11.55	---	13.33	10.63	12.45	3.34	2.76	3.01	3.32
31	7.46	---	5.46	11.91	---	14.91	---	12.01	---	2.78	2.97	---
MAX	8.88	7.53	---	11.91	16.53	20.66	17.96	14.62	16.58	3.45	4.85	3.56
MIN	2.76	4.54	---	4.75	10.78	9.93	10.63	7.73	3.34	2.76	2.84	2.95

RED RIVER BASIN

07349815 CYPRESS BAYOU LAKE NEAR BENTON, LA

LOCATION.--Lat 32°39'07", long 93°40'11", in NE 1/4 SW 1/4 sec.12, T.19 N., R.13 W., Webster Parish, Hydrologic Unit 11140204, attached to pier of catwalk to diversion structure about 4,500 ft northwest of spillway, and 5.0 mi southeast of Benton.

DRAINAGE AREA.--163 mi².

PERIOD OF RECORD.--January 1975 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Gage heights for Dec. 23-25 are to top of ice. Reservoir is formed by a 6,000-ft earthfill dam on Cypress Bayou. The 250-ft concrete spillway with rest at 9.60 ft, gage datum, is located at left end of dam. Capacity at spillway crest, 25,000 acre-ft. A 6- by 6-ft sluice gate with still at -15.5 ft, gage datum, is located at diversion structure 4,500 ft northwest of spillway. Water from Cypress Bayou Lake is diverted into Black Bayou Lake by way of this structure. Dam completed and storage began in 1975. Reservoir is used for flood control, conservation, and recreation. Gates were closed all year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.02 ft, June 29, 1986 and Dec. 28, 1987; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.80 ft, Feb. 3; minimum recorded, 8.62 ft, Nov. 19, but may have been lower during period of no gage-height record.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.98	8.76	8.76	8.99	10.18	9.92	---	9.89	---	9.56	9.39	9.01
2	8.98	8.76	8.76	9.03	10.48	9.91	---	9.84	---	9.54	9.41	8.98
3	8.97	8.74	8.75	9.08	11.40	9.91	---	9.80	---	9.54	9.43	8.96
4	8.96	8.72	8.72	9.19	11.68	9.90	---	9.80	---	9.65	9.41	---
5	8.94	8.71	8.72	9.26	11.35	9.86	---	9.78	---	9.61	9.43	---
6	8.94	8.73	8.73	9.37	10.97	9.83	---	9.77	---	9.59	9.46	---
7	8.97	8.73	8.75	9.43	10.68	9.88	---	9.74	---	9.56	9.45	---
8	8.96	8.74	8.74	9.46	10.47	10.10	---	9.72	---	9.54	9.42	---
9	8.94	8.72	8.73	9.49	10.37	10.45	---	9.71	---	9.52	9.40	---
10	8.92	8.71	8.72	9.51	10.43	10.90	---	9.69	---	9.49	9.38	---
11	8.91	8.71	8.74	9.53	10.38	10.87	---	9.66	---	9.47	9.37	---
12	8.90	8.70	8.73	9.54	10.35	10.66	---	9.84	---	9.45	9.35	---
13	8.90	8.69	8.71	9.53	10.30	10.45	---	9.99	---	9.43	9.34	---
14	8.89	8.69	8.70	9.53	10.22	10.32	---	10.02	---	9.39	9.34	---
15	8.88	8.71	8.72	9.54	10.17	10.34	---	10.04	---	9.37	9.34	---
16	8.89	8.69	8.69	9.55	10.11	10.34	---	10.01	---	9.34	9.32	---
17	8.91	8.65	8.68	9.65	10.04	10.36	---	9.97	---	9.34	9.30	---
18	8.89	8.64	8.69	9.96	9.99	10.30	---	9.89	---	9.39	9.28	---
19	8.86	8.64	8.71	10.11	9.94	10.22	---	9.85	---	9.38	9.26	---
20	8.83	8.64	8.70	10.22	9.89	10.09	---	9.82	---	9.36	9.25	---
21	8.81	8.63	8.72	10.20	9.91	9.99	---	9.80	9.40	9.34	9.23	---
22	8.80	8.75	8.72	10.17	10.08	9.92	---	9.76	9.38	9.33	9.21	---
23	8.80	8.78	8.68	10.11	10.13	9.88	9.85	9.73	9.36	9.42	9.19	---
24	8.79	8.77	8.68	10.05	10.15	9.85	---	9.69	9.33	9.49	9.17	---
25	8.78	8.77	8.68	9.97	10.12	9.81	9.80	---	9.35	9.49	9.16	---
26	8.77	8.78	8.67	9.89	10.05	9.79	9.81	---	9.54	9.48	9.14	---
27	8.76	8.78	8.67	9.85	9.97	9.76	9.89	---	9.58	9.47	9.13	9.81
28	8.75	8.80	8.68	9.89	9.92	9.79	9.94	---	9.62	9.45	9.11	9.80
29	8.74	8.78	8.70	10.02	---	9.84	9.94	---	9.61	9.44	9.08	9.79
30	8.76	8.76	8.80	10.09	---	---	9.93	---	9.59	9.43	9.07	9.77
31	8.77	---	8.96	10.12	---	---	---	---	---	9.41	9.04	---
MAX	8.98	8.80	8.96	10.22	11.68	---	---	---	---	9.65	9.46	---
MIN	8.74	8.63	8.67	8.99	9.89	---	---	---	---	9.33	9.04	---

07349860 RED CHUTE BAYOU AT SLIGO, LA

LOCATION.--Lat 32°26'50", long 93°35'40", SW 1/4 NW 1/4 sec.22, T.17 N., R.12 W., Bossier Parish, Hydrologic unit 11140204, on downstream side of bridge on State Highway 612, 0.5 mi west of Sligo.

DRAINAGE AREA.--980 mi².

PERIOD OF RECORD.--Annual maximums, water years 1960-80. July 1980 to current year.

REVISED RECORDS.--WDR LA-82-1: 1968-80(M).

GAGE.--Water-stage recorder. Elevation of gage is 120.00 ft above National Geodetic Vertical Datum of 1929. Dec. 1, 1959 to July 10, 1980, crest-stage indicator at same site. Dec. 1, 1966 to July 10, 1980 at datum 121.26 ft lower and prior to Dec. 1, 1966 at National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--10 years (water year 1981-90) 922 ft³/s, 668,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft³/s, July 2, 1989, gage height, 36.46 ft, present datum; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,840 ft³/s, Mar. 31, gage height, 34.82 ft; minimum discharge, 13 ft³/s, Sept. 3, 4-7, 8; minimum gage height, 16.05 ft, Sept. 5, 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	372	359	236	1490	2630	3780	3180	2930	1780	54	16
2	28	392	362	257	1850	2630	3620	3140	2760	1740	48	15
3	28	408	361	269	2740	2600	3510	3110	2670	1690	41	14
4	27	419	361	323	3410	2570	3420	3080	2660	1640	39	13
5	26	427	362	329	3400	2530	3360	3040	2550	1580	38	13
6	26	431	363	335	3220	2490	3380	3010	2480	1520	48	13
7	26	427	364	312	3100	2460	3460	2980	2430	1450	52	13
8	25	421	364	301	3040	2460	3530	2950	2390	1360	64	14
9	21	412	364	294	3030	2470	3570	2920	2370	1280	73	14
10	18	399	364	290	3240	2520	3610	2900	2330	1180	76	20
11	19	388	364	289	3240	2610	3650	2890	2300	1070	72	33
12	18	378	364	286	3210	2690	3640	3110	2280	997	66	37
13	16	367	364	281	3140	2750	3610	3400	2250	922	61	48
14	16	357	366	270	3060	2820	3630	3370	2220	843	58	46
15	18	344	368	258	3020	2980	3680	3340	2190	764	57	42
16	19	322	367	243	2990	3060	3680	3290	2170	685	57	38
17	18	295	364	296	2920	3130	3670	3250	2140	612	51	35
18	16	266	357	960	2880	3140	3630	3210	2120	540	47	39
19	15	233	343	1140	2830	3120	3570	3170	2090	459	43	34
20	14	205	319	1250	2780	3090	3520	3120	2070	381	40	32
21	15	190	290	1220	2770	3050	3470	3060	2050	301	35	30
22	16	219	258	1160	2840	3010	3430	2990	2030	223	30	29
23	39	254	244	1110	2810	2980	3380	2910	2010	156	28	27
24	67	274	217	1140	2780	2950	3350	2840	1980	101	25	25
25	119	294	164	1140	2750	2920	3310	2770	1970	81	22	23
26	169	312	127	1150	2710	2900	3280	2710	2030	78	20	21
27	208	329	116	1140	2670	2880	3270	2660	1950	75	18	20
28	246	341	113	1210	2640	2860	3290	2620	1900	71	18	18
29	282	349	114	1480	---	2910	3260	2570	1860	69	19	16
30	318	354	151	1470	---	3510	3220	2540	1820	64	20	14
31	349	---	241	1480	---	3780	---	2770	---	56	18	---
TOTAL	2250	10179	9235	21919	80560	88500	104780	92900	67000	23768	1338	752
MEAN	72.6	339	298	707	2877	2855	3493	2997	2233	767	43.2	25.1
MAX	349	431	368	1480	3410	3780	3780	3400	2930	1780	76	48
MIN	14	190	113	236	1490	2460	3220	2540	1820	56	18	13
AC-FT	4460	20190	18320	43480	159800	175500	207800	184300	132900	47140	2650	1490
CAL YR 1989	TOTAL 626430		MEAN 1716		MAX 4460		MIN 14		AC-FT 1243000			
WTR YR 1990	TOTAL 503181		MEAN 1379		MAX 3780		MIN 13		AC-FT 998100			

RED RIVER BASIN

07349860 RED CHUTE BAYOU AT SLIGO, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.47	20.18	20.07	19.08	26.35	30.94	34.65	32.78	31.97	27.63	17.01	16.15
2	16.49	20.33	20.09	19.27	27.94	30.91	34.20	32.66	31.39	27.43	16.90	16.11
3	16.49	20.44	20.09	19.37	31.22	30.81	33.83	32.55	31.07	27.21	16.76	16.08
4	16.46	20.53	20.09	19.80	33.52	30.71	33.55	32.45	31.03	27.01	16.70	16.06
5	16.44	20.59	20.10	19.84	33.49	30.58	33.36	32.33	30.66	26.76	16.68	16.06
6	16.43	20.61	20.10	19.89	32.91	30.43	33.43	32.22	30.41	26.47	16.89	16.05
7	16.44	20.59	20.11	19.72	32.52	30.33	33.68	32.12	30.21	26.15	16.98	16.06
8	16.41	20.54	20.11	19.63	32.33	30.33	33.91	32.03	30.09	25.77	17.19	16.08
9	16.31	20.47	20.11	19.57	32.29	30.38	34.03	31.94	29.99	25.36	17.33	16.10
10	16.23	20.38	20.11	19.55	32.97	30.56	34.16	31.86	29.88	24.89	17.38	16.27
11	16.25	20.29	20.11	19.54	32.97	30.85	34.27	31.81	29.77	24.38	17.33	16.60
12	16.21	20.22	20.11	19.51	32.87	31.14	34.24	32.54	29.68	23.98	17.22	16.68
13	16.15	20.14	20.11	19.47	32.66	31.35	34.15	33.48	29.56	23.58	17.14	16.90
14	16.15	20.05	20.13	19.38	32.38	31.58	34.20	33.39	29.44	23.13	17.09	16.85
15	16.22	19.96	20.14	19.28	32.25	32.13	34.36	33.29	29.34	22.70	17.06	16.77
16	16.23	19.79	20.13	19.15	32.15	32.39	34.39	33.13	29.25	22.26	17.06	16.69
17	16.22	19.58	20.11	19.53	31.92	32.60	34.34	33.01	29.15	21.83	16.96	16.63
18	16.17	19.34	20.06	23.78	31.77	32.63	34.21	32.88	29.06	21.37	16.88	16.71
19	16.13	19.06	19.95	24.73	31.62	32.57	34.03	32.75	28.97	20.82	16.79	16.62
20	16.10	18.82	19.77	25.24	31.46	32.47	33.87	32.59	28.88	20.24	16.72	16.57
21	16.11	18.69	19.54	25.09	31.40	32.36	33.71	32.39	28.80	19.63	16.63	16.53
22	16.16	18.94	19.28	24.82	31.64	32.24	33.57	32.15	28.71	18.97	16.53	16.50
23	16.69	19.24	19.16	24.58	31.55	32.12	33.44	31.89	28.61	18.33	16.47	16.45
24	17.23	19.42	18.93	24.69	31.45	32.02	33.31	31.64	28.50	17.70	16.39	16.40
25	17.90	19.58	18.41	24.70	31.33	31.94	33.19	31.43	28.47	17.46	16.33	16.35
26	18.48	19.71	18.00	24.74	31.20	31.86	33.09	31.22	28.70	17.41	16.26	16.31
27	18.85	19.84	17.87	24.73	31.06	31.79	33.07	31.05	28.35	17.36	16.21	16.26
28	19.18	19.94	17.84	25.04	30.95	31.72	33.14	30.91	28.16	17.30	16.20	16.22
29	19.48	19.99	17.86	26.32	---	31.89	33.04	30.73	27.99	17.27	16.24	16.17
30	19.76	20.03	18.26	26.24	---	33.83	32.90	30.61	27.81	17.19	16.27	16.11
31	20.00	---	19.13	26.28	---	34.67	---	31.40	---	17.05	16.22	---
MAX	20.00	20.61	20.14	26.32	33.52	34.67	34.65	33.48	31.97	27.63	17.38	16.90
MIN	16.10	18.69	17.84	19.08	26.35	30.33	32.90	30.61	27.81	17.05	16.20	16.05

07350500 RED RIVER AT COUSHATTA, LA

STATION.--Lat 32°00'45", long 93°21'10", in lot 23, T.12 N., R.10 W., Red River Parish, Hydrologic Unit 08040301, at bridge on U.S. Highway 84 at Coushatta, 11.0 mi downstream from Coushatta Bayou, and at mile 242.4.

DRAINAGE AREA.--63,362 mi².

PERIOD OF RECORD.--Water years 1970-1976, 1987 to current year.

REMARKS.--Water-quality samples are non-integrated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT										
25...	1015	1030	7.97	19.5	40	120	9.3	62	2.5	1100
NOV										
15...	1445	915	8.05	20.0	50	16	9.0	--	3.1	2200
DEC										
06...	1100	986	8.05	13.5	50	19	12.4	48	4.3	3900
JAN										
24...	1100	372	7.50	13.0	60	300	9.7	77	4.5	K950
FEB										
28...	1130	318	7.41	13.5	80	--	10.8	68	5.6	1600
MAR										
15...	1200	183	7.38	17.0	80	--	8.2	150	2.3	K4200
APR										
11...	1245	445	7.71	16.0	50	--	8.4	41	1.8	1300
MAY										
16...	1100	495	7.64	23.0	15	250	6.8	48	1.2	1800
JUN										
20...	1100	344	7.62	29.5	50	--	7.0	42	1.9	K350
JUL										
11...	1100	370	7.52	30.0	40	--	6.9	37	1.8	350
AUG										
29...	1115	453	7.41	31.5	15	18	7.9	24	2.2	K85
SEP										
27...	1100	782	8.10	25.0	30	15	8.9	10	4.3	K190

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT										
25...	140	96	270	73	22	98	5.5	191	120	140
NOV										
15...	250	56	270	73	22	90	5.3	200	100	110
DEC										
06...	330	K30	290	73	26	95	4.9	217	110	120
JAN										
24...	650	650	100	29	7.5	25	3.0	103	28	30
FEB										
28...	K160	--	85	25	4.9	24	2.6	56	35	36
MAR										
15...	520	600	62	19	3.6	11	2.4	45	21	16
APR										
11...	270	210	110	33	7.7	37	2.8	73	58	55
MAY										
16...	240	1900	150	43	9.7	41	3.4	102	61	65
JUN										
20...	96	74	100	31	6.1	24	2.6	81	29	35
JUL										
11...	K24	K70	110	33	7.6	29	3.1	99	31	39
AUG										
29...	K52	60	140	41	8.5	35	4.0	110	42	42
SEP										
27...	52	120	220	62	17	76	4.4	191	82	90

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07350500 RED RIVER AT COUSHATTA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	608	326	E0.02	E0.02	E1.2	E1.2	E0.31	E0.08	9.0
NOV 15...	550	46	<0.01	<0.02	0.81	--	0.17	0.08	12
DEC 06...	579	48	0.01	<0.02	1.2	--	0.18	0.06	9.6
JAN 24...	188	1260	0.06	0.47	2.3	2.8	0.87	0.15	20
FEB 28...	177	247	0.04	0.21	0.84	1.0	0.21	0.13	8.7
MAR 15...	108	523	0.04	0.13	1.0	1.1	0.39	0.11	5.9
APR 11...	252	385	0.03	0.23	1.1	1.3	0.30	0.10	10
MAY 16...	304	585	0.07	0.28	1.2	1.5	0.50	0.24	9.0
JUN 20...	190	505	0.04	0.23	0.93	1.2	0.24	0.14	7.8
JUL 11...	205	163	0.03	0.15	0.71	0.86	0.18	0.12	7.9
AUG 29...	247	44	<0.01	0.02	0.72	0.74	0.10	0.06	8.7
SEP 27...	459	32	0.01	<0.02	0.82	--	0.12	0.07	2.4

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 25...	5	<10	<1	<10	7	6000	6	250
JAN 24...	7	<10	<1	20	18	20000	14	860
APR 11...	4	<10	1	10	7	8000	7	240
JUL 11...	3	<10	<1	6	5	4000	6	210

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 25...	<0.1	10	<1	30	<0.01	2	<1
JAN 24...	<0.1	28	<1	80	<0.01	<1	2
APR 11...	<0.1	10	<1	20	<0.01	<1	<1
JUL 11...	<0.1	5	<1	20	<0.01	<1	<1

< Actual value is known to be less than the value shown.
E Estimated.

07351500 CYPRESS BAYOU NEAR KEITHVILLE, LA

LOCATION.--Lat 32°18'00", long 93°49'40", in SW 1/4 sec.8, T.15 N., R.14 W., Caddo Parish, Hydrologic Unit 11140206, on downstream side of bridge on U.S. Highway 171, immediately downstream from Texas and Pacific Railroad bridge, 2.0 mi south of Keithville, and 6.0 mi upstream from mouth of Boggy Bayou.

DRAINAGE AREA.--66 mi².

PERIOD OF RECORD.--Sept. 26, 1938 to September 1957. October 1957 to September 1982 (annual maximum). Oct. 4, 1982, to current year.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 162.13 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges. Indefinite stage-discharge relationship: Oct. 1, 2, Nov. 18-20, 25-27, Nov. 29 to Dec. 17, Dec. 25-29, and Jan. 8-17. Records fair above 50 ft³/s and poor below. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years (1939-56, 1983-90), 78.1 ft³/s, 16.07 in/yr, 56,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,700 ft³/s, Aug. 3, 1955, gage height, 13.62 ft; no flow at times each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of July 1933 reached a stage of 18.0 ft, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 18	1400	6,130	11.25	May 13	0130	*8,760	*11.62
Feb. 3	1830	5,870	11.28	May 31	1300	5,150	11.17
Mar. 30	1000	7,440	11.48				

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.02	.00	e.50	85	95	86	204	9.2	2430	5.0	.83	.00
2	e.06	.00	e.40	16	1560	322	74	6.7	703	5.0	.85	.00
3	.00	.00	e.30	8.5	3100	311	40	5.8	107	4.1	.66	.00
4	.00	.00	e.20	102	1880	93	25	25	160	3.3	.61	.00
5	.00	.00	e.20	86	423	48	20	18	71	2.6	.69	.00
6	.00	.00	e.30	143	120	33	57	8.5	29	2.9	.71	.00
7	.00	.00	e.40	84	69	27	167	5.6	18	2.4	1.5	.00
8	.00	.00	e.20	e60	48	30	49	4.7	14	2.2	1.1	.00
9	.00	.17	e1.0	e50	128	32	27	4.3	11	2.0	.90	.00
10	.00	.51	e2.0	e40	1330	26	187	4.6	8.5	1.7	.75	.00
11	.00	.72	e1.5	e35	787	21	658	3.8	7.2	1.4	.60	.00
12	.00	.87	e.90	e32	197	18	155	1300	5.9	1.4	.48	.00
13	.00	.96	e.80	e29	77	15	44	3890	5.1	.98	.35	.00
14	.00	1.2	e.68	e27	48	27	352	565	4.3	.88	.23	.48
15	.00	2.0	e.58	e25	194	473	1170	82	3.8	.81	.14	.66
16	.00	2.7	e.54	e30	490	251	298	32	4.8	.79	.09	.51
17	.00	4.9	e.50	e50	125	63	64	231	4.1	.91	.07	.28
18	.00	e4.0	e.49	3380	50	34	33	139	3.2	3.0	.01	.14
19	.00	e3.0	e.60	3230	48	23	22	34	2.5	3.6	.00	.05
20	.00	e2.5	e.80	945	40	18	18	28	2.3	2.0	.00	.24
21	.00	5.3	e1.0	413	87	15	16	20	1.9	1.2	.00	.62
22	.00	11	e1.5	93	964	14	14	14	1.6	.93	2.6	.49
23	.00	44	e1.0	44	545	12	11	10	1.3	2.6	2.3	.72
24	.00	9.0	e.90	106	115	11	9.7	8.2	1.7	26	.79	1.7
25	.00	e4.0	e.80	275	53	10	8.5	6.3	2.9	7.2	.48	1.5
26	.00	e2.5	e.70	77	33	9.2	8.1	5.1	420	3.4	.26	1.2
27	.00	e1.5	e1.0	34	26	9.6	19	5.3	238	2.1	.11	1.0
28	.00	.96	e2.0	70	23	14	107	15	21	1.4	.00	.97
29	.00	e.80	e5.0	1120	---	164	41	12	10	.97	.00	.92
30	.00	e.60	52	627	---	3970	15	14	6.9	.84	.00	.87
31	.00	---	240	162	---	934	---	2860	---	.78	.00	---
TOTAL	0.08	103.19	318.79	11478.5	12655	7113.8	3913.3	9367.1	4300.0	94.39	17.11	12.35
MEAN	.003	3.44	10.3	370	452	229	130	302	143	3.04	.55	.41
MAX	.06	44	240	3380	3100	3970	1170	3890	2430	26	2.6	1.7
MIN	.00	.00	.20	8.5	23	9.2	8.1	3.8	1.3	.78	.00	.00
AC-FT	.2	205	632	22770	25100	14110	7760	18580	8530	187	34	24
CFSM	.00	.05	.16	5.61	6.85	3.48	1.98	4.58	2.17	.05	.01	.01
IN.	.00	.06	.18	6.47	7.13	4.01	2.21	5.28	2.42	.05	.01	.01
CAL YR 1989	TOTAL 45766.85			MEAN 125	MAX 4090	MIN .00	AC-FT 90780	CFSM 1.90	IN. 25.80			
WTR YR 1990	TOTAL 49373.61			MEAN 135	MAX 3970	MIN .00	AC-FT 97930	CFSM 2.05	IN. 27.83			

e Estimated.

07351500 CYPRESS BAYOU NEAR KEITHVILLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	1.73	2.31	4.53	4.39	4.02	5.47	2.10	10.55	1.63	1.13	.63
2	.95	1.75	2.35	2.89	9.89	6.58	3.85	1.95	8.65	1.63	1.15	.63
3	.92	1.86	2.38	2.63	10.65	6.49	3.15	1.90	4.29	1.55	1.05	.62
4	.90	1.96	2.39	4.80	10.23	4.26	2.75	2.67	5.06	1.47	1.03	.61
5	.88	1.94	2.40	4.67	7.29	3.47	2.57	2.48	3.75	1.39	1.08	.60
6	.87	1.92	2.42	5.68	4.62	3.12	3.29	2.06	2.77	1.43	1.10	.59
7	.94	1.95	2.49	4.63	3.84	2.95	5.10	1.88	2.39	1.38	1.33	.58
8	1.44	2.04	2.42	3.58	3.45	3.03	3.35	1.81	2.20	1.35	1.29	.58
9	1.74	2.15	2.41	2.99	4.64	3.09	2.79	1.78	2.04	1.33	1.22	.57
10	1.46	2.18	2.42	2.68	9.76	2.92	4.69	1.80	1.92	1.29	1.14	.61
11	1.41	2.19	2.45	2.49	9.06	2.75	8.82	1.74	1.84	1.25	1.07	.62
12	1.52	2.20	2.45	2.40	5.46	2.62	4.88	5.78	1.75	1.24	1.01	.63
13	1.56	2.21	2.45	2.32	4.01	2.53	3.24	10.79	1.68	1.16	.94	.65
14	1.57	2.22	2.48	2.25	3.48	2.77	6.20	8.00	1.62	1.12	.87	1.03
15	1.56	2.28	2.49	2.22	5.16	7.69	9.86	3.95	1.58	1.07	.83	1.18
16	1.58	2.32	2.48	2.25	7.85	5.86	6.24	2.93	1.66	1.06	.81	1.11
17	1.60	2.43	2.50	2.90	4.64	3.64	3.66	5.57	1.60	1.10	.80	.98
18	1.62	2.43	2.50	10.32	3.52	2.99	2.96	4.67	1.51	1.42	.77	.90
19	1.63	2.43	---	10.69	3.47	2.68	2.65	2.99	1.44	1.50	.73	.86
20	1.64	2.45	---	9.77	3.29	2.48	2.50	2.83	1.41	1.33	.69	.96
21	1.63	2.45	---	7.93	3.81	2.36	2.41	2.56	1.37	1.22	.67	1.17
22	1.63	2.65	---	4.79	9.49	2.32	2.32	2.33	1.33	1.14	1.18	1.10
23	1.65	3.58	---	3.75	8.00	2.27	2.21	2.16	1.28	1.36	1.49	1.19
24	1.66	2.59	---	4.79	4.55	2.22	2.13	2.05	1.33	2.60	1.20	1.50
25	1.67	2.29	2.51	7.16	3.57	2.15	2.06	1.93	1.44	1.79	1.05	1.47
26	1.66	2.09	2.49	4.48	3.13	2.11	2.04	1.84	7.19	1.49	.92	1.42
27	1.67	2.10	2.47	3.48	2.93	2.12	2.53	1.85	5.45	1.36	.84	1.38
28	1.67	2.21	2.48	4.02	2.81	2.32	4.35	2.37	2.44	1.27	.76	1.36
29	1.67	2.26	2.56	9.68	---	4.36	3.14	2.24	1.98	1.19	.70	1.34
30	1.70	2.28	3.76	8.80	---	10.82	2.37	2.33	1.77	1.13	.68	1.31
31	1.73	---	6.84	5.12	---	9.31	---	10.28	---	1.10	.65	---
MAX	1.74	3.58	---	10.69	10.65	10.82	9.86	10.79	10.55	2.60	1.49	1.50
MIN	.87	1.73	---	2.22	2.81	2.11	2.04	1.74	1.28	1.06	.65	.57

07351750 BAYOU PIERRE NEAR LAKE END, LA

LOCATION.--Lat 31°53'40", long 93°20'30", in E 1/2 sec.36, T.11 N., R.10 W., Natchitoches Parish, Hydrologic Unit 11140206, near left bank on downstream side of bridge on State Highway 174, 1/2 mi downstream from Jims River, and 2.9 mi southwest of Lake End.

DRAINAGE AREA.--860 mi².

PERIOD OF RECORD.--October 1980 to current year. November 30, 1959 to September 1980, annual maximum and miscellaneous measurements only.

GAGE.--Water stage recorder. Datum of gage is 90.00 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Prior to September 1980, nonrecording gage at same site. Water stage recorder for Bayou Pierre near Powhatan (station 07351750) used as auxiliary gage for this station at datum 83.61 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Indefinite stage-discharge relationship: Oct. 21 to Nov. 6, Nov. 12-22, Nov. 25-28, May 8-11, and June 18 to July 9. Records fair. Backwater from Red River. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 893 ft³/s, 647,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s, May 18, 1989, gage height, 33.58 ft; maximum gage height, 33.63 ft, May 19, 1989; minimum daily discharge, 12 ft³/s, June 10, 11, 15, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,100 ft³/s, June 3, gage height, 31.47 ft; maximum gage height 31.47 ft, June 2; minimum discharge, 58 ft³/s, Sept. 9, gage height, 0.91 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	e92	91	764	4420	1360	5060	662	10800	e168	91	65
2	66	e90	86	767	4830	1330	5030	574	10900	e160	91	64
3	66	e88	82	631	5500	1310	4220	656	11100	e155	84	63
4	65	e87	79	589	5860	1190	3320	1590	11000	e150	95	63
5	64	e86	76	634	6030	1080	2620	1990	10800	e146	149	62
6	63	e120	75	817	6120	979	2030	1830	10400	e142	123	61
7	63	142	79	1040	5790	879	1500	1250	9730	e138	112	60
8	62	137	80	1060	5040	787	1120	e740	8800	e136	112	59
9	62	130	81	924	4280	685	902	e530	7790	e134	150	59
10	69	127	82	765	5430	374	975	e510	6670	e131	219	61
11	66	123	81	636	5960	347	1540	e580	4750	e130	186	67
12	65	e116	79	529	6050	414	1680	2340	2860	e129	146	69
13	70	e112	77	436	5700	472	1620	6860	1860	e125	115	98
14	107	e108	74	361	4870	595	1790	7720	1330	e118	114	104
15	109	e106	72	300	4060	962	2820	7760	1050	e105	97	91
16	128	e104	69	258	3450	1080	3350	7330	862	95	90	80
17	254	e101	68	220	3020	992	3350	6730	772	88	87	73
18	289	e97	69	1250	2660	897	2840	6060	e680	83	86	71
19	205	e96	72	4080	2490	788	2230	5410	e600	86	84	73
20	144	e95	72	6760	2200	682	1790	4520	e520	112	82	75
21	e132	e95	72	7410	1930	673	1490	4110	e430	112	82	71
22	e126	e94	71	7410	2750	628	1220	3560	e360	112	82	70
23	e120	119	70	7050	3270	540	996	2770	e300	100	80	70
24	e115	179	69	6880	3430	457	853	2140	e260	96	78	68
25	e110	e305	68	6630	3150	e360	692	1670	e240	106	76	66
26	e107	e246	68	5520	2580	e300	587	1310	e215	167	74	66
27	e103	e174	68	4690	2010	e280	608	1100	e200	155	72	65
28	e100	e136	67	4030	1590	e250	773	1030	e190	126	71	64
29	e98	e110	73	4340	---	522	870	1010	e184	115	69	65
30	e96	100	483	4610	---	2660	766	1010	e174	108	68	63
31	e94	---	762	4610	---	4200	---	4700	---	98	67	---
TOTAL	3284	3715	3415	86001	114470	28073	58642	90052	115827	3826	3132	2086
MEAN	106	124	110	2774	4088	906	1955	2905	3861	123	101	69.5
MAX	289	305	762	7410	6120	4200	5060	7760	11100	168	219	104
MIN	62	86	67	220	1590	250	587	510	174	83	67	59
AC-FT	6510	7370	6770	170600	227100	55680	116300	178600	229700	7590	6210	4140
CAL YR 1989	TOTAL 596645		MEAN 1635		MAX 11500		MIN 62		AC-FT 1183000			
WTR YR 1990	TOTAL 512523		MEAN 1404		MAX 11100		MIN 59		AC-FT 1017000			

e Estimated.

RED RIVER BASIN

07351750 BAYOU PIERRE NEAR LAKE END, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.07	1.78	1.34	6.28	17.47	9.98	22.56	14.82	30.95	10.95	1.53	1.00
2	1.07	1.80	1.28	6.30	18.71	9.49	22.87	15.12	31.36	10.26	1.53	.98
3	1.06	1.79	1.24	5.44	20.34	9.10	21.77	15.35	31.43	9.44	1.45	.98
4	1.06	1.79	1.21	5.16	21.37	8.51	19.80	16.28	31.23	8.58	1.57	.98
5	1.04	1.75	1.18	5.46	22.22	7.95	17.73	16.85	30.79	7.44	2.09	.97
6	1.04	1.77	1.17	6.57	22.84	7.45	16.31	17.04	30.16	6.36	1.85	.95
7	1.03	1.84	1.21	7.77	22.54	6.92	16.07	16.99	29.40	5.70	1.75	.94
8	1.03	1.79	1.22	7.86	21.31	6.41	16.69	17.25	28.54	5.10	1.75	.93
9	1.03	1.72	1.24	7.16	19.82	6.20	17.46	17.93	27.64	4.19	2.10	.92
10	1.10	1.69	1.24	6.28	21.90	8.59	18.31	18.84	26.55	---	2.65	.96
11	1.06	1.66	1.23	5.48	22.60	11.69	19.43	19.84	24.65	---	2.34	1.03
12	1.06	1.65	1.21	4.77	22.67	13.56	19.85	22.53	22.56	---	1.94	1.05
13	1.10	1.65	1.18	4.15	21.98	14.48	19.72	27.23	20.90	---	1.61	1.41
14	1.50	1.63	1.15	3.59	20.33	14.65	19.66	28.90	19.64	---	1.60	1.48
15	1.52	1.63	1.13	3.14	18.31	15.12	20.59	29.72	18.65	---	1.40	1.32
16	1.70	1.63	1.11	2.83	16.51	15.66	21.08	30.07	17.87	1.57	1.32	1.18
17	2.79	1.60	1.09	2.54	15.23	16.03	20.97	30.19	17.20	1.50	1.28	1.09
18	3.06	1.61	1.10	8.02	14.21	16.37	20.17	30.08	16.41	1.44	1.26	1.07
19	2.40	1.61	1.13	16.63	13.48	16.56	18.97	29.79	15.50	1.48	1.23	1.10
20	1.85	1.62	1.13	22.07	12.76	16.57	17.65	29.13	14.81	1.75	1.21	1.12
21	1.80	1.61	1.13	23.12	12.34	16.30	16.37	28.44	14.50	1.75	1.21	1.08
22	1.78	1.60	1.13	23.12	14.16	15.78	15.32	27.51	14.33	1.74	1.22	1.06
23	1.77	1.61	1.11	22.47	15.18	15.27	14.63	26.44	14.15	1.63	1.19	1.06
24	1.76	2.16	1.10	22.15	15.36	14.92	14.14	25.41	13.95	1.58	1.16	1.04
25	1.77	3.18	1.09	21.90	14.76	14.76	13.89	24.51	13.62	1.68	1.13	1.02
26	1.78	2.74	1.09	20.03	13.50	14.64	13.98	23.72	13.03	2.24	1.11	1.02
27	1.77	2.13	1.09	18.17	12.12	14.43	14.16	23.07	12.76	2.14	1.08	1.00
28	1.77	1.78	1.08	16.60	10.95	14.16	14.32	22.59	12.27	1.88	1.07	.99
29	1.77	---	1.14	17.64	---	14.26	14.52	22.22	11.71	1.77	1.05	1.00
30	1.78	1.43	4.22	18.13	---	17.71	14.64	21.91	11.33	1.70	1.04	.98
31	1.77	---	6.27	18.10	---	20.83	---	24.76	---	1.60	1.02	---
MAX	3.06	---	6.27	23.12	22.84	20.83	22.87	30.19	31.43	---	2.65	1.48
MIN	1.03	---	1.08	2.54	10.95	6.20	13.89	14.82	11.33	---	1.02	.92

07351930 RED RIVER AT GRAND Ecore, LA

LOCATION.--Lat 31°49'05", long 93°05'05' in NE 1/4 sec.51, T.10N., R.7W., Natchitoches Parish, Hydrologic Unit 1114027, at bridge on State Highway 6 at Grand Ecore, and 4.0 mi north of Natchitoches.

DRAINAGE AREA.--64,575 mi², of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Water-quality samples are non-integrated and collected from center span of bridge.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT										
25...	0900	1010	8.07	18.5	40	85	8.9	38	2.8	1100
NOV										
15...	1315	897	8.16	20.5	40	24	9.2	24	3.1	610
DEC										
06...	0930	1010	8.02	13.0	50	26	12.1	69	4.8	1800
JAN										
24...	0900	322	7.59	13.5	120	250	9.1	68	3.0	K450
FEB										
28...	1015	318	7.20	14.0	80	--	10.4	38	6.4	660
MAR										
15...	1000	183	7.49	17.0	80	--	8.5	250	3.3	960
APR										
11...	1130	464	7.76	16.0	40	--	8.3	41	1.5	640
MAY										
16...	0930	491	7.61	22.0	30	250	6.7	44	1.8	1000
JUN										
20...	0930	316	7.65	29.5	60	--	8.2	46	2.8	K200
JUL										
11...	0945	389	7.37	30.0	50	--	6.6	40	1.8	K350
AUG										
29...	1000	500	7.47	31.5	15	20	7.7	33	2.4	100
SEP										
27...	0915	805	8.03	25.0	30	16	8.3	48	3.8	270

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT										
25...	120	88	280	76	22	94	5.6	203	120	130
NOV										
15...	100	K28	270	73	21	87	5.3	200	100	110
DEC										
06...	56	54	290	72	26	97	4.9	221	110	120
JAN										
24...	310	320	92	26	6.5	22	2.9	98	24	26
FEB										
28...	92	--	81	24	5.2	24	2.6	57	33	33
MAR										
15...	140	160	62	19	3.5	11	2.4	53	17	16
APR										
11...	160	260	120	35	8.0	37	2.9	70	59	55
MAY										
16...	220	1400	140	--	9.4	41	3.3	112	56	64
JUN										
20...	42	84	96	29	5.7	21	2.6	82	24	28
JUL										
11...	K28	K50	110	33	7.5	30	3.2	98	34	41
AUG										
29...	54	52	150	44	9.7	39	4.0	123	44	50
SEP										
27...	220	280	230	63	17	76	4.4	196	82	90

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07351930 RED RIVER AT GRAND ECORE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	590	239	E0.02	E0.06	E1.2	E1.3	E0.24	E0.08	9.6
NOV 15...	533	53	0.01	<0.02	0.96	--	0.19	0.07	7.9
DEC 06...	590	68	0.01	<0.02	1.1	--	0.18	0.05	11
JAN 24...	172	1050	0.07	0.34	1.9	2.2	0.54	0.20	19
FEB 28...	178	231	0.04	0.22	0.88	1.1	0.20	0.14	8.6
MAR 15...	113	381	0.05	0.13	1.0	1.1	0.38	0.14	6.2
APR 11...	263	382	0.03	0.23	1.0	1.3	0.36	0.10	11
MAY 16...	300	681	0.07	0.32	1.1	1.4	0.66	0.24	9.8
JUN 20...	174	483	0.05	0.21	1.2	1.4	0.24	0.17	8.2
JUL 11...	215	333	0.04	0.19	0.7	0.89	0.25	0.14	9.2
AUG 29...	277	55	0.01	0.02	1.0	1.0	0.10	0.06	8.1
SEP 27...	467	38	0.01	<0.02	0.88	--	0.13	0.06	3.7

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 25...	4	<10	1	<10	6	4900	10	300
JAN 24...	8	<10	<1	20	14	19000	14	630
APR 11...	4	<10	<1	10	9	10000	8	300
JUL 11...	4	<10	<1	8	7	6400	8	320

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 25...	0.2	9	<1	20	<0.01	<1	<1
JAN 24...	<0.1	25	<1	80	<0.01	<1	2
APR 11...	<0.1	14	<1	30	<0.01	4	<1
JUL 11...	<0.1	8	<1	20	<0.01	3	<1

< Actual value is known to be less than the value shown.
E Estimated.

07352000 SALINE BAYOU NEAR LUCKY, LA

LOCATION.--Lat 32°15'00", long 92°58'35", in SW 1/4 sec.27, T.15 N., R.6 W., Bienville Parish, Hydrologic Unit 11140208, near center of span on downstream side of bridge on State Highway 4, 0.7 mi downstream from Sixmile Creek, and 1.0 mi east of Lucky.

DRAINAGE AREA.--154 mi².

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

REVISED RECORDS.--WSP 1177: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 152.65 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 28, 1949, nonrecording gage, Mar. 1, 1949 to Apr. 26, 1971, water-stage recorder, at same site and datum.

REMARKS.--Estimated daily discharge. Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--50 years, 168 ft³/s, 14.81 in/yr, 121,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s Jan. 1, 1945, gage height, 12.90 ft, from rating curve extended above 6,400 ft³/s on basis of records for Black Lake Bayou near Castor and Dugdemona River near Jonesboro; minimum discharge, 2.4 ft³/s, Aug. 14, 1954; minimum gage height, 1.66 ft, Aug. 7, 8, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 21	0900	*3,950	*9.00	Mar. 31	2300	1,780	7.65
Feb. 4	1700	1,430	7.35	May 13	0600	1,910	7.76
Feb. 12	0400	1,390	7.32	June 3	0300	1,220	7.17

Minimum discharge, 14 ft³/s, Sept. 9, gage-height, 2.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	44	36	366	920	242	1540	96	689	31	42	15
2	33	41	36	303	989	378	986	66	946	29	46	15
3	29	37	36	242	991	467	681	61	1090	28	41	18
4	25	36	34	212	1320	446	418	325	852	31	48	19
5	23	36	35	202	1260	374	262	502	550	30	39	18
6	23	53	36	259	939	277	234	415	437	34	67	16
7	23	62	47	304	718	235	239	283	474	39	67	16
8	26	62	54	326	516	224	239	157	329	33	50	16
9	26	55	49	291	395	252	226	122	182	29	39	15
10	25	47	45	235	847	318	242	102	129	25	29	28
11	23	45	42	183	1090	379	294	81	102	23	24	43
12	22	44	40	141	1280	340	266	617	89	22	22	61
13	22	45	38	115	928	258	231	1790	82	23	23	99
14	22	48	38	100	670	227	223	1560	74	22	37	75
15	21	50	37	91	442	366	274	1100	63	22	33	45
16	50	52	35	86	311	531	303	713	55	23	37	31
17	91	63	34	101	259	564	268	421	50	24	36	26
18	90	63	37	1050	232	597	209	270	45	26	28	43
19	54	59	46	1860	217	443	165	277	41	31	24	46
20	39	55	47	3120	211	272	137	250	38	83	22	37
21	35	54	44	3630	219	217	119	217	34	79	20	33
22	34	75	38	2100	434	189	108	209	31	39	22	34
23	33	134	e32	1140	541	175	97	203	32	29	30	51
24	32	183	28	944	523	163	85	190	36	28	33	41
25	31	153	32	913	525	148	74	141	34	29	31	30
26	31	95	41	760	377	134	68	104	33	26	22	24
27	31	65	48	813	255	126	66	98	34	24	19	22
28	30	52	49	757	221	135	114	119	33	21	19	20
29	30	45	61	821	---	353	133	97	34	20	18	19
30	32	39	188	822	---	1030	139	76	32	24	17	18
31	43	---	384	973	---	1380	---	161	---	40	16	---
TOTAL	1067	1892	1747	23260	17630	11240	8440	10823	6650	967	1001	974
MEAN	34.4	63.1	56.4	750	630	363	281	349	222	31.2	32.3	32.5
MAX	91	183	384	3630	1320	1380	1540	1790	1090	83	67	99
MIN	21	36	28	86	211	126	66	61	31	20	16	15
AC-FT	2120	3750	3470	46140	34970	22290	16740	21470	13190	1920	1990	1930
CFSM	.22	.41	.37	4.87	4.09	2.35	1.83	2.27	1.44	.20	.21	.21
IN.	.26	.46	.42	5.62	4.26	2.72	2.04	2.61	1.61	.23	.24	.24

CAL YR 1989	TOTAL 129909	MEAN 356	MAX 8050	MIN 21	AC-FT 257700	CFSM 2.31	IN. 31.38
WTR YR 1990	TOTAL 85691	MEAN 235	MAX 3630	MIN 15	AC-FT 170000	CFSM 1.52	IN. 20.70

e Estimated.

RED RIVER BASIN

07352000 SALINE BAYOU NEAR LUCKY, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.41	3.53	3.63	5.90	6.86	5.45	7.44	4.40	6.52	3.05	3.28	2.63
2	3.32	3.47	3.61	5.72	6.94	5.93	6.93	4.08	6.88	3.00	3.36	2.62
3	3.24	3.39	3.61	5.45	6.94	6.14	6.52	4.00	7.04	2.97	3.25	2.71
4	3.17	3.38	3.58	5.27	7.25	6.09	6.02	5.61	6.77	3.04	3.39	2.75
5	3.13	3.39	3.59	5.20	7.21	5.92	5.56	6.21	6.29	3.02	3.21	2.72
6	3.12	3.67	3.62	5.55	6.88	5.63	5.41	6.02	6.07	3.11	3.74	2.66
7	3.12	3.81	3.80	5.73	6.58	5.41	5.44	5.60	6.15	3.23	3.75	2.65
8	3.19	3.81	3.91	5.79	6.23	5.34	5.44	4.89	5.77	3.10	3.45	2.64
9	3.18	3.71	3.84	5.68	5.97	5.51	5.36	4.63	5.06	3.00	3.23	2.62
10	3.17	3.57	3.77	5.41	6.75	5.77	5.44	4.46	4.62	2.90	3.00	2.98
11	3.13	3.54	3.73	5.07	7.04	5.93	5.70	4.26	4.36	2.85	2.89	3.35
12	3.10	3.52	3.70	4.78	7.22	5.83	5.59	5.92	4.22	2.84	2.83	3.70
13	3.08	3.55	3.67	4.57	6.86	5.54	5.39	7.66	4.13	2.85	2.86	4.27
14	3.08	3.59	3.65	4.44	6.51	5.36	5.34	7.46	4.02	2.82	3.18	3.96
15	3.07	3.63	3.64	4.36	6.08	5.89	5.62	7.05	3.85	2.82	3.10	3.44
16	3.57	3.66	3.60	4.31	5.75	6.27	5.72	6.57	3.73	2.85	3.18	3.14
17	4.19	3.82	3.59	4.43	5.55	6.33	5.59	6.02	3.62	2.88	3.16	3.02
18	4.18	3.83	3.64	6.90	5.39	6.39	5.25	5.61	3.53	2.93	2.97	3.39
19	3.69	3.76	3.78	7.71	5.30	6.07	4.95	5.64	3.45	3.04	2.88	3.47
20	3.43	3.71	3.81	8.57	5.26	5.60	4.75	5.50	3.39	4.01	2.83	3.29
21	3.36	3.69	3.75	8.84	5.31	5.30	4.61	5.30	3.31	3.93	2.77	3.20
22	3.34	3.98	3.66	7.89	6.05	5.12	4.52	5.25	3.25	3.22	2.82	3.20
23	3.33	4.64	---	7.09	6.29	5.01	4.42	5.21	3.25	3.01	3.03	3.56
24	3.30	5.07	3.43	6.89	6.25	4.94	4.30	5.12	3.31	2.98	3.10	3.37
25	3.30	4.86	3.54	6.85	6.25	4.83	4.18	4.78	3.23	2.99	3.04	3.12
26	3.28	4.39	3.71	6.65	5.92	4.73	4.10	4.48	3.20	2.94	2.83	2.98
27	3.28	4.06	3.82	6.72	5.52	4.66	4.07	4.42	3.22	2.88	2.75	2.92
28	3.26	3.89	3.83	6.64	5.33	4.73	4.56	4.61	3.19	2.81	2.74	2.87
29	3.26	3.77	4.00	6.73	---	5.72	4.72	4.41	3.20	2.78	2.71	2.84
30	3.30	3.67	5.00	6.73	---	6.97	4.76	4.20	3.12	2.87	2.70	2.81
31	3.50	---	5.95	6.92	---	7.31	---	4.80	---	3.23	2.67	---
MAX	4.19	5.07	---	8.84	7.25	7.31	7.44	7.66	7.04	4.01	3.75	4.27
MIN	3.07	3.38	---	4.31	5.26	4.66	4.07	4.00	3.12	2.78	2.67	2.62

07352800 GRAND BAYOU NEAR COUSHATTA, LA

LOCATION.--Lat 32°02'55", long 93°18'10", in SW 1/4 SW 1/4 sec.4, T.12 N., R.9 W., Red River Parish, Hydrologic Unit 11140209, near right bank on downstream side of bridge on State Highway 155, 0.5 mi upstream from Carroll Creek, and 3.3 mi north of Coushatta.

DRAINAGE AREA.--93.9 mi².

PERIOD OF RECORD.--October 1956 to September 1977. June 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 136.26 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Records fair below 100 ft³/s and good above.

AVERAGE DISCHARGE.--32 years (water years 1957-77, 1980-90), 97.6 ft³/s, 14.11 in/yr, 70,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft³/s, May 18, 1989, gage height, 14.04 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	0430	2,980	9.86	May 4	1800	1,440	8.93
Feb. 4	1430	1,240	8.75	May 12	1830	3,470	10.10
Feb. 11	0600	1,440	8.93	June 1	0100	*9,090	*12.51
Mar. 31	0130	1,060	8.57				

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.06	.80	109	504	47	890	15	6980	.60	.00	.00
2	.22	.22	.63	54	612	166	628	9.8	2410	.48	.00	.00
3	.17	.20	.29	29	788	270	382	20	956	.41	.00	.00
4	.09	.20	.10	42	1150	221	100	922	e400	.40	.00	.00
5	.00	.17	.27	88	902	107	44	1060	e150	.36	.00	.00
6	.00	.38	.28	136	627	61	35	623	e200	.26	.00	.00
7	.00	.21	.44	239	420	45	45	267	e110	.23	.00	.00
8	.00	1.2	.48	238	173	38	53	55	e50	.15	.00	.00
9	.00	4.1	.61	141	126	40	44	32	e20	.16	.00	.00
10	.00	2.5	.66	70	803	52	163	24	e12	.11	.00	.00
11	.00	2.0	.81	42	1320	50	436	17	e9.0	.06	.00	.00
12	.00	1.4	1.1	28	928	39	410	1180	e8.0	.00	.00	.00
13	.00	.99	1.2	20	619	31	250	2930	e7.0	.00	.00	.00
14	.00	.91	1.1	16	391	32	214	1530	e5.0	.00	.00	.00
15	.00	1.0	1.3	13	140	257	498	896	e4.0	.00	.00	.00
16	3.8	.96	1.2	12	83	449	550	549	e3.5	.00	.00	.00
17	14	.88	1.1	12	63	509	423	266	e3.1	.00	.00	.00
18	13	.72	1.2	443	48	391	150	170	e2.8	.00	.00	.30
19	8.6	.67	1.7	2050	44	124	50	114	2.7	.00	.00	.06
20	3.9	.54	1.7	2720	46	50	32	56	2.3	.00	.00	.00
21	2.0	.52	e1.8	2120	55	33	24	237	2.0	.00	.00	.00
22	.90	.69	e2.0	1300	353	25	18	188	1.6	.00	.00	.00
23	.46	6.6	e2.1	710	437	21	15	92	1.3	.00	.00	.00
24	.21	64	e2.2	650	431	18	12	39	1.1	.00	.00	.00
25	.03	50	e2.4	649	296	16	9.8	22	1.0	.00	.00	.00
26	.00	20	e2.4	632	97	14	8.0	14	.96	.00	.00	.00
27	.00	9.9	2.4	554	53	12	7.2	10	.85	.00	.00	.00
28	.00	4.6	2.5	438	43	11	15	30	.82	.00	.00	.00
29	.00	2.9	3.1	536	---	61	35	58	.77	.00	.00	.00
30	.01	1.4	13	558	---	744	28	66	.68	.00	.00	.00
31	.00	---	94	544	---	1010	---	3600	---	.00	.00	---
TOTAL	47.75	179.92	144.87	15193	11552	4944	5569.0	15091.8	11346.48	3.22	0.00	0.36
MEAN	1.54	6.00	4.67	490	413	159	186	487	378	.10	.000	.012
MAX	14	64	94	2720	1320	1010	890	3600	6980	.60	.00	.30
MIN	.00	.06	.10	12	43	11	7.2	9.8	.68	.00	.00	.00
AC-FT	95	357	287	30140	22910	9810	11050	29930	22510	6.4	.00	.7
CFSM	.02	.06	.05	5.22	4.39	1.70	1.98	5.18	4.03	.00	.00	.00
IN.	.02	.07	.06	6.02	4.58	1.96	2.21	5.98	4.50	.00	.00	.00

CAL YR 1989	TOTAL 87240.62	MEAN 239	MAX 12700	MIN .00	AC-FT 173000	CFSM 2.55	IN. 34.56
WTR YR 1990	TOTAL 64072.40	MEAN 176	MAX 6980	MIN .00	AC-FT 127100	CFSM 1.87	IN. 25.38

e Estimated.

RED RIVER BASIN

07352800 GRAND BAYOU NEAR COUSHATTA, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.29	1.25	1.33	4.40	7.64	3.24	8.37	2.25	11.60	1.22	.91	.78
2	1.27	1.28	1.29	3.38	7.94	5.11	7.95	2.01	9.58	1.19	.92	.76
3	1.27	1.28	1.22	2.77	8.22	6.21	6.96	2.22	8.45	1.17	.94	.77
4	1.25	1.28	1.18	3.11	8.67	5.75	4.21	8.07	---	1.17	.92	.76
5	1.19	1.27	1.21	4.06	8.38	4.36	3.17	8.55	---	1.15	.91	.75
6	1.19	1.32	1.22	4.77	7.96	3.55	2.94	7.93	---	1.13	.89	.73
7	1.20	1.28	1.25	5.92	7.21	3.18	3.20	6.02	---	1.12	.89	.72
8	1.21	1.40	1.26	5.91	5.22	3.02	3.38	3.40	---	1.10	.87	.71
9	1.22	1.71	1.28	4.85	4.62	3.06	3.16	2.84	---	1.10	.85	.70
10	1.23	1.55	1.29	3.73	8.12	3.36	4.55	2.58	---	1.08	.84	.73
11	1.21	1.50	1.32	3.10	8.83	3.31	7.37	2.33	---	1.07	.83	.81
12	1.20	1.42	1.37	2.72	8.41	3.05	7.23	5.94	---	1.05	.82	.82
13	1.19	1.37	1.39	2.45	7.94	2.82	5.96	9.83	---	1.03	.80	.84
14	1.18	1.35	1.38	2.28	7.03	2.83	5.41	8.99	---	1.01	.79	.92
15	1.16	1.38	1.40	2.17	4.82	6.02	7.61	8.36	---	1.00	.78	.92
16	1.57	1.36	1.38	2.09	3.98	7.42	7.77	7.75	---	1.02	.77	.90
17	2.22	1.35	1.38	2.10	3.58	7.65	7.26	6.10	---	1.01	.75	.89
18	2.20	1.32	1.39	6.64	3.27	7.07	4.86	5.24	---	1.01	.74	1.06
19	2.04	1.31	1.45	9.32	3.18	4.55	3.30	4.45	---	1.00	.73	.94
20	1.75	1.28	1.45	9.73	3.21	3.30	2.85	3.42	1.48	.99	.71	.87
21	1.56	1.28	1.53	9.41	3.39	2.88	2.59	5.89	1.45	.98	.71	.84
22	1.42	1.31	---	8.78	6.83	2.63	2.38	5.43	1.41	.98	.74	.82
23	1.33	1.61	---	8.11	7.38	2.49	2.26	4.14	1.37	.97	.78	.89
24	1.28	3.60	---	8.00	7.35	2.39	2.13	3.05	1.35	.97	.80	.86
25	1.24	3.29	---	8.02	6.39	2.28	2.01	2.53	1.34	.97	.80	.83
26	1.19	2.47	---	7.99	4.19	2.19	1.91	2.23	1.32	.96	.81	.81
27	1.18	2.06	1.54	7.78	3.39	2.11	1.87	2.04	1.29	.94	.91	.82
28	1.18	1.74	1.55	7.37	3.14	2.08	2.26	2.79	1.29	.93	.90	.81
29	1.21	1.60	1.61	7.73	---	3.18	2.90	3.48	1.27	.92	.87	.79
30	1.23	1.42	2.14	7.80	---	8.03	2.71	3.66	1.24	.90	.84	.77
31	1.23	---	4.12	7.75	---	8.51	---	9.49	---	.91	.81	---
MAX	2.22	3.60	---	9.73	8.83	8.51	8.37	9.83	---	1.22	.94	1.06
MIN	1.16	1.25	---	2.09	3.14	2.08	1.87	2.01	---	.90	.71	.70

07352895 BLACK LAKE BAYOU NEAR CLARENCE, LA

LOCATION.--Lat 31°52'24", long 92°58'00", in NW 1/4 SE 1/4 sec.3, T.10 N., R.6 W., Natchitoches Parish, Hydrologic Unit 11140209, on downstream side of bridge on State Highway 1226, 1.8 mi northeast of Chivery Dam, 2.8 mi upstream from Allen Dam, and 5.0 mi northeast of Clarence.

DRAINAGE AREA.--908 mi² (see REMARKS).

PERIOD OF RECORD.--December 1969 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 88.49 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1980, at datum 6.00 ft higher.

REMARKS.--Drainage area does not include 412 mi² of Saline Lake. Flows are interchangeable between Black and Saline Lakes, combined usable capacity, 161,000 acre-ft. Considerable regulation by Chivery Dam. Lakes are used for recreation. Lake was drained by Department of Transportation and Development for repairs to spillway from Sept. 15-30. Lowest recorded stage, 3.62 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 25.76 ft, July 6, 1989, from floodmark; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.69 ft, June 3; minimum not determined.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.68	9.48	8.31	9.09	15.91	11.27	10.35	8.84	18.88	8.96	7.72	7.46
2	9.66	9.49	8.30	9.07	16.00	10.96	10.84	8.72	19.53	8.80	7.71	7.44
3	9.65	9.46	8.28	9.03	16.19	10.67	11.23	8.62	19.65	8.64	7.70	7.46
4	9.62	9.44	8.24	9.05	16.43	10.42	11.49	8.61	19.58	8.50	7.71	7.35
5	9.60	9.43	8.22	9.03	16.55	10.22	11.69	8.53	19.37	8.38	7.71	7.10
6	9.58	9.49	8.20	9.11	16.59	10.05	11.79	8.55	19.13	8.28	7.70	6.88
7	9.58	9.50	8.26	9.20	16.62	9.89	11.74	8.82	18.89	8.18	7.67	6.66
8	9.56	9.54	8.28	9.26	16.65	9.75	11.64	9.17	18.64	8.10	7.66	6.43
9	9.53	9.53	8.23	9.31	16.60	9.64	11.56	9.59	18.39	8.02	7.65	6.21
10	9.51	9.52	8.19	9.34	16.89	9.52	11.58	10.04	18.16	7.98	7.65	5.94
11	9.49	9.52	8.21	9.34	17.02	9.41	11.71	10.48	17.91	7.95	7.65	5.61
12	9.48	9.52	8.19	9.33	17.01	9.34	11.80	11.46	17.61	7.95	7.65	5.37
13	9.47	9.51	8.15	9.26	16.88	9.25	11.91	13.34	17.26	7.95	7.65	5.10
14	9.45	9.51	8.13	9.22	16.67	9.18	12.06	14.88	16.88	7.89	7.66	4.83
15	9.43	9.51	8.14	9.20	16.43	9.31	12.22	15.94	16.46	7.85	7.66	4.55
16	9.51	9.23	8.11	9.17	16.21	9.39	12.26	16.69	16.01	7.82	7.65	4.23
17	9.61	9.00	8.09	9.15	15.88	9.51	12.25	17.35	15.54	7.80	7.64	3.97
18	9.61	8.85	8.10	9.44	15.52	9.66	12.18	17.89	15.06	7.80	7.64	3.90
19	9.61	8.71	8.11	9.88	15.13	9.85	12.02	18.37	14.57	7.80	7.63	3.83
20	9.56	8.61	8.10	11.81	14.69	9.96	11.77	18.77	14.05	7.80	7.63	3.76
21	9.55	8.52	8.10	13.44	14.27	9.98	11.47	19.00	13.51	7.79	7.62	3.72
22	9.54	8.48	8.10	14.38	14.07	9.92	11.10	19.01	12.92	7.77	7.61	3.70
23	9.54	8.42	8.09	15.03	13.77	9.83	10.72	18.91	12.30	7.79	7.62	3.67
24	9.54	8.34	8.07	15.59	13.40	9.72	10.35	18.72	11.67	7.83	7.63	---
25	9.54	8.30	8.05	16.23	12.99	9.59	10.00	18.48	11.09	7.81	7.62	---
26	9.53	8.30	8.05	16.42	12.55	9.45	9.72	18.19	10.55	7.80	7.61	---
27	9.51	8.31	8.05	16.35	12.11	9.30	9.50	17.90	10.08	7.77	7.58	---
28	9.50	8.32	8.05	16.22	11.66	9.18	9.34	17.61	9.73	7.76	7.56	---
29	9.49	8.30	8.09	16.29	---	9.18	9.13	17.28	9.43	7.75	7.54	---
30	9.50	8.30	8.49	16.24	---	9.56	8.98	16.95	9.17	7.75	7.53	---
31	9.51	---	9.01	16.08	---	9.94	---	17.19	---	7.74	7.49	---
MAX	9.68	9.54	9.01	16.42	17.02	11.27	12.26	19.01	19.65	8.96	7.72	---
MIN	9.43	8.30	8.05	9.03	11.66	9.18	8.98	8.53	9.17	7.74	7.49	---

07353520 NANTACHIE LAKE NEAR ALOHA, LA

LOCATION.--Lat 31°37'00", long 92°47'04", in SE 1/4 NW 1/4 sec.4, T.7 N., R.4 W., Grant Parish, Hydrologic Unit 11140207, at dam 2.0 mi upstream from mouth, and 2.5 mi northwest of Aloha.

DRAINAGE AREA.--80.4 mi².

PERIOD OF RECORD.--February 1969 to September 1979. October 1979 to current year (gage heights only).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 92.28 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--No gage heights recorded below 2.14 ft. Reservoir is formed on Nantachie Creek by earthfill dam, completed in 1964. Storage began Oct. 19, 1964. The dam contains a 150-ft concrete spillway. The crest of the spillway is 3.05 ft gage height. Drawdown structure consists of one 5- by 5-ft metal sluice gate that can be varied from -16.78 to -11.78 ft gage height. Area of lake is 1,580 acres, usable capacity, 11,200 acre-ft at 3.05 ft gage height. Reservoir is used for recreation.

AVERAGE DISCHARGE.--9 years (water years 1970-72, 1974-79), 72.6 ft³/s, 52,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s, Dec. 27, 1982, gage height, 9.39 ft; no flow at times most years. Reverse flow possible May 1973 and May 1990.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.32 ft, May 19; minimum, 2.45 ft, Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.87	2.78	2.83	3.37	4.09	3.41	3.93	3.29	4.96	3.21	3.03	2.71
2	2.87	2.78	2.84	3.36	3.95	3.52	3.85	3.27	5.36	3.19	3.02	2.72
3	2.87	2.76	2.84	3.34	3.94	3.58	3.69	3.25	5.21	3.18	3.02	2.71
4	2.86	2.75	2.82	3.41	4.04	3.60	3.57	3.34	4.96	3.22	3.01	2.70
5	2.85	2.75	2.82	3.44	4.01	3.55	3.49	3.32	4.64	3.19	3.01	2.68
6	2.84	2.76	2.83	3.51	3.92	3.48	3.46	3.28	4.43	3.19	3.00	2.68
7	2.85	2.77	2.96	3.59	3.81	3.42	3.43	3.26	4.39	3.17	2.98	2.66
8	2.83	2.80	3.02	3.60	3.69	3.40	3.24	3.24	4.51	3.14	2.95	2.64
9	2.81	2.81	3.03	3.57	3.64	3.38	3.37	3.25	4.56	3.12	2.93	2.63
10	2.80	2.80	3.03	3.49	3.73	3.36	3.39	3.24	4.41	3.10	2.91	2.62
11	2.79	2.80	3.05	3.41	3.78	3.34	3.49	3.21	4.10	3.09	2.90	2.61
12	2.79	2.79	3.06	3.35	3.82	3.33	3.58	3.26	3.75	3.10	2.88	2.61
13	2.78	2.79	3.05	3.29	3.79	3.32	3.60	4.48	3.51	3.17	2.88	2.60
14	2.77	2.79	3.05	3.26	3.69	3.32	3.62	5.87	3.39	3.13	2.92	2.60
15	2.77	2.81	3.06	3.24	3.64	3.67	3.71	6.91	3.31	3.11	2.92	2.61
16	2.79	2.79	3.05	3.22	3.60	3.85	3.74	7.87	3.25	3.10	2.91	2.61
17	2.84	2.76	3.05	3.22	3.52	3.87	3.71	8.57	3.21	3.09	2.90	2.59
18	2.83	2.75	3.08	3.94	3.48	3.81	3.59	9.05	3.19	3.09	2.88	2.58
19	2.82	2.75	3.10	4.63	3.46	3.68	3.49	9.26	3.16	3.08	2.87	2.57
20	2.79	2.75	3.10	5.34	3.44	3.55	3.43	9.23	3.14	3.07	2.86	2.56
21	2.78	2.76	3.11	5.50	3.44	3.47	3.41	8.98	3.12	3.06	2.85	2.55
22	2.77	2.80	3.11	4.91	3.57	3.41	3.38	8.51	3.11	3.05	2.85	2.56
23	2.77	2.84	3.11	4.39	3.70	3.38	3.34	7.95	3.10	3.08	2.84	2.56
24	2.77	2.83	3.11	4.21	3.74	3.36	3.32	7.36	3.07	3.10	2.83	2.53
25	2.77	2.83	3.11	4.40	3.66	3.33	3.29	6.73	3.14	3.10	2.82	2.51
26	2.77	2.85	3.10	4.23	3.54	3.31	3.28	6.14	3.22	3.10	2.80	2.50
27	2.76	2.85	3.11	4.08	3.46	3.29	3.30	5.62	3.19	3.08	2.79	2.48
28	2.76	2.87	3.11	4.00	3.40	3.29	3.37	5.24	3.17	3.07	2.77	2.48
29	2.75	2.86	3.14	4.50	---	3.44	3.34	4.81	3.14	3.05	2.75	2.46
30	2.76	2.84	3.21	4.58	---	3.83	3.32	4.40	3.15	3.04	2.74	2.45
31	2.79	---	3.34	4.35	---	3.94	---	4.24	---	3.04	2.73	---
MAX	2.87	2.87	3.34	5.50	4.09	3.94	3.93	9.26	5.36	3.22	3.03	2.72
MIN	2.75	2.75	2.82	3.22	3.40	3.29	3.28	3.21	3.07	3.04	2.73	2.45

07354100 KISATCHIE BAYOU AT LOTUS, LA

LOCATION.--Lat 31°29'04", long 93°08'19", NW 1/4 SE 1/4 sec.24, T.6 N., R.8 W., Natchitoches Parish, Hydrologic Unit 11140207, at right bank on downstream side of bridge on unnumbered parish road, 0.5 mi west of Lotus, 1.2 mi downstream from Sheard Branch, and 4.8 mi southeast of Bellwood.

DRAINAGE AREA.--140 mi².

PERIOD OF RECORD.--Occasional low-flow measurements water years 1956-63 (published as "near Bellwood"). December 1979 to current year. Gage-height records and discharge measurements December 1938 to July 1942 and January 1956 to September 1979 are in reports of Corps of Engineers, New Orleans District.

REVISED RECORDS.--WDR LA-82-1: 1982(P).

GAGE.--Water-stage recorder. Datum of gage is 123.57 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to January 1956 at datum 1.24 ft higher.

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

AVERAGE DISCHARGE.--10 years, 219 ft³/s, 21.24 in/yr, 158,700 acre-ft/yr.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1939, reached a stage of 19.3 ft, present datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,700 ft³/s, Dec. 27, 1983, gage height, 18.17 ft, from rating curve extended above 8,960 ft³/s, on basis of contracted-opening measurement at gage height, 18.17 ft; minimum 2.8 ft³/s, Oct. 4, 5, 6, 7, 1982; minimum gage height, 1.94 ft Oct. 6, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	1600	*9,050	*16.80	Jan. 29	1100	5,990	16.28
Jan. 25	1200	7,890	16.64				

Minimum discharge, 11 ft³/s, Sept. 5, 6, 7, 8, 9; minimum gage height, 3.86 ft, Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	32	18	260	405	193	273	60	1850	58	23	12
2	18	25	18	117	682	494	196	52	447	53	25	12
3	18	20	18	137	968	361	152	50	174	41	29	12
4	17	18	18	928	1020	220	124	683	205	36	26	12
5	17	18	18	539	437	174	111	312	144	74	23	12
6	16	18	18	1360	331	152	131	120	100	125	22	11
7	16	20	63	1420	287	144	202	83	81	53	50	11
8	16	27	171	746	258	137	128	73	70	41	38	13
9	16	33	69	294	915	133	102	462	64	35	25	12
10	16	26	43	185	1180	125	272	229	59	32	21	21
11	16	20	34	139	545	117	766	104	56	30	20	32
12	14	18	30	116	315	111	232	80	53	29	20	19
13	14	17	26	95	251	106	138	85	50	29	19	16
14	14	17	24	84	225	105	204	77	48	28	19	16
15	16	17	24	81	357	1120	549	64	46	28	20	22
16	56	18	23	76	314	522	215	55	44	28	18	22
17	191	17	22	74	211	248	130	54	42	28	17	17
18	57	16	24	4580	192	171	102	54	40	29	16	14
19	33	17	30	6470	300	138	89	49	39	28	16	53
20	25	17	36	7890	232	118	82	46	38	28	19	38
21	21	19	35	4320	383	108	76	44	36	29	24	21
22	20	22	29	732	2600	103	76	41	35	36	26	22
23	19	49	21	468	611	98	70	37	34	31	28	31
24	18	58	20	1590	313	93	62	35	33	31	22	20
25	17	35	21	7300	235	89	58	33	32	32	19	16
26	17	28	23	1690	199	84	54	32	32	30	17	14
27	16	25	26	534	179	81	114	31	44	27	16	13
28	16	25	26	511	168	85	189	369	41	25	15	13
29	15	21	31	4900	---	1150	136	354	35	24	14	12
30	16	18	178	1330	---	2510	77	101	34	23	14	12
31	25	---	1020	527	---	576	---	114	---	22	13	---
TOTAL	804	711	2157	49493	14113	9866	5110	3983	4006	1143	674	551
MEAN	25.9	23.7	69.6	1597	504	318	170	128	134	36.9	21.7	18.4
MAX	191	58	1020	7890	2600	2510	766	683	1850	125	50	53
MIN	14	16	18	74	168	81	54	31	32	22	13	11
AC-FT	1590	1410	4280	98170	27990	19570	10140	7900	7950	2270	1340	1090
CFSM	.19	.17	.50	11.4	3.60	2.27	1.22	.92	.95	.26	.16	.13
IN.	.21	.19	.57	13.15	3.75	2.62	1.36	1.06	1.06	.30	.18	.15

CAL YR 1989	TOTAL 139799	MEAN 383	MAX 10900	MIN 14	AC-FT 277300	CFSM 2.74	IN. 37.15
WTR YR 1990	TOTAL 92611	MEAN 254	MAX 7890	MIN 11	AC-FT 183700	CFSM 1.81	IN. 24.61

RED RIVER BASIN

07354100 KISATCHIE BAYOU AT LOTUS, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.07	4.47	4.04	7.21	8.51	6.94	7.72	5.41	13.16	4.94	4.17	3.92
2	4.06	4.27	4.04	5.90	9.93	9.00	7.09	5.26	8.57	4.86	4.24	3.91
3	4.05	4.12	4.05	6.04	11.01	8.24	6.66	5.22	6.57	4.59	4.37	3.91
4	4.02	4.06	4.04	10.58	11.13	7.20	6.35	9.66	6.84	4.46	4.28	3.91
5	4.00	4.04	4.03	8.90	8.70	6.77	6.18	7.92	6.24	4.97	4.17	3.90
6	3.98	4.06	4.05	12.07	8.02	6.54	6.40	6.29	5.67	5.94	4.14	3.89
7	3.98	4.10	4.97	12.19	7.70	6.45	7.14	5.78	5.39	4.85	4.88	3.88
8	3.98	4.34	6.45	9.81	7.47	6.37	6.38	5.62	5.20	4.60	4.62	4.00
9	3.97	4.48	5.23	7.50	10.61	6.33	6.06	8.81	5.08	4.44	4.28	3.94
10	3.99	4.31	4.73	6.63	11.74	6.22	7.19	7.33	4.99	4.35	4.17	4.24
11	3.99	4.12	4.53	6.17	9.27	6.12	10.24	6.08	4.92	4.31	4.12	4.63
12	3.89	4.04	4.41	5.89	7.90	6.05	7.37	5.75	4.86	4.28	4.11	4.26
13	3.87	4.00	4.31	5.62	7.42	5.99	6.51	5.81	4.81	4.26	4.11	4.13
14	3.90	4.00	4.26	5.46	7.19	5.97	7.00	5.70	4.76	4.25	4.09	4.15
15	3.99	4.03	4.24	5.41	8.17	11.28	9.34	5.48	4.72	4.23	4.14	4.37
16	4.78	4.03	4.21	5.34	7.89	9.15	7.24	5.32	4.66	4.23	4.07	4.37
17	6.61	3.99	4.18	5.31	7.06	7.44	6.41	5.30	4.61	4.24	4.04	4.18
18	5.00	3.98	4.24	13.08	6.88	6.74	6.06	5.29	4.57	4.25	4.02	4.09
19	4.50	3.99	4.43	16.17	7.80	6.38	5.89	5.20	4.54	4.25	4.00	5.00
20	4.28	4.02	4.58	16.58	7.24	6.14	5.78	5.12	4.51	4.23	4.13	4.82
21	4.17	4.07	4.55	14.76	7.79	6.01	5.69	5.08	4.47	4.27	4.32	4.35
22	4.12	4.19	4.38	10.18	14.12	5.94	5.68	5.02	4.43	4.48	4.37	4.36
23	4.09	4.81	4.15	8.89	9.59	5.87	5.58	4.94	4.40	4.33	4.45	4.64
24	4.05	5.03	4.11	10.84	7.93	5.80	5.45	4.88	4.38	4.33	4.27	4.30
25	4.03	4.55	4.14	16.54	7.33	5.74	5.37	4.84	4.36	4.39	4.15	4.16
26	4.01	4.35	4.22	12.10	7.01	5.66	5.30	4.80	4.37	4.33	4.09	4.08
27	3.98	4.28	4.30	9.25	6.81	5.62	6.12	4.77	4.65	4.24	4.04	4.04
28	3.96	4.27	4.31	9.02	6.70	5.67	7.01	7.50	4.58	4.20	4.01	4.02
29	3.95	4.14	4.44	15.82	---	10.92	6.45	8.15	4.43	4.17	3.98	4.00
30	3.98	4.06	5.99	11.74	---	14.06	5.70	6.03	4.41	4.14	3.96	3.98
31	4.28	---	10.87	9.21	---	9.44	---	5.90	---	4.13	3.94	---
MAX	6.61	5.03	10.87	16.58	14.12	14.06	10.24	9.66	13.16	5.94	4.88	5.00
MIN	3.87	3.98	4.03	5.31	6.70	5.62	5.30	4.77	4.36	4.13	3.94	3.88

07355130 RED RIVER AT BOYCE, LA (CE 04525)

LOCATION.--Lat 31°23'38", long 92°40'02", T.5 N., R.3 W., Grant-Rapides Parish line, Hydrologic Unit 11140207, near center of span on downstream side of bridge on State Highway 8, 0.2 mi east of Boyce, and at mile 135.0.

DRAINAGE AREA.--66,998 mi², of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1973-84, 1986 to current year.

REMARKS.--Water-quality samples are non-integrated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 24...	1730	957	8.11	19.0	30	26	9.5	28	2.5	K150
NOV 15...	1200	873	8.09	20.0	40	11	9.1	38	2.6	220
DEC 06...	0800	964	7.97	11.0	40	15	11.7	35	4.0	210
JAN 24...	0800	199	7.24	13.5	120	170	9.2	53	3.4	K500
FEB 28...	0830	234	7.48	13.0	80	--	9.8	40	2.1	250
MAR 15...	0830	194	7.45	18.0	80	--	8.1	140	2.3	560
APR 10...	1440	434	7.83	16.0	60	--	8.3	41	1.6	350
MAY 16...	0815	480	7.64	22.0	20	250	6.1	53	1.3	1000
JUN 19...	1415	297	7.46	29.5	40	--	6.4	40	2.2	K200
JUL 10...	1500	401	7.32	32.0	30	--	6.3	40	0.9	K150
AUG 29...	0830	527	7.55	31.0	10	13	7.3	36	1.4	K170
SEP 27...	0815	768	8.05	24.5	20	10	9.0	10	3.4	250

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 24...	K10	96	270	72	21	88	5.2	199	110	120
NOV 15...	K20	92	260	70	21	86	5.1	208	95	110
DEC 06...	68	610	270	68	25	94	4.7	208	110	120
JAN 24...	380	500	57	16	4.2	12	2.5	51	13	17
FEB 28...	84	--	64	19	4.1	16	2.4	52	20	20
MAR 15...	220	280	64	20	3.4	12	2.4	54	18	16
APR 10...	140	180	110	33	7.7	38	2.8	69	57	55
MAY 16...	88	1600	150	43	9.4	39	3.3	111	56	61
JUN 19...	K24	120	92	28	5.4	20	2.6	72	27	26
JUL 10...	K20	K60	120	34	7.7	29	3.1	97	36	44
AUG 29...	44	K36	160	46	10	40	4.0	121	51	55
SEP 27...	K130	92	220	62	17	73	4.3	194	77	86

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07355130 RED RIVER AT BOYCE, LA (CE 04525)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
24...	564	32	E0.01	E0.02	E0.76	E0.78	E0.12	E0.06	7.8
NOV									
15...	519	15	0.01	<0.02	0.78	--	0.17	0.07	9.7
DEC									
06...	557	27	0.01	<0.02	0.86	--	0.12	0.04	8.3
JAN									
24...	115	486	0.05	0.26	1.3	1.6	0.40	0.15	14
FEB									
28...	129	269	0.04	0.22	0.84	1.1	0.21	0.13	9.0
MAR									
15...	115	480	0.05	0.15	1.2	1.4	0.37	0.14	5.8
APR									
10...	249	377	0.03	0.23	1.0	1.3	0.21	0.10	11
MAY									
16...	295	657	0.08	0.34	1.1	1.4	0.87	0.24	8.9
JUN									
19...	157	353	0.04	0.19	1.0	1.2	0.26	0.14	6.6
JUL									
10...	223	226	0.04	0.23	0.72	0.95	0.19	0.13	7.7
AUG									
29...	280	27	<0.01	0.02	0.52	0.54	0.08	0.04	7.1
SEP									
27...	455	26	0.01	<0.02	0.90	--	0.12	0.05	4.0

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT								
24...	2	<10	<1	<10	2	830	5	150
JAN								
24...	4	<10	<1	20	10	11000	12	340
APR								
10...	4	<10	<1	10	7	8000	9	220
JUL								
10...	4	<10	<1	5	7	5600	8	260

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT							
24...	0.1	3	<1	10	<0.01	2	1
JAN							
24...	<0.1	13	<1	50	<0.01	<1	7
APR							
10...	<0.1	11	<1	30	<0.01	2	<1
JUL							
10...	<0.1	6	<1	20	<0.01	<1	<1

< Actual value is known to be less than the value shown.
E Estimated.

07355500 RED RIVER AT ALEXANDRIA, LA

LOCATION.--Lat 31°18'46", long 92°26'34", in SE 1/4 sec.10, T.4 N., R.1 W., Rapides Parish, Hydrologic Unit 08040301, near center of span on downstream side of Murray Street bridge between Alexandria and Pineville, and 1.7 mi downstream from Bayou Rigolette. Water-quality sampling site at center of channel 0.3 mi downstream.

DRAINAGE AREA.--67,500 mi², of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1947, 1952-62, 1969, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1952 to September 1963, June 1973 to September 1981.

WATER TEMPERATURES: October 1952 to September 1963, June 1973 to September 1984.

CHLORIDE: October 1974 to September 1984.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1982.

REMARKS.--Discharge data will be entered into the water-quality file when made available by the Army Corps of Engineers. Water-quality samples are non-integrated on all dates except Oct. 24, Feb. 27, Apr. 13, and July 10.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2.020 micromhos Oct. 8, 1956; minimum daily, 133 micromhos June 24, 1953.

WATER TEMPERATURES: Maximum daily, 34.0 °C Aug. 2, 8, 10, 1956; minimum daily, 0.0 °C Dec. 24, 25, 1983.

CHLORIDE: Maximum daily, 420 mg/L Oct. 12, 1978; minimum daily, 8.6 mg/L Apr. 7, 1977.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,495,000 tons Dec. 9, 1973; minimum daily, 1,000 tons Oct. 10-22, 1972, Oct. 1 to Nov. 7, 1978, Sept. 27-30, Oct. 1-4, 1980, Jan. 30-31, Apr. 24-25, Oct. 1-6, 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 24...	1245	914	8.23	20.0	30	4.7	9.5	2.4	36	K200	K48	130
NOV 14...	1600	885	8.05	20.0	30	14	8.3	2.7	36	430	54	64
DEC 05...	1515	911	8.07	14.0	30	14	11.2	3.9	36	K150	K4	K20
JAN 23...	1215	186	7.23	14.5	120	160	8.4	1.6	61	560	360	350
FEB 27...	1300	204	7.06	16.0	100	130	9.8	3.2	37	660	K68	84
MAR 14...	1445	216	7.36	19.0	80	200	8.5	2.8	86	480	160	190
APR 13...	1330	424	7.72	17.5	--	140	8.8	1.7	48	560	130	88
MAY 15...	1645	461	7.30	22.5	30	250	8.7	2.1	53	--	80	--
18...	--	--	--	--	--	--	--	--	--	480	--	950
JUN 19...	1300	291	7.50	30.0	30	--	7.5	2.8	40	K200	K25	92
JUL 10...	1400	395	7.24	31.0	30	110	6.2	1.1	40	K200	K20	58
AUG 28...	1615	586	7.38	31.0	10	11	7.7	1.8	17	240	130	210
SEP 26...	1715	643	8.00	28.0	10	7.2	8.0	2.8	<10	440	100	240

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
OCT 24...	260	71	20	87	4.6	180	100	120	0.2	6.6	518	511
NOV 14...	260	69	21	89	5.1	194	97	110	--	--	522	507
DEC 05...	270	67	24	87	4.6	199	99	110	--	--	533	511
JAN 23...	57	16	4.2	11	2.6	48	13	15	--	--	107	91
FEB 27...	61	18	3.8	15	2.4	55	19	14	0.2	6.7	124	107
MAR 14...	70	22	3.7	14	2.3	56	22	17	--	--	126	115
APR 13...	110	33	7.7	35	2.8	69	52	51	0.2	6.2	241	228
MAY 15...	140	42	8.6	36	6.1	114	38	58	--	--	265	257
JUN 19...	85	26	4.9	18	3.0	70	26	27	--	--	161	147
JUL 10...	120	34	7.8	30	3.0	96	33	43	0.2	6.1	225	213
AUG 28...	170	50	12	52	4.0	122	65	66	--	--	323	322
SEP 26...	190	51	14	57	3.7	157	62	70	--	--	370	352

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (µG/L AS AL)
OCT 24...	--	0.01	<0.01	<0.10	<0.10	0.04	0.01	0.80	0.08	<0.01	0.01	<10
NOV 14...	17	0.01	--	<0.02	--	--	--	0.74	0.14	--	--	--
DEC 05...	26	<0.01	--	<0.02	--	--	--	0.89	0.12	--	--	--
JAN 23...	478	0.05	--	0.24	--	--	--	1.2	0.32	--	--	--
FEB 27...	--	0.11	0.03	0.20	0.25	0.12	0.04	0.80	1.10	0.04	0.03	60
MAR 14...	707	0.06	--	0.15	--	--	--	1.2	0.54	--	--	--
APR 13...	230	0.09	<0.01	0.20	0.20	0.14	0.02	0.30	0.09	0.03	0.01	40
MAY 15...	795	0.06	--	0.32	--	--	--	1.1	1.00	--	--	--
JUN 19...	288	0.03	--	0.19	--	--	--	1.2	0.32	--	--	--
JUL 10...	250	0.03	<0.01	0.50	0.30	0.04	0.04	0.80	0.28	0.03	0.02	20
AUG 28...	17	<0.01	--	<0.02	--	--	--	0.55	0.08	--	--	--
SEP 26...	23	<0.01	<0.01	<0.02	<0.02	--	--	0.74	0.10	0.10	0.03	--

< Actual value is known to be less than the value shown.

RED RIVER BASIN

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07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)
OCT 24...	2	<1	150	<10	<0.5	<1	<1	<1	<10	<3	2	4
FEB 27...	4	<1	46	<10	<0.5	<1	<1	<1	<10	<3	5	4
APR 13...	5	1	89	<10	<0.5	<1	1	<1	10	<3	8	4
JUL 10...	4	1	100	<10	<0.5	<1	<1	<1	5	<3	8	3

DATE	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)
OCT 24...	470	<3	4	<1	11	120	6	<0.1	<0.1	<10	3	--
FEB 27...	6000	110	11	1	<4	210	6	<0.1	0.1	<10	8	1
APR 13...	9600	90	11	1	4	280	11	<0.1	<0.1	<10	13	6
JUL 10...	4900	15	9	<1	6	290	3	0.1	<0.1	<10	6	2

DATE	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 24...	<1	<1	<1	680	<6	20	9	6.8	<0.01	<1	<1
NOV 14...	--	--	--	--	--	--	--	9.1	--	--	--
DEC 05...	--	--	--	--	--	--	--	7.5	--	--	--
JAN 23...	--	--	--	--	--	--	--	10	--	--	--
FEB 27...	<1	<1	<1	130	<6	180	15	9.1	<0.01	<1	<1
MAR 14...	--	--	--	--	--	--	--	5.7	--	--	--
APR 13...	<1	<1	<1	260	<6	40	<3	10	<0.01	<1	2
MAY 15...	--	--	--	--	--	--	--	10	--	--	--
JUN 19...	--	--	--	--	--	--	--	7.7	--	--	--
JUL 10...	<1	<1	<1	260	<6	30	<3	8.2	<0.01	6	2
AUG 28...	--	--	--	--	--	--	--	7.1	--	--	--
SEP 26...	--	--	--	--	--	--	--	4.5	--	--	--

DATE	GROSS ALPHA, DIS- SOLVED (µG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (µG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (µG/L AS U)
OCT 24...	3.0	1.2	6.9	2.0	6.2	1.6	0.15	0.01
MAR 14...	<0.4	1.5	2.5	2.2	2.0	2.0	0.05	<0.01

< Actual value is known to be less than the value shown.

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)
OCT 24...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 05...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 27...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 13...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 19...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 28...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)
OCT 24...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01
DEC 05...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01
FEB 27...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 13...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 19...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 28...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)
OCT 24...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
DEC 05...	<0.01	<0.01	<0.01	<0.5	<0.01	0.2	<0.1	<0.1	<0.1
FEB 27...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
APR 13...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
JUN 19...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
AUG 28...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1

< Actual value is known to be less than the value shown.

07355600 RED RIVER AT MONCLA, LA (CE 04657)

LOCATION.--Lat 31°12'10", long 92°08'30", T.3 N., R.3 W., Avoyelles Parish, Hydrologic Unit 08040301, near center of span on downstream side of bridge on State Highway 115, 1.4 mi west of Moncla, and at mile 74.0.

DRAINAGE AREA.--67,625 mi², of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1971, 1973, 1984, 1986 to current year.

REMARKS.--Water-quality samples are non-integrated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT										
24...	1115	995	7.89	20.0	15	11	9.0	29	1.5	250
NOV										
14...	1445	919	8.06	20.0	30	7.0	7.8	24	1.0	K80
DEC										
05...	1400	900	8.01	15.0	30	8.3	9.8	31	2.3	K500
JAN										
23...	1050	182	7.15	14.0	120	180	8.6	60	2.3	800
FEB										
27...	1100	218	7.37	14.0	100	--	9.9	40	4.9	480
MAR										
14...	1315	228	7.43	19.0	80	200	8.0	46	2.1	520
APR										
10...	1230	426	7.66	16.5	30	--	8.5	42	2.3	410
MAY										
15...	1530	447	7.27	22.0	30	--	6.8	55	1.2	--
18...	--	--	--	--	--	250	--	--	--	600
JUN										
19...	1130	299	7.51	29.5	30	--	6.2	38	2.0	K100
JUL										
10...	1230	405	7.34	31.0	20	--	6.2	40	1.2	K100
AUG										
28...	1515	604	7.33	31.5	10	10	7.7	19	2.5	K90
SEP										
26...	1600	763	8.01	28.0	10	6.8	8.2	<10	2.4	210

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT										
24...	K10	K24	260	69	22	95	5.2	172	110	140
NOV										
14...	K36	K16	260	69	21	94	5.2	186	100	120
DEC										
05...	K10	K20	250	62	23	84	4.6	196	91	110
JAN										
23...	570	540	57	16	4.2	10	2.5	55	13	13
FEB										
27...	80	360	66	20	3.9	14	2.2	50	23	20
MAR										
14...	130	360	74	23	3.9	15	2.6	60	25	21
APR										
10...	220	130	120	34	7.7	38	2.8	69	55	55
MAY										
15...	92	--	140	42	8.6	35	4.6	109	36	53
18...	--	1400	--	--	--	--	--	--	--	--
JUN										
19...	K20	96	92	28	5.3	20	3.0	72	26	28
JUL										
10...	K16	K22	110	33	7.5	33	3.1	94	37	47
AUG										
28...	52	120	170	50	12	55	4.3	120	67	72
SEP										
26...	71	100	210	58	16	76	4.1	174	82	90

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07355600 RED RIVER AT MONCLA, LA (CE 04657)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	583	13	E0.01	E0.04	E0.50	E0.54	E0.09	E0.05	5.3
NOV 14...	538	1	0.01	0.05	0.56	0.61	0.09	0.07	7.9
DEC 05...	527	16	0.01	0.05	0.87	0.92	0.10	0.07	6.5
JAN 23...	113	475	0.03	0.15	1.3	1.5	0.40	0.08	14
FEB 27...	132	249	0.05	0.21	0.83	1.0	0.20	0.15	8.8
MAR 14...	136	748	0.06	0.17	1.4	1.6	0.52	0.15	5.0
APR 10...	252	479	0.04	0.23	1.2	1.4	0.30	0.11	11
MAY 15...	253	743	0.08	0.32	1.3	1.6	0.92	0.30	9.4
JUN 19...	166	171	0.04	0.19	0.90	1.1	0.27	0.14	8.0
JUL 10...	230	227	0.04	0.26	0.75	1.0	0.19	0.17	7.9
AUG 28...	335	19	<0.01	0.02	0.40	0.42	0.10	0.05	6.9
SEP 26...	444	21	0.02	0.04	0.58	0.62	0.09	0.04	5.0

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 24...	2	<10	<1	<10	2	290	6	80
JAN 23...	5	<10	<1	10	9	11000	10	380
APR 10...	5	<10	<1	10	9	11000	12	300
JUL 10...	3	<10	<1	6	7	5400	8	260

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 24...	<0.1	2	<1	40	<0.01	1	<1
JAN 23...	<0.1	14	<1	40	<0.01	2	2
APR 10...	<0.1	14	<1	30	<0.01	4	1
JUL 10...	<0.1	7	<1	20	<0.01	1	2

< Actual value is known to be less than the value shown.
E Estimated.

07355603 RED RIVER (ABOVE LOCK AND DAM 1) NEAR VICK, LA

LOCATION.--Lat 31°15'01", long 91°56'17", in SW 1/4 sec.11, T.3 N., R.5 E., Avoyelles Parish, Hydrologic Unit 08040301, near right bank, 10.1 mi east of Vick, and at mile 50.0.

DRAINAGE AREA.--67,700 mi², approximately, of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1984, 1986 to current year.

REMARKS.--Water-quality samples are non-integrated and collected from upstream side of lock.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT										
24...	1000	1070	7.82	20.5	15	7.0	8.6	19	1.6	K60
NOV										
14...	1345	922	8.02	20.0	30	4.6	8.4	25	1.0	K110
DEC										
05...	1300	897	7.98	17.0	30	5.3	9.5	41	1.8	230
JAN										
23...	1000	181	7.16	13.5	120	210	8.1	63	2.1	1200
FEB										
27...	1000	223	7.40	13.0	80	--	10.0	38	3.6	500
MAR										
14...	1215	238	7.43	18.5	80	--	7.6	130	3.6	640
APR										
10...	1100	428	7.67	18.0	30	--	8.4	41	1.4	680
MAY										
15...	1400	442	7.32	22.5	40	250	6.6	57	1.2	--
18...	--	--	--	--	--	--	--	--	--	500
JUN										
19...	1015	300	7.62	29.5	40	--	6.4	36	1.9	K150
JUL										
10...	1100	405	7.47	31.0	20	--	6.4	44	1.2	K60
AUG										
28...	1400	580	7.41	32.0	10	8.7	7.4	26	1.9	K160
SEP										
26...	1445	738	7.89	28.5	10	3.9	9.9	45	2.5	230

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT										
24...	K4	110	280	72	24	110	5.5	156	150	150
NOV										
14...	<2	K24	260	69	21	96	5.1	187	110	120
DEC										
05...	K12	<2	260	64	24	86	4.9	191	97	100
JAN										
23...	K680	600	60	17	4.2	9.8	2.5	53	12	12
FEB										
27...	K120	600	61	18	3.9	15	2.3	49	19	21
MAR										
14...	120	500	71	22	3.9	16	2.7	62	24	21
APR										
10...	130	130	110	32	7.1	35	2.9	68	37	53
MAY										
15...	140	--	130	40	8.3	35	4.9	99	51	54
18...	--	1300	--	--	--	--	--	--	--	--
JUN										
19...	K44	96	92	28	5.3	20	3.0	72	27	27
JUL										
10...	K30	K28	120	34	7.6	30	3.2	89	38	47
AUG										
28...	56	84	160	45	11	50	3.8	123	58	64
SEP										
26...	48	120	210	58	16	72	4.0	174	77	89

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07355603 RED RIVER (ABOVE LOCK AND DAM 1) NEAR VICK, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 24...	631	9	E0.01	E0.07	E0.60	E0.67	E0.08	E0.07	4.5
NOV 14...	543	16	0.01	0.06	0.43	0.49	0.08	0.07	7.1
DEC 05...	527	11	0.01	0.05	0.64	0.69	0.08	0.06	6.9
JAN 23...	104	519	0.02	0.13	1.1	1.2	0.35	0.06	12
FEB 27...	135	225	0.04	0.22	0.89	1.1	0.22	0.14	8.8
MAR 14...	138	834	0.06	0.18	1.4	1.6	0.29	0.17	5.5
APR 10...	254	485	0.04	0.24	1.0	1.3	0.31	0.11	11
MAY 15...	273	887	0.08	0.32	1.2	1.5	0.84	0.06	10
JUN 19...	165	310	0.04	0.20	0.80	1.0	0.23	0.15	7.2
JUL 10...	225	218	0.04	0.26	0.92	1.2	0.17	0.15	7.4
AUG 28...	325	17	<0.01	0.02	0.65	0.67	0.08	0.05	6.4
SEP 26...	424	16	0.01	<0.02	0.67	--	0.08	0.03	--

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 24...	2	<10	<1	<10	3	280	2	60
JAN 23...	5	<10	<1	10	10	12000	9	420
APR 10...	5	<10	<1	10	9	11000	8	320
JUL 10...	3	<10	<1	7	7	6400	5	250

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV- GRAVI- METRIC (MG/L)
OCT 24...	<0.1	3	<1	<10	<0.01	2	<1
JAN 23...	<0.1	17	<1	40	<0.01	<1	2
APR 10...	<0.1	14	<1	30	<0.01	19	1
JUL 10...	<0.1	8	<1	30	<0.01	4	3

< Actual value is known to be less than the value shown.
E Estimated.

07355650 LARTO LAKE AT DAM, NEAR ACME, LA

LOCATION.--Lat 31°20'01", long 91°56'10", in SW 1/4 sec.11, T.4 N., R.5 E., Catahoula Parish, Hydrologic Unit 08040301, at dam 3.0 mi west of Argo, 4.2 mi upstream from mouth of Larto Bayou, and 7.7 mi northwest of Acme.

DRAINAGE AREA.--291 mi².

PERIOD OF RECORD.--December 1968 to September 1976 (gage heights only), October 1976 to September 1977, December 1978 to April 1986, and June 1987 to September 1990, elevations only (discontinued).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1976, at datum 33.00 ft higher; June 17, 1987 water-stage recorder, at site 1,000 ft east at same datum.

REMARKS.--Reservoir is formed from a natural oxbow lake by an earthfill dam, completed in 1959. The dam consists of a 57-ft concrete spillway and a 10-ft wide timber gate. The crest of the dam is at an elevation of 45.45 ft, and the invert of the spillway is at 36.95 ft. The capacity at elevation of 36.95 ft is estimated to be 15,000 acre-ft. Outflow between elevation of 30.95 ft and 36.95 ft is regulated by the timber gate. Lake is used for recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 59.26 ft, present datum, from floodmark, occurred during period May 14-18, 1973; minimum not determined.

EXTREMES FOR CURRENT PERIOD.--Maximum elevation, 49.46 ft, June 11; minimum, 36.08 ft, Nov. 22.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.64	36.30	---	---	40.79	44.19	44.57	40.80	47.56	42.67	37.32	36.74
2	36.62	36.26	---	---	40.79	44.24	44.73	40.73	47.81	42.09	37.29	36.72
3	36.62	36.24	---	---	40.77	44.20	44.86	40.67	47.93	41.47	37.28	36.71
4	36.61	36.21	---	---	40.81	44.10	44.94	40.65	---	40.83	37.26	36.70
5	36.59	36.22	---	36.94	40.92	43.94	44.94	40.62	---	40.24	37.23	36.67
6	36.58	36.23	---	37.18	41.14	43.78	44.80	40.55	---	39.77	37.23	36.66
7	36.56	36.22	---	37.44	41.38	43.60	44.57	40.44	---	39.43	37.20	36.63
8	36.52	36.26	---	37.63	41.60	43.39	44.43	40.35	---	39.16	37.17	36.62
9	36.51	36.24	---	37.72	41.90	43.15	44.40	40.45	49.23	38.93	37.14	36.61
10	36.50	36.22	---	37.76	42.22	42.91	44.43	40.48	49.32	38.73	37.11	36.64
11	36.53	36.21	---	37.75	42.48	43.03	44.50	40.53	49.41	38.56	37.09	36.67
12	36.51	36.20	---	37.73	42.73	43.43	44.47	40.64	49.45	38.42	37.07	36.68
13	36.51	36.19	---	37.67	42.99	43.71	44.40	41.07	49.42	38.38	37.06	36.68
14	36.49	36.19	---	37.63	43.21	43.80	44.27	41.77	49.36	38.25	37.04	36.69
15	36.48	36.23	---	37.60	43.39	43.99	44.12	42.58	49.26	38.15	37.01	36.69
16	36.50	36.20	---	37.56	43.54	44.13	43.96	43.38	---	38.05	37.00	36.68
17	36.49	36.15	---	37.55	43.69	44.22	43.79	44.13	---	38.01	36.98	36.67
18	36.45	36.14	---	37.97	43.77	44.32	43.57	44.66	---	37.95	36.96	36.69
19	36.40	36.13	---	38.64	43.84	44.43	43.32	45.08	---	37.88	36.94	36.70
20	36.37	36.13	---	39.19	43.81	44.48	43.08	45.49	---	37.81	36.93	36.69
21	36.36	36.12	---	39.50	43.83	44.52	42.79	45.86	47.70	37.74	36.92	36.69
22	36.36	36.20	---	39.48	44.12	44.52	42.47	46.19	47.12	37.68	36.90	36.69
23	36.36	36.26	---	39.34	44.32	44.51	42.13	46.42	46.57	37.65	36.89	36.67
24	36.35	36.22	---	39.41	44.41	44.50	41.80	46.62	46.11	37.66	36.86	36.62
25	36.34	36.21	---	40.02	44.45	44.44	41.59	46.73	45.69	37.61	36.85	36.60
26	36.33	36.22	---	40.26	44.40	44.37	41.38	46.87	45.25	37.56	36.83	36.58
27	36.32	36.22	---	40.29	44.35	44.33	41.25	46.97	44.80	37.51	36.81	36.57
28	36.32	36.35	---	40.30	44.27	44.31	41.17	47.14	44.21	37.47	36.80	36.56
29	36.31	36.34	---	40.47	---	44.35	41.02	47.20	43.72	37.43	36.78	36.55
30	36.32	36.30	---	40.61	---	44.41	40.91	47.21	43.22	37.39	36.77	36.54
31	36.30	---	---	40.74	---	44.47	---	47.31	---	37.35	36.76	---
MAX	36.64	36.35	---	---	44.45	44.52	44.94	47.31	---	42.67	37.32	36.74
MIN	36.30	36.12	---	---	40.77	42.91	40.91	40.35	---	37.35	36.76	36.54

07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 33°01'52", long 92°05'16", in SE 1/4 NE 1/4 sec.25, T.19 S., R.10 W., Union County, Hydrologic Unit 08040202, on right bank 500 ft below lock and dam No. 6, 1.6 mi north of Arkansas-Louisiana State line, 3.5 mi downstream from Missouri Pacific Railroad Co. bridge, and 4.5 mi southeast of Felsenthal, Ark.

DRAINAGE AREA.--10,787 mi².

PERIOD OF RECORD.--April 1958 to current year (daily gage heights and daily discharges below 19.0 ft stage only). Gage-height record for some periods collected at same site since 1912 are contained in reports of Corps of Engineers, Vicksburg District.

REVISED RECORDS.--WDR LA-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 44.09 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 26, 1958, nonrecording gage at same site and datum. Water-stage recorder for Ouachita River at Sterlington (station 07364535) used as auxiliary gage for this station. Prior to Oct. 1, 1980, water-stage recorder for Ouachita River at Alabama Landing near Haile (station 07364103) was used as auxiliary gage for this station.

REMARKS.--Estimated daily discharges: Sept. 23, 24, 1989, and Sept. 7-8, 1990. Records poor. Discharge computed for stages below bankfull, about 19 ft. Considerable regulation by 5 reservoirs in Arkansas, combined capacity, 3,107,880 acre-ft and a series of navigation locks and dams. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.04 ft, May 14, 15, 1958 (discharge not determined); minimum daily discharge, 190 ft³/s Sept. 13, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since 1912, 44.2 ft, Apr. 11, 12, 1945; minimum, -0.3 ft, Nov. 11, 1916; minimum since 1928, 5.8 ft, Aug. 25, 1951.

EXTREMES FOR CURRENT YEAR.--Water year 1989: maximum gage height, 35.09 ft, Mar. 9; minimum daily discharge 960 ft³/s, Oct. 7.

Water year 1990: maximum gage height, 36.91 ft, Apr. 15; minimum daily discharge, 638 ft³/s, Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1640	2010										5080
2	1550	1320										4650
3	2110	1320										4660
4	1250	2020										4830
5	1220	1960										4410
6	1090	2210										2930
7	960	2010										2140
8	969	1120										3480
9	1180	1140										4430
10	1050	1780										4640
11	1090	1370										4650
12	1130	1670										4790
13	1530	3860										3030
14	1680	2490										4150
15	1780	3100										3780
16	1850	3670										3610
17	1890	3230										2110
18	1890	1960										1790
19	1830	2510									9390	1080
20	2470	4830									7900	2480
21	2480	5360									6250	3480
22	2660	5640									3970	2700
23	2790	6780									4090	e2500
24	2430	9710									4180	e2000
25	1280	12500	12400								4390	2480
26	1640		10900								4450	2730
27	2030		9060								4380	1660
28	2380		10400								4510	2680
29	2380		10800								4400	3180
30	2990										2720	3270
31	4130	---									3270	---
TOTAL	57349	---	---	---	---	---	---	---	---	---	---	99400
MEAN	1850	---	---	---	---	---	---	---	---	---	---	3313
MAX	4130	---	---	---	---	---	---	---	---	---	---	5080
MIN	960	---	---	---	---	---	---	---	---	---	---	1080

e Estimated.

07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2980	2270	2730	5920							2490	3440
2	3070	2790	2010	5890							4340	3380
3	3000	3030	1970	6550						---	3230	2590
4	3420	4260	1750	7670						---	2570	1660
5	3430	4130	2080	5200						---	3060	2200
6	3360	4570	1780	3320						---	2900	888
7	3630	3110	1920	2280						---	2700	e1000
8	3680	4080	1910	1560						---	2350	e1500
9	3420	4230	1900	8360						---	2270	e1800
10	2850	4510	2080	11300						---	2420	2150
11	1370	4670	1740	9240						---	2750	723
12	2110	4160	1840	7020						5000	2730	817
13	2620	3180	2050	6110						4000	2700	1290
14	3250	2560	1860	4550						2500	3350	1020
15	3050	2130	1890	3680						1700	1930	676
16	1700	3220	1730	3080						1200	2290	742
17	646	3070	1700	3130						800	2330	2320
18	3850	3490	1920	8120						590	2370	1890
19	3610	3400	1850	13500						550	2750	2040
20	2690	3870	2110							600	3410	3720
21	2790	2180	1640							1200	2400	3380
22	1940	2440	1580							2780	2440	4210
23	1310	2460	1660							3040	3100	3690
24	1880	2670	1670							3350	3290	2740
25	1790	2920	2070							2070	2510	1050
26	2400	2200	2620							2050	2310	836
27	2840	2240	1830							2560	2970	638
28	1880	2400	2140							3150	2560	935
29	1900	1870	2180		---					3500	2930	991
30	1900	2340	2800		---					4090	4050	2640
31	1890	---	6350		---		---		---	3700	3470	---
TOTAL	80256	94450	65360	---	---	---	---	---	---	---	86970	56956
MEAN	2589	3148	2108	---	---	---	---	---	---	---	2805	1899
MAX	3850	4670	6350	---	---	---	---	---	---	---	4340	4210
MIN	646	1870	1580	---	---	---	---	---	---	---	1930	638

e Estimated.

07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.43	8.73	20.27	21.18	26.30	34.09	30.92	26.37	25.24	21.26	28.66	12.71
2	8.41	8.20	20.99	21.55	26.17	34.39	30.83	25.84	24.76	22.07	28.48	11.14
3	8.77	8.20	22.24	21.83	26.02	34.59	30.84	25.32	24.26	23.14	28.24	10.68
4	8.14	8.69	22.37	21.95	25.88	34.72	30.96	24.97	23.81	24.35	27.95	11.07
5	8.11	8.70	22.64	22.06	25.80	34.85	31.18	24.92	23.43	25.58	27.62	10.22
6	8.01	8.81	22.84	22.28	25.73	34.94	31.54	25.11	23.12	26.63	27.24	9.33
7	7.89	8.74	23.07	22.30	25.68	35.01	31.99	25.36	22.87	27.52	26.82	8.87
8	7.88	8.05	23.47	22.34	25.68	35.05	32.49	25.69	22.71	28.16	26.34	9.62
9	8.04	8.03	23.78	22.34	25.68	35.08	32.90	25.99	22.56	28.62	25.86	10.19
10	7.96	8.47	24.07	22.27	25.73	35.08	33.19	26.18	22.48	28.89	25.33	10.58
11	7.98	8.25	24.23	22.13	25.82	35.05	33.44	26.28	22.41	29.04	24.76	10.57
12	8.02	8.44	24.24	22.26	25.93	35.00	33.58	26.29	22.43	29.10	24.13	11.04
13	8.31	9.80	24.19	22.43	26.09	34.93	33.47	26.24	22.50	29.10	23.48	9.42
14	8.47	9.03	23.96	22.98	26.30	34.85	33.34	26.13	22.67	29.03	22.80	10.31
15	8.57	9.34	23.61	23.76	26.57	34.71	33.21	25.89	22.94	28.89	22.10	9.81
16	8.64	9.73	23.16	24.51	26.86	34.55	33.06	25.59	23.23	28.81	21.39	9.70
17	8.66	9.43	22.62	25.14	27.20	34.40	32.88	25.28	23.56	28.63	20.72	8.80
18	8.65	8.67	22.10	25.65	27.61	34.20	32.60	25.17	23.90	28.52	19.88	8.61
19	8.62	8.99	21.49	26.06	28.04	33.95	32.22	25.23	24.15	28.47	18.90	8.05
20	8.95	11.09	20.77	26.41	28.59	33.74	31.80	25.41	24.32	28.41	18.02	8.90
21	9.00	13.26	20.09	26.68	29.29	33.55	31.37	25.61	24.39	28.38	17.06	9.50
22	9.13	15.04	19.72	26.93	29.89	33.31	30.94	25.80	24.32	28.38	15.68	9.10
23	9.21	16.15	19.37	27.11	30.48	33.04	30.48	26.09	24.09	28.40	14.77	---
24	8.98	17.27	19.16	27.26	31.17	32.77	30.00	26.25	23.72	28.45	13.79	---
25	8.18	18.24	18.96	27.32	31.91	32.48	29.49	26.36	23.20	28.52	13.36	8.90
26	8.44	19.52	18.43	27.29	32.62	32.20	28.96	26.40	22.62	28.62	12.67	9.10
27	8.73	20.33	17.72	27.15	33.21	31.93	28.41	26.39	22.03	28.70	11.76	8.44
28	8.98	20.91	18.22	26.96	33.71	31.64	27.88	26.31	21.50	28.74	11.33	9.05
29	8.96	21.38	18.38	26.74	---	31.40	27.42	26.17	21.08	28.78	10.78	9.41
30	9.31	21.58	19.68	26.61	---	31.23	26.92	25.95	20.99	28.79	9.27	9.43
31	10.01	---	20.66	26.44	---	31.05	---	25.64	---	28.76	9.98	---
MAX	10.01	21.58	24.24	27.32	33.71	35.08	33.58	26.40	25.24	29.10	28.66	---
MIN	7.88	8.03	17.72	21.18	25.68	31.05	26.92	24.92	20.99	21.26	9.27	---

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.30	8.78	9.17	11.53	22.77	30.81	35.63	34.12	31.94	27.02	9.00	9.65
2	9.37	9.16	8.60	11.59	23.11	30.62	35.71	33.83	32.09	26.94	10.28	9.60
3	9.30	9.32	8.57	11.97	23.68	30.38	35.79	33.59	32.35	---	9.56	9.07
4	9.61	10.19	8.38	12.59	24.43	30.13	35.93	33.35	32.72	---	9.07	8.33
5	9.61	10.11	8.67	11.36	25.38	29.88	36.07	33.08	33.12	---	9.38	8.80
6	9.57	10.37	8.44	10.73	26.40	29.60	36.21	32.84	33.44	---	9.29	8.40
7	9.75	9.40	8.52	10.64	27.42	29.32	36.34	32.61	33.72	---	9.12	---
8	9.80	10.00	8.52	10.64	28.40	29.30	36.46	32.39	33.95	---	8.80	---
9	9.61	10.16	8.47	13.63	29.30	29.59	36.55	32.19	34.09	---	8.77	---
10	9.22	10.36	8.67	14.81	30.27	29.92	36.66	32.00	34.19	---	8.93	8.80
11	8.08	10.46	8.37	13.70	31.05	30.26	36.72	31.82	34.20	19.75	9.16	8.32
12	8.72	10.14	8.46	12.36	31.60	30.61	36.77	31.76	34.15	18.65	9.16	8.35
13	9.06	9.46	8.65	11.70	32.01	31.01	36.79	31.85	34.02	17.35	9.13	8.54
14	9.45	8.99	8.48	10.63	32.30	31.49	36.84	31.83	33.84	15.54	9.59	8.45
15	9.34	8.70	8.50	9.96	32.54	32.31	36.89	31.80	33.62	13.65	8.55	8.30
16	8.42	9.48	8.34	9.44	32.68	33.32	36.89	31.74	33.34	11.82	8.79	8.34
17	7.62	9.38	8.31	9.47	32.73	34.35	36.81	32.03	33.03	10.27	8.88	8.97
18	9.79	9.65	8.52	12.75	32.73	35.22	36.70	32.23	32.71	8.99	8.91	8.76
19	9.65	9.60	8.45	15.88	32.69	35.81	36.62	32.26	32.35	8.58	9.16	8.82
20	9.18	9.94	8.66	18.98	32.57	36.17	36.52	32.18	31.99	8.72	9.63	9.90
21	9.22	8.72	8.26	20.39	32.44	36.38	36.38	32.12	31.58	8.86	8.93	9.70
22	8.60	8.89	8.18	20.90	32.34	36.48	36.22	32.04	31.18	9.24	8.94	10.20
23	8.19	8.98	8.33	21.32	32.16	36.48	36.04	31.93	30.75	9.43	9.41	9.88
24	8.48	9.10	8.36	21.67	31.98	36.36	35.83	31.84	30.32	9.62	9.55	9.19
25	8.40	9.32	8.68	21.93	31.76	36.18	35.59	31.74	29.88	8.71	8.99	8.45
26	8.78	8.78	9.08	22.15	31.55	36.02	35.33	31.63	29.43	8.70	8.87	8.37
27	9.20	8.80	8.47	22.33	31.35	35.84	35.09	31.56	28.97	9.07	9.31	8.24
28	8.48	8.91	8.71	22.42	31.10	35.64	34.88	31.55	28.49	9.46	9.03	8.37
29	8.48	8.49	8.74	22.52	---	35.48	34.64	31.56	27.99	9.72	9.30	8.37
30	8.52	8.82	9.25	22.58	---	35.53	34.39	31.63	27.51	10.12	10.07	9.09
31	8.48	---	11.61	22.65	---	35.56	---	31.78	---	9.85	9.67	---
MAX	9.80	10.46	11.61	22.65	32.73	36.48	36.89	34.12	34.20	---	10.28	---
MIN	7.62	8.49	8.18	9.44	22.77	29.30	34.39	31.55	27.51	---	8.55	---

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA

LOCATION.--Lat 32°59'25", long 91°39'20", in SE 1/4 SW 1/4 sec.9, T.23 N., R.8 E., Morehouse Parish, Hydrologic Unit 08040205, on downstream side of right pier of bridge on State Highway 834, 1.0 mi downstream from Arkansas-Louisiana State line, and 1.6 mi northwest of Jones.

DRAINAGE AREA.--1.187 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 79.21 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Water-stage recorder for Bayou Bartholomew northwest of Jones (station 07364203) used as auxiliary gage for this station since Oct. 1, 1959. See WSP 2120 for history of changes prior to Dec. 7, 1966.

REMARKS.--No estimated discharges. Records good. Small diversions above station for irrigation. In extreme floods, considerable flow bypasses station. Most of flow is into the Bayou Lafourche-Boeuf River basins by way of Interconnecting system of bayous and drainage ditches and passes stations Bayou Lafourche near Crew Lake (station 07369000) and Boeuf River near Girard (station 07368000). Other flow bypasses station and reenters the basin 5 mi downstream by way of Overflow Creek. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--33 years, 1.336 ft³/s, 967.900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6.990 ft³/s, July 18, 1989; maximum gage height, 28.45 ft, Jan. 5, 1983; minimum discharge, 1.6 ft³/s, Aug. 22, 1986, gage height, -0.45 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.910 ft³/s, Feb. 22, gage height, 27.07 ft; maximum gage height, 27.16 ft, Feb. 25; minimum discharge, 47 ft³/s, July 20; minimum gage height, 1.25 ft, Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	97	588	540	3020	6550	6210	3150	1680	509	66	64
2	241	95	523	640	3200	6540	6140	3000	1670	406	77	63
3	224	94	453	711	3400	6370	6070	2820	1750	314	84	62
4	206	93	385	712	3710	6230	5980	2670	1900	253	94	64
5	188	91	323	695	4020	6070	5860	2560	1910	208	110	66
6	172	86	271	764	4380	5910	5790	2440	1910	173	122	67
7	162	86	232	852	4770	5730	5710	2310	1970	154	124	67
8	152	104	201	994	5210	5670	5590	2200	2040	139	125	68
9	143	164	177	1140	5600	5620	5500	2100	2110	126	125	75
10	136	208	162	1260	5990	5530	5460	2010	2160	113	128	81
11	131	222	152	1330	6140	5530	5440	1920	2200	101	125	81
12	126	208	143	1390	6270	5590	5400	1880	2210	93	110	81
13	122	184	136	1430	6410	5670	5350	1900	2210	101	101	83
14	119	164	131	1440	6500	5730	5340	1890	2210	103	102	85
15	117	153	128	1460	6590	6010	5290	1900	2180	95	97	85
16	118	152	128	1470	6690	6080	5250	1890	2140	84	91	85
17	121	167	137	1480	6780	6120	5250	1990	2090	64	85	85
18	120	214	154	1530	6810	6210	5190	2020	2030	59	73	86
19	121	291	173	1610	6790	6390	5110	1970	1960	56	66	87
20	121	378	190	1750	6790	6490	5020	1950	1880	49	62	87
21	122	458	202	1910	6790	6560	4910	1970	1800	49	68	92
22	121	559	208	2050	6840	6590	4790	1990	1720	52	75	96
23	119	643	210	2230	6810	6590	4660	1950	1620	69	86	95
24	117	687	210	2440	6760	6650	4510	1900	1500	91	90	93
25	114	721	211	2640	6750	6650	4320	1850	1380	90	89	93
26	110	741	210	2760	6710	6600	4130	1810	1260	80	84	98
27	106	742	207	2830	6660	6530	3940	1780	1120	71	76	107
28	103	724	204	2890	6610	6470	3740	1750	964	65	70	116
29	100	690	204	2960	---	6380	3530	1720	797	63	67	123
30	99	644	241	2980	---	6350	3330	1690	638	58	66	126
31	99	---	447	3000	---	6260	---	1690	---	58	63	---
TOTAL	4304	9860	7341	51888	163000	191670	152810	64670	53009	3946	2801	2561
MEAN	139	329	237	1674	5821	6183	5094	2086	1767	127	90.4	85.4
MAX	254	742	588	3000	6840	6650	6210	3150	2210	509	128	126
MIN	99	86	128	540	3020	5530	3330	1690	638	49	62	62
AC-FT	8540	19560	14560	102900	323300	380200	303100	128300	105100	7830	5560	5080
CAL YR 1989	TOTAL 945668		MEAN 2591		MAX 6830		MIN 86		AC-FT 1876000			
WTR YR 1990	TOTAL 707860		MEAN 1939		MAX 6840		MIN 49		AC-FT 1404000			

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.59	1.61	6.59	6.24	18.73	27.00	26.73	19.52	13.14	6.22	1.60	1.32
2	3.46	1.58	6.13	6.90	19.38	27.03	26.72	19.01	13.04	5.39	1.81	1.29
3	3.28	1.56	5.60	7.35	19.94	26.92	26.64	18.46	13.66	4.63	1.93	1.26
4	3.09	1.54	5.05	7.46	20.79	26.77	26.51	17.92	14.59	4.09	2.10	1.28
5	2.89	1.50	4.51	7.39	21.83	26.59	26.34	17.37	14.66	3.64	2.36	1.32
6	2.70	1.43	4.03	7.92	22.73	26.38	26.19	16.80	14.84	3.26	2.55	1.33
7	2.55	1.43	3.63	8.50	23.38	26.13	26.00	16.21	15.06	2.99	2.57	1.33
8	2.40	1.76	3.29	9.46	24.09	26.14	25.81	15.66	15.23	2.76	2.59	1.33
9	2.27	2.74	3.01	10.28	24.74	26.19	25.64	15.17	15.34	2.58	2.58	1.47
10	2.17	3.30	2.80	10.91	25.39	26.13	25.53	14.72	15.41	2.36	2.63	1.58
11	2.08	3.45	2.64	11.30	25.63	26.17	25.45	14.31	15.42	2.16	2.57	1.57
12	2.01	3.31	2.51	11.56	25.88	26.20	25.33	14.24	15.39	2.02	2.32	1.56
13	1.95	3.04	2.40	11.74	26.11	26.19	25.19	14.68	15.32	2.16	2.16	1.59
14	1.91	2.77	2.31	11.78	26.29	26.16	25.12	14.42	15.24	2.19	2.17	1.62
15	1.88	2.61	2.26	11.78	26.43	26.53	25.04	14.29	15.11	2.06	2.07	1.62
16	1.90	2.61	2.27	11.73	26.55	26.59	24.91	14.21	14.93	1.87	1.97	1.61
17	1.94	2.83	2.41	11.70	26.65	26.67	24.77	15.22	14.72	1.66	1.85	1.61
18	1.94	3.40	2.68	12.16	26.72	26.78	24.62	15.39	14.48	1.56	1.61	1.62
19	1.96	4.19	2.96	12.80	26.80	26.88	24.44	15.39	14.19	1.49	1.45	1.62
20	1.97	4.97	3.17	13.78	26.87	26.95	24.23	15.42	13.85	1.34	1.37	1.62
21	1.98	5.63	3.31	14.66	26.93	26.98	23.99	15.50	13.44	1.33	1.47	1.71
22	1.97	6.36	3.38	15.48	27.06	26.99	23.71	15.54	12.99	1.38	1.61	1.80
23	1.95	6.92	3.40	16.34	27.10	26.99	23.39	15.26	12.51	1.72	1.81	1.77
24	1.91	7.19	3.40	17.20	27.13	26.98	23.00	14.94	11.96	2.14	1.90	1.74
25	1.86	7.39	3.41	17.86	27.15	26.92	22.55	14.60	11.35	2.11	1.86	1.74
26	1.80	7.50	3.39	18.15	27.14	26.86	22.08	14.28	10.67	1.92	1.75	1.83
27	1.74	7.52	3.36	18.31	27.11	26.78	21.59	14.00	9.89	1.74	1.58	1.99
28	1.69	7.44	3.33	18.42	27.07	26.69	21.13	13.74	9.03	1.62	1.47	2.15
29	1.65	7.26	3.33	18.69	---	26.67	20.61	13.50	8.06	1.55	1.40	2.26
30	1.63	6.98	3.71	18.71	---	26.80	20.06	13.30	7.13	1.44	1.36	2.32
31	1.63	---	5.65	18.70	---	26.75	---	13.20	---	1.43	1.31	---
MAX	3.59	7.52	6.59	18.71	27.15	27.03	26.73	19.52	15.42	6.22	2.63	2.32
MIN	1.63	1.43	2.26	6.24	18.73	26.13	20.06	13.20	7.13	1.33	1.31	1.26

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, Hydrologic Unit 08040206, attached to pier of catwalk to drop inlet structure, 50 ft upstream from dam on Bayou D'Arbonne, and 2.0 mi northeast of Aycock.

DRAINAGE AREA.--133 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 176.00 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam, containing an uncontrolled concrete drop inlet spillway near the left end of dam. Outflow below spillway elevation is controlled by two 8- by 8-ft sluice gates in upstream face of drop inlet. Invert of sluice gates at -24.75 ft, gage datum, capacity, 100,000 acre-ft to 9.0 ft, gage datum. Dam completed and storage began in 1966. Reservoir is used for flood control and conservation. Gates were closed until Sept. 6 and remained open the rest of the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.03 ft, May 5, 1979; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.62 ft, Feb. 3; minimum, 5.19 ft, Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.67	8.59	8.93	9.28	10.03	9.82	10.80	9.56	10.49	9.37	---	8.74
2	8.67	8.59	8.93	9.29	10.43	9.85	10.62	9.52	10.47	9.34	---	8.72
3	8.66	8.58	8.92	9.33	11.12	9.84	10.45	9.50	10.50	9.31	---	8.71
4	8.65	8.57	8.91	9.47	11.53	9.81	10.30	9.56	10.75	9.27	---	8.70
5	8.64	8.56	8.90	9.57	11.19	9.77	10.18	9.53	10.60	9.25	---	8.68
6	8.63	8.61	8.90	9.66	10.87	9.74	10.23	9.50	10.43	9.24	---	8.59
7	8.67	8.63	8.91	9.67	10.61	9.75	10.25	9.47	10.26	9.22	---	8.05
8	8.68	8.66	8.92	9.66	10.42	10.02	10.19	9.45	10.12	9.20	---	7.59
9	8.67	8.66	8.91	9.64	10.35	10.33	10.10	9.45	10.00	9.18	---	7.18
10	8.66	8.65	8.90	9.61	10.70	10.35	10.11	9.43	9.91	9.16	---	6.78
11	8.66	8.64	8.91	9.58	10.64	10.26	10.08	9.39	9.82	9.14	---	6.38
12	8.65	8.64	8.90	9.56	10.48	10.18	10.00	9.58	9.74	9.13	---	5.96
13	8.64	8.63	8.90	9.52	10.33	10.09	9.93	9.87	9.68	9.13	---	5.57
14	8.63	8.64	8.89	9.50	10.20	10.03	10.00	9.90	9.63	9.08	---	5.49
15	8.62	8.67	8.89	9.48	10.18	10.18	10.04	9.86	9.58	9.06	---	5.48
16	8.67	8.64	8.87	9.47	10.19	10.18	10.01	9.80	9.53	9.03	---	5.46
17	8.72	8.60	8.86	9.53	10.08	10.12	9.95	9.88	9.49	9.02	---	5.43
18	8.70	8.59	8.87	9.93	10.00	10.03	9.87	9.84	9.45	9.02	---	5.44
19	8.69	8.59	8.89	10.15	9.94	9.96	9.82	9.79	9.42	9.01	---	5.45
20	8.65	8.59	8.89	10.27	9.88	9.88	9.78	9.77	9.39	9.00	---	5.43
21	8.63	8.57	8.89	10.23	9.85	9.83	9.75	9.79	9.36	9.00	---	5.42
22	8.62	8.81	8.89	10.13	10.07	9.78	9.72	9.80	9.34	9.00	8.92	5.40
23	8.62	8.92	8.88	10.05	10.08	9.74	9.68	9.75	9.31	8.99	8.90	5.37
24	8.62	8.92	8.87	10.03	10.01	9.70	9.64	9.70	9.28	8.99	8.89	5.32
25	8.61	8.93	8.87	10.01	9.94	9.67	9.62	9.66	9.32	9.01	8.88	5.30
26	8.60	8.94	8.87	9.92	9.89	9.64	9.61	9.62	9.49	9.05	8.87	5.28
27	8.60	8.95	8.88	9.86	9.85	9.62	9.62	9.61	9.47	---	8.85	5.26
28	8.59	8.96	8.88	9.87	9.81	9.64	9.64	9.61	9.43	---	8.83	5.24
29	8.59	8.94	8.89	10.09	---	9.90	9.61	9.58	9.41	---	8.82	5.22
30	8.60	8.93	9.01	10.13	---	10.84	9.59	9.54	9.38	---	8.81	5.20
31	8.61	---	9.23	10.07	---	10.99	---	9.93	---	---	8.78	---
MAX	8.72	8.96	9.23	10.27	11.53	10.99	10.80	9.93	10.75	---	---	8.74
MIN	8.59	8.56	8.86	9.28	9.81	9.62	9.59	9.39	9.28	---	---	5.20

07366200 LITTLE CORNEY RAYON NEAR LILLIE, LA

LOCATION.--Lat 32°55'45", long 92°37'58", in NW 1/4 sec.1, T.22 N., R.3 W., Union Parish, Hydrologic Unit 08040206, left bank on downstream side of bridge on State Highway 15, 1.4 mi east of Lillie, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--208 mi².

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

REVISED RECORDS.--WDR LA-79-1: 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 91.48 ft above National Geodetic Vertical Datum of 1929. October 1955 to Jan. 26, 1956, nonrecording gage, Jan. 27, 1956, to May 31, 1978, water-stage recorder, at site 500 ft downstream at same datum.

REMARKS.--Estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--35 years, 198 ft³/s, 12.93 in/yr, 143,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft³/s, June 9, 1974, gage height, 17.54 ft, from floodmark; no flow Aug. 18-20, Sept. 21 to Oct. 1, Oct. 3-5, 1956, and Aug. 11-14, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 21	0300	1,540	7.68	Apr. 9	0100	1,220	7.41
Feb. 5	0300	5,090	9.90	May 15	0100	1,790	7.86
Feb. 10	1600	1,940	7.96	May 18	1600	5,660	10.18
Mar. 10	0200	*6,420	*10.53	June 5	1100	4,030	9.33
Mar. 31	2200	4,420	9.55				

Minimum discharge, 2.2 ft³/s, Sept. 2, 4; minimum gage height, 2.09 ft, Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	30	37	361	714	188	3270	138	525	19	42	2.8
2	23	33	37	410	1580	233	1590	90	770	16	53	2.5
3	22	29	37	379	2420	308	1170	75	1110	13	102	3.3
4	20	26	34	378	4470	301	752	91	1720	12	287	2.4
5	15	23	32	466	4430	267	524	110	3300	11	253	3.4
6	13	36	32	546	2070	215	596	98	1770	10	147	3.1
7	12	93	34	579	972	195	710	75	800	9.3	50	2.6
8	12	99	43	518	657	912	869	60	492	8.9	28	2.5
9	14	104	44	403	553	3630	1060	56	281	9.2	20	4.6
10	16	126	46	268	1500	5210	710	56	109	9.1	15	40
11	16	101	46	165	1080	2080	583	52	68	8.3	12	53
12	14	65	42	112	927	950	479	106	56	12	11	43
13	13	49	39	89	823	637	429	557	49	14	10	36
14	12	42	37	75	646	501	456	1090	43	13	11	31
15	17	11	17	69	717	538	498	1520	39	13	14	27
16	14	41	35	69	622	561	469	847	38	13	12	25
17	32	40	33	84	539	671	444	673	35	12	10	19
18	37	37	33	318	371	661	438	3800	32	13	9.0	15
19	33	35	38	670	283	536	358	2910	29	14	8.3	11
20	28	35	44	1150	220	401	211	1120	27	14	6.7	9.6
21	23	33	e44	1460	174	255	137	724	23	14	5.8	17
22	22	50	e45	1160	393	162	113	688	21	14	7.3	34
23	20	118	e44	778	637	130	103	977	21	14	6.5	26
24	20	141	e42	579	660	117	94	1020	26	25	5.6	19
25	19	116	37	449	766	108	85	668	22	31	5.8	14
26	19	80	35	326	618	109	89	449	37	27	6.0	11
27	19	64	45	234	439	148	105	269	36	21	6.5	9.0
28	17	55	52	171	275	182	201	234	38	16	7.6	8.3
29	16	47	58	328	---	336	258	291	30	11	5.7	7.8
30	16	42	82	536	---	1410	222	251	24	7.8	4.3	7.4
31	21	---	231	606	---	3370	---	258	---	15	3.9	---
TOTAL	590	1831	1473	13736	29352	25322	17023	19353	11571	439.6	1166.0	490.3
MEAN	17.0	51.0	47.5	443	1818	817	517	594	306	14.1	37.6	16.1
MAX	37	141	231	1460	4470	5210	3270	3800	3300	31	287	53
MIN	12	23	32	69	174	108	85	52	21	7.8	3.9	2.4
AC-FT	1170	3630	2920	27250	58220	50230	33770	38390	22950	872	2310	973
CFSM	.09	.29	.23	2.13	5.04	3.93	2.73	3.00	1.85	.07	.18	.08
IN.	.11	.33	.26	2.46	5.25	4.53	3.04	3.46	2.07	.08	.21	.09

CAL YR 1989	TOTAL 131556.9	MEAN 360	MAX 4720	MIN 9.1	AC-FT 260900	CFSM 1.73	IN. 23.53
WTR YR 1990	TOTAL 122346.9	MEAN 335	MAX 5210	MIN 2.4	AC-FT 242700	CFSM 1.61	IN. 21.88

e Estimated.

07366200 LITTLE CORNEY BAYOU NEAR LILLIE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.96	3.30	3.53	5.87	6.75	5.16	8.86	4.67	6.32	2.94	3.62	2.24
2	3.04	3.39	3.53	6.03	7.67	5.38	7.71	4.22	6.78	2.85	3.86	2.20
3	3.01	3.28	3.54	5.94	8.30	5.69	7.35	4.01	7.30	2.74	4.48	2.29
4	2.95	3.18	3.45	5.93	9.58	5.67	6.82	4.22	7.81	2.68	5.61	2.16
5	2.81	3.11	3.41	6.19	9.54	5.53	6.32	4.45	8.87	2.67	5.49	2.26
6	2.71	3.44	3.41	6.39	8.06	5.30	6.50	4.31	7.83	2.61	4.96	2.21
7	2.66	4.43	3.45	6.47	7.13	5.18	6.75	4.01	6.89	2.59	3.85	2.14
8	2.66	4.51	3.66	6.32	6.64	6.77	6.97	3.78	6.25	2.58	3.34	2.10
9	2.76	4.55	3.68	6.01	6.41	9.05	7.24	3.70	5.57	2.59	3.11	2.25
10	2.83	4.75	3.73	5.53	7.60	9.93	6.74	3.71	4.56	2.59	2.92	3.52
11	2.82	4.52	3.74	5.02	7.25	8.06	6.48	3.64	4.07	2.55	2.81	3.81
12	2.77	4.05	3.66	4.62	7.09	7.10	6.19	4.17	3.86	2.72	2.74	3.60
13	2.72	3.77	3.57	4.37	6.95	6.59	6.05	6.37	3.72	2.82	2.71	3.41
14	2.69	3.62	3.52	4.19	6.61	6.26	6.13	7.20	3.58	2.74	2.75	3.29
15	2.68	3.60	3.49	4.10	6.31	6.36	6.25	7.65	3.49	2.76	2.87	3.18
16	2.76	3.60	3.47	4.09	6.56	6.42	6.17	6.96	3.45	2.75	2.80	3.11
17	3.32	3.59	3.43	4.29	6.37	6.67	6.09	6.67	3.40	2.73	2.72	2.91
18	3.46	3.51	3.42	5.69	5.91	6.65	6.07	9.01	3.31	2.78	2.66	2.77
19	3.36	3.46	3.55	6.65	5.60	6.35	5.80	8.62	3.22	2.82	2.63	2.62
20	3.23	3.45	3.69	7.32	5.32	5.95	5.14	7.28	3.16	2.82	2.55	2.55
21	3.08	3.42	---	7.61	5.08	5.36	4.67	6.77	3.05	2.80	2.50	2.83
22	3.03	3.77	---	7.35	5.95	4.85	4.47	6.70	2.98	2.78	2.58	3.36
23	2.99	4.68	---	6.86	6.60	4.62	4.37	7.13	2.99	2.80	2.54	3.13
24	2.97	4.87	---	6.47	6.64	4.51	4.27	7.19	3.15	3.16	2.48	2.91
25	2.96	4.67	3.48	6.14	6.85	4.43	4.16	6.65	3.00	3.34	2.50	2.73
26	2.97	4.28	3.38	5.75	6.55	4.43	4.20	6.10	3.44	3.23	2.51	2.61
27	2.95	4.05	3.63	5.39	6.11	4.75	4.39	5.42	3.42	3.05	2.53	2.53
28	2.90	3.91	3.79	5.06	5.55	4.98	5.08	5.27	3.47	2.87	2.60	2.49
29	2.86	3.76	3.91	5.74	---	5.68	5.39	5.54	3.25	2.68	2.49	2.47
30	2.86	3.63	4.25	6.37	---	7.48	5.21	5.36	3.07	2.52	2.39	2.45
31	3.02	---	5.36	6.53	---	8.91	---	5.37	---	2.80	2.36	---
MAX	3.46	4.87	---	7.61	9.58	9.93	8.86	9.01	8.87	3.34	5.61	3.81
MIN	2.66	3.11	---	4.09	5.08	4.43	4.16	3.64	2.98	2.52	2.36	2.10

07366300 BAYOU D'ARBONNE LAKE AT FARMERVILLE, LA

LOCATION.--Lat 32°45'25", long 92°24'50", in NW 1/4 NW 1/4 sec.6, T.20 N., R.1 E., Union Parish, Hydrologic Unit 08040206, near right bank on downstream side of bridge on State Highway 33, 0.6 mi southwest of Farmerville, and 5.0 mi upstream from dam on Bayou D'Arbonne.

DRAINAGE AREA.--1,607 mi² at dam, 1,470 mi² at site.

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

REVISED RECORDS.--WDR LA-71: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 40.40 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by an earthfill dam containing a 799-ft uncontrolled concrete spillway at left end. Capacity, 130,000 acre-ft at spillway crest, 39.60 ft, gage datum. There is no dead storage. Outflow below spillway crest controlled by four 5- by 5-ft sluice gates at outlet. Invert elevation of sluice gates at 17.6 ft gage datum. Dam complete and storage began in 1964. Reservoir is used for flood control, conservation, and recreation. Gates were closed during the water year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 45.43 ft, June 11, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1925, 45.71 ft, Apr. 30, 1958, (from Corps of Engineers records).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 43.47 ft, Feb. 6; minimum, 39.36 ft, Sept. 8.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.56	39.49	40.00	40.64	41.35	41.09	42.23	40.49	41.14	40.02	39.67	39.49
2	39.56	39.48	39.99	40.65	41.71	41.07	42.91	40.44	41.44	39.99	39.67	39.47
3	39.56	39.47	39.96	40.62	42.00	41.04	43.02	40.40	41.61	39.97	39.68	39.46
4	39.55	39.47	39.95	40.62	42.40	40.98	42.74	40.40	41.89	39.96	39.69	39.45
5	39.55	39.47	39.94	40.65	43.09	40.93	42.36	40.37	42.11	39.95	39.70	39.43
6	39.55	39.50	39.94	40.77	43.43	40.87	42.06	40.36	42.33	39.93	39.72	39.41
7	39.54	39.51	39.96	40.86	43.19	40.85	41.85	40.33	42.38	39.91	39.73	39.39
8	39.54	39.55	39.96	40.91	42.76	40.97	41.69	40.30	42.27	39.88	39.72	39.38
9	39.53	39.58	39.95	40.90	42.63	41.26	41.59	40.28	42.01	39.86	39.70	39.51
10	39.52	39.59	39.95	40.82	42.52	41.59	41.60	40.24	41.68	39.85	39.69	39.64
11	39.51	39.60	39.95	40.74	42.44	42.35	41.62	40.20	41.39	39.83	39.68	39.78
12	39.51	39.61	39.94	40.64	42.20	43.00	41.58	40.32	41.11	39.81	39.67	39.93
13	39.50	39.62	39.93	40.54	41.97	42.89	41.47	40.60	40.88	39.79	39.67	40.07
14	39.50	39.64	39.92	40.47	41.77	42.52	41.39	40.83	40.70	39.76	39.73	40.17
15	39.49	39.65	39.92	40.42	41.34	42.26	41.33	40.97	40.56	39.74	39.72	40.24
16	39.52	39.61	39.90	40.37	41.07	---	41.27	41.06	40.45	39.72	39.72	40.24
17	39.55	39.59	39.90	40.38	---	---	41.19	41.26	40.36	39.71	39.71	40.16
18	39.53	39.59	39.91	40.70	---	---	41.11	41.33	40.30	39.71	39.70	40.11
19	39.52	39.59	39.94	41.07	---	---	41.04	41.38	40.24	39.70	39.68	40.06
20	39.50	39.59	39.94	41.70	---	---	40.98	41.51	40.19	39.70	39.67	40.03
21	39.49	39.60	39.93	42.17	41.10	---	40.91	41.69	40.15	39.69	39.66	40.01
22	39.48	39.82	39.91	42.30	41.14	---	40.81	41.85	40.11	39.68	39.65	39.99
23	39.48	40.01	39.90	42.09	41.13	40.98	40.73	41.78	40.08	39.70	39.63	39.95
24	39.49	40.08	39.91	41.95	41.16	40.87	40.65	41.61	40.05	39.73	39.62	39.91
25	39.49	40.11	39.91	41.81	41.19	40.76	40.58	41.45	40.04	39.72	39.61	39.89
26	39.49	40.11	39.91	41.64	41.22	40.67	40.53	41.31	40.05	39.72	39.60	39.88
27	39.48	40.11	39.92	41.50	41.21	40.61	40.53	41.16	40.06	39.71	39.59	39.86
28	39.48	40.08	39.93	41.39	41.16	40.59	40.56	41.01	40.06	39.70	39.58	39.86
29	39.48	40.03	39.98	41.38	---	40.76	40.55	40.88	40.05	39.68	39.56	39.85
30	39.49	40.02	40.28	41.37	---	41.32	40.53	40.78	40.04	39.67	39.54	39.84
31	39.49	---	40.55	41.34	---	41.79	---	40.80	---	39.68	39.51	---
MAX	39.56	40.11	40.55	42.30	---	---	43.02	41.85	42.38	40.02	39.73	40.24
MIN	39.48	39.47	39.90	40.37	---	---	40.53	40.20	40.04	39.67	39.51	39.38

07366472 CHAUVIN BAYOU NEAR MONROE, LA

LOCATION.--Lat 32°33'34", long 92°04'31", in NE 1/4 NE 1/4 sec.43, T.18 N., R.4 E., Ouachita Parish, Hydrologic Unit 08040207, on downstream end of culvert on U.S. Highway 165, 2.5 mi north of Sherrouse School at Monroe, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--November 1977 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 31.17 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Gage heights for the period Dec. 22-25 are to top of ice.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 40.41 ft, Jan. 2, 1983; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 39.14 ft, Apr. 3; minimum, 30.29 ft, Aug. 17.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.81	30.48	30.45	30.98	32.32	36.97	39.05	37.86	38.71	36.63	30.94	30.47
2	30.80	30.36	30.50	30.84	33.78	37.09	39.11	37.80	38.63	36.34	31.07	30.46
3	30.78	30.42	30.51	30.78	33.95	37.12	39.13	37.74	38.63	36.01	30.93	30.46
4	30.73	30.39	30.47	31.03	34.23	37.13	39.13	37.70	38.72	35.64	30.89	30.54
5	30.69	30.45	30.52	30.97	34.36	37.14	39.11	37.63	38.68	35.20	30.84	30.83
6	30.66	30.67	30.57	31.11	34.64	37.14	39.09	37.57	38.61	34.61	30.82	30.72
7	30.64	30.61	30.68	31.18	35.01	37.13	39.05	37.50	38.53	33.72	30.83	30.68
8	30.57	30.62	30.67	31.15	35.28	37.18	39.00	37.44	38.47	32.50	30.78	30.64
9	30.55	30.59	30.64	31.05	35.57	37.25	38.94	37.38	38.40	31.45	30.69	30.70
10	30.52	30.52	30.58	30.95	36.11	37.30	38.92	37.31	38.35	31.09	30.62	30.88
11	30.45	30.48	30.57	30.89	36.38	37.33	38.90	37.25	38.33	30.95	30.59	30.78
12	30.44	30.51	30.56	30.81	36.53	37.35	38.84	37.54	38.25	30.86	30.58	30.70
13	30.50	30.53	30.55	30.77	36.65	37.37	38.78	37.93	38.19	30.93	30.57	30.70
14	30.48	30.56	30.53	30.76	36.75	37.39	38.76	37.97	38.16	31.02	30.61	30.68
15	30.47	30.57	30.52	30.73	36.84	37.82	38.72	37.96	38.09	30.92	30.55	30.62
16	30.67	30.56	30.54	30.72	36.89	38.00	38.67	37.92	38.02	30.85	30.38	30.58
17	30.60	30.54	30.56	30.87	36.92	38.07	38.61	38.37	37.95	30.80	30.46	30.56
18	30.57	30.56	30.57	33.07	36.93	38.11	38.55	38.49	37.89	30.78	30.61	30.54
19	30.56	30.50	30.60	32.96	36.94	38.13	38.48	38.49	37.82	30.79	30.56	30.53
20	30.49	30.49	30.57	34.23	36.93	38.12	38.41	38.52	37.76	30.94	30.54	30.54
21	30.48	30.49	30.54	33.33	36.94	38.10	38.37	38.71	37.70	30.93	30.52	30.64
22	30.49	30.79	30.51	32.39	37.05	38.07	38.32	38.83	37.66	30.82	30.51	30.78
23	30.48	30.74	30.49	32.07	37.05	38.03	38.26	38.81	37.59	30.73	30.51	30.69
24	30.47	30.57	30.49	32.31	37.04	37.99	38.20	38.78	37.52	30.89	30.52	30.63
25	30.48	30.57	30.51	32.34	37.02	37.95	38.13	38.72	37.45	30.87	30.51	30.54
26	30.48	30.56	30.53	31.99	37.00	37.91	38.07	38.66	37.39	30.75	30.51	30.54
27	30.47	30.55	30.53	31.65	36.98	37.87	38.03	38.60	37.32	30.66	30.51	30.49
28	30.46	30.55	30.53	31.64	36.96	37.85	38.05	38.56	37.20	30.74	30.51	30.48
29	30.47	30.53	30.68	32.55	---	38.05	37.99	38.50	37.10	30.92	30.51	30.45
30	30.47	30.47	31.19	32.33	---	38.77	37.92	38.43	36.88	30.94	30.51	30.44
31	30.68	---	31.18	32.22	---	38.97	---	38.57	---	30.90	30.49	---
MAX	30.81	30.79	31.19	34.23	37.05	38.97	39.13	38.83	38.72	36.63	31.07	30.88
MIN	30.44	30.36	30.45	30.72	32.32	36.97	37.92	37.25	36.88	30.66	30.38	30.44

07367630 OUACHITA RIVER AT COLUMBIA LOCK AND DAM, NEAR RIVERTON, LA

LOCATION.--Lat 32°10'00", long 92°06'45", on line between NE 1/4 and SE 1/4 sec.25, T.14 N., R.4 E., Caldwell Parish, Hydrologic Unit 08040207, near left bank on upstream end of lock wall of Columbia Lock and Dam on the Ouachita River, 1.0 mi northwest of Riverton, and 4.0 mi northwest of Columbia.

DRAINAGE AREA.--15,630 mi².

PERIOD OF RECORD.--October 1975 to September 1987. October 1987 to current year (elevations only). Gage-height records, April 1972 to December 1975, in reports of Corps of Engineers, Vicksburg District.

REVISED.--WDR LA-81-1: 1981(M).

GAGE.--Water-stage recorder, a broad-crested weir and four radial gates. Datum of gage is National Geodetic Vertical Datum of 1919. Prior to October 2, 1987, datum of gage was 23.88 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to October 1981 water-stage recorder for Ouachita River at Columbia (station 07367640) used as auxiliary gage for this station.

REMARKS.--Considerable regulation by five reservoirs in Arkansas and two reservoirs in Louisiana, combined capacity, 3,337,880 acre-ft, and a series of navigation locks and dams.

AVERAGE DISCHARGE.--12 years, 17,600 ft³/s, 12,780,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,700 ft³/s, Jan. 10, 1983, tailwater elevation, 44.82 ft, minimum daily, 452 ft³/s Oct. 24, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 64.72 ft, Apr. 7; minimum elevation, 51.54 ft, July 8.

DISCHARGE MEASUREMENTS MADE DURING YEAR

Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)
Nov. 8, 1989.....	3,280	Nov. 20, 1989.....	4,100

ELEVATION, (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.12	52.20	52.20	52.24	53.96	60.26	63.80	61.88	60.59	56.76	52.25	52.23
2	52.20	52.20	52.14	52.11	54.02	60.28	63.94	61.57	60.69	56.15	52.36	52.24
3	52.16	52.21	52.20	52.02	54.24	60.15	64.12	61.30	60.82	55.48	52.22	52.23
4	52.28	52.22	52.10	52.03	54.75	60.00	64.34	61.00	61.03	54.80	52.25	52.14
5	52.17	52.19	52.22	52.02	55.16	59.83	64.52	60.66	61.27	54.06	52.26	52.17
6	52.21	52.13	52.18	51.81	55.58	59.65	64.62	60.37	61.53	53.31	52.23	52.16
7	52.22	52.14	52.23	51.81	56.09	59.40	64.67	60.06	61.79	52.49	52.16	52.21
8	52.24	52.12	52.20	51.81	56.70	59.08	64.64	59.74	62.04	51.95	52.02	52.23
9	52.19	52.21	52.11	51.81	57.39	58.83	64.62	59.42	62.24	51.98	52.12	52.22
10	52.18	52.22	52.20	51.79	58.27	58.67	64.59	59.09	62.39	52.07	52.25	52.24
11	52.10	52.21	52.19	51.79	58.80	58.63	64.56	58.84	62.49	52.01	52.25	52.19
12	52.31	52.19	52.23	51.79	59.31	58.78	64.51	58.80	62.55	52.06	52.26	52.19
13	52.20	52.16	52.24	51.82	59.75	59.08	64.49	59.12	62.57	52.00	52.23	52.29
14	52.17	52.09	52.15	51.82	60.16	59.43	64.47	59.24	62.54	52.00	52.29	52.24
15	52.22	52.19	52.22	51.82	60.50	60.09	64.47	59.38	62.46	52.03	52.16	52.23
16	52.26	52.24	52.14	51.77	60.71	60.52	64.43	59.46	62.35	51.99	52.12	52.24
17	52.15	52.20	52.11	51.86	60.91	60.82	64.36	59.53	62.19	52.05	52.27	52.30
18	52.12	52.23	52.21	51.79	61.03	61.16	64.30	59.71	62.02	52.18	52.26	52.19
19	52.09	52.20	52.19	51.77	61.08	61.48	64.22	59.88	61.81	52.26	52.23	52.22
20	52.32	52.27	52.21	51.75	61.06	61.82	64.11	60.08	61.58	52.32	52.27	52.28
21	52.18	52.11	52.13	51.76	61.02	62.12	63.98	60.29	61.31	52.29	52.22	52.25
22	52.19	52.15	52.12	51.83	61.14	62.39	63.83	60.52	61.00	52.34	52.25	52.24
23	52.31	52.20	52.24	51.83	61.07	62.60	63.65	60.74	60.64	52.35	52.25	52.27
24	52.10	52.16	52.26	51.83	61.05	62.75	63.47	60.89	60.27	52.28	52.28	52.23
25	52.03	52.23	52.29	51.96	60.91	62.87	63.26	60.94	59.87	52.24	52.23	52.20
26	52.11	52.13	52.29	52.44	60.75	61.31	63.05	60.86	59.42	52.30	52.29	52.22
27	52.20	52.14	52.17	52.86	60.61	63.02	62.84	60.76	58.96	52.35	52.24	52.15
28	52.15	52.16	52.24	53.20	60.44	63.04	62.65	60.69	58.48	52.28	52.21	52.18
29	52.10	52.12	52.24	53.92	---	63.08	62.42	60.55	57.94	52.30	52.27	52.14
30	52.20	52.15	52.24	54.06	---	63.39	62.17	60.38	57.36	52.34	52.29	52.26
31	52.13	---	52.23	54.03	---	63.60	---	60.34	---	52.21	52.23	---
MAX	52.32	52.27	52.29	54.06	61.14	63.60	64.67	61.88	62.57	56.76	52.36	52.30
MIN	52.03	52.09	52.10	51.75	53.96	58.63	62.17	58.80	57.36	51.95	52.02	52.14

07367640 OUACHITA RIVER AT COLUMBIA, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°06'28", long 92°04'27", NE 1/4 SE 1/4 sec.17, T.13 N., R.4 E., Caldwell Parish, Hydrologic Unit 08040207 on downstream side of bridge on U.S. Highway 165 at Columbia, 2.1 mi downstream from Bayou de Chene, and 4.2 mi downstream from Columbia Lock and Dam (station 07367630).

DRAINAGE AREA.--15,700 mi², approximately.

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: October 1975 to September 1981.

INSTRUMENTATION.--Water-quality monitor October 1975 to April 1981.

REMARKS.--Water-quality monitor removed April 1981. Samples for daily temperature and specific conductance were collected by an observer May to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 618 micromhos Oct. 3, 1977; minimum daily, 69 micromhos Mar. 4, 1975.

WATER TEMPERATURES: Maximum daily, 34.0 °C on several days in July and August 1981; minimum, 2.5 °C Jan. 15, 1979.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

A specific conductance of 59 microsiemens was observed Mar. 9, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	STREP- FORM, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 27...	0900	3405	229	7.42	20.0	30	5.8	7.8	0.9	48	44
DEC 07...	1315	2435	288	7.34	13.5	50	5.6	9.8	1.4	180	440
MAR 01...	1230	57600	65	6.47	13.0	60	18	6.8	1.2	220	92
APR 12...	1400	66200	63	6.69	17.5	60	13	6.3	1.3	K25	K75
JUN 21...	1400	58400	77	6.28	28.5	80	8.2	3.6	2.8	K24	160
AUG 30...	0945	4730	226	6.77	30.0	20	7.4	5.6	1.8	K14	K24

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 27...	42	12	2.8	30	3.0	32	25	37	0.1	7.5
DEC 07...	41	12	2.7	37	2.6	33	27	48	0.1	6.6
MAR 01...	13	3.6	1.0	6.0	1.7	8	6.5	8.0	0.2	5.4
APR 12...	16	4.6	1.1	5.3	1.5	18	5.9	6.7	0.2	3.8
JUN 21...	16	4.5	1.1	6.9	1.4	13	4.4	11	<0.1	4.4
AUG 30...	31	8.3	2.5	30	2.1	28	20	40	<0.1	6.6

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 27...	125	138	0.04	0.62	0.04	0.03	0.6	0.05	0.02	0.03
DEC 07...	157	154	0.01	0.30	0.12	0.11	0.5	0.07	0.05	0.01
MAR 01...	46	38	0.03	<0.10	0.04	0.04	0.5	0.06	0.02	0.01
APR 12...	42	37	<0.01	<0.10	0.04	0.03	0.5	0.04	0.03	0.02
JUN 21...	42	41	<0.01	<0.10	0.07	0.04	1.1	0.07	0.04	0.02
AUG 30...	126	124	0.02	0.30	0.03	0.04	0.5	0.04	0.03	0.01

DATE	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)
OCT 27...	40	<1	56	<0.5	<1	1	<3	1	310	<1
MAR 01...	130	<1	28	<0.5	<1	1	<3	2	240	1
APR 12...	100	<1	33	<0.5	<1	1	<3	2	480	<1
AUG 30...	50	<1	47	<0.5	<1	<1	<3	3	190	1

DATE	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)
OCT 27...	5	71	<0.1	20	1	<1	<1	160	<6	7
MAR 01...	<4	41	<0.1	<10	1	<1	<1	51	<6	8
APR 12...	<4	54	<0.1	<10	1	<1	<1	57	<6	5
AUG 30...	<4	75	--	<10	1	<1	<1	150	<6	<3

DATE	GROSS ALPHA, DIS- SOLVED (µG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (µG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (µG/L AS U)
OCT 27...	0.8	0.4	6.6	0.8	5.3	0.7	0.14	0.03

DATE	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 27...	11	101
DEC 07...	6	39
MAR 01...	38	5910
APR 12...	45	8040
JUN 21...	21	3310
AUG 30...	10	128

< Actual value is known to be less than the value shown.

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 32°58'25", long 91°26'25", in NE 1/4 NE 1/4 sec.21, T.23 N., R.10 E., Morehouse - West Carroll Parish line, Hydrologic Unit 08050001, near left bank on downstream side of bridge on State Highway 835, 2.0 mi downstream from Arkansas - Louisiana State line, and 7.5 mi southwest of Kilbourne.

DRAINAGE AREA.--785 mi² (see REMARKS).

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to September 1973 (annual maximum gage heights and daily discharges below 200 ft³/s only). October 1973 to September 1979 (daily gage heights and daily discharges below 200 ft³/s only). October 1979 to January 1986 (gage heights only). February 1986 to current year (daily gage heights and daily discharges below 3,800 ft³/s only).

GAGE.--Water-stage recorder. Datum of gage is 72.11 ft above National Geodetic Vertical Datum of 1929 (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. Prior to Oct. 1, 1978, datum 2.00 ft higher. May 4, 1959 to Dec. 4, 1962, auxiliary nonrecording gage and Dec. 5, 1962 to Apr. 6, 1969, auxiliary water-stage recorder 1.7 mi downstream from base gage at datum 74.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair between 200 and 3,000 ft³/s. No gage height recorded below 2.54 ft. Diversions above and below 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 reenters and passes stations Bayou Lafourche near Crew Lake (station 07369000) and Boeuf River near Girard (station 07368000).

AVERAGE DISCHARGE.--11 years (water years 1958-68), 952 ft³/s, 689,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s, Feb. 11, 1966; maximum gage height, 26.07 ft, present datum, Dec. 29, 1982; no flow at times in 1966, 1974, 1977, 1978, and 1987-90, result of pumping for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 15, 1948, reached a stage of 24.8 ft present datum (from records of Corps of Engineers, Vicksburg District).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 23.11 ft, Feb. 4, and Mar. 10; minimum, not determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	2.9	.00	.00		2260	157		258	1800	.00	22	24	
2	.29	.00	.00					95	1670	.00	525	83	
3	24	.00	.00	1190			1480	58		.00	669	185	
4	28	.00	.00	1730		1700	712	471		.00	401	160	
5	9.9	.00	.00			634	449	283		.00	215	155	
6	.37	12	.00			355		95		.00	80	197	
7	.00	2030	.00			228		49	594	.00	16	177	
8	.00	2930	.00					21	292	.00	.00	155	
9	.00	3180	.00	1600			1460	14	153	.00	.00	256	
10	.00	2310	.00	860			747	.00	82	.00	.00	532	
11	.00	747	.00	508			1240	.00	14	.00	.00	515	
12	.00	276	.00	305			672		.00	.00	.00	454	
13	.00	117	.00	159			382		.00	.00	.00	702	
14	.00	25	.00	86	1340	1400			.00	.00	.00	874	
15	.00	2.1	.00	73	962			1730	.00	45	25	659	
16	.00	.00	.00	56	2320		1640	675	.00	123	67	459	
17	.00	.00	.00	203	2100		690	1490	.00	8.4	64	285	
18	.00	.00	.00		838		325	643	.00	.00	111	125	
19	.00	.00	.00		533	892	179	259	.00	.02	118	59	
20	.00	.00	.00		386	558	109	502	.00	1.6	110	409	
21	.00	.00	.00			319	398	117	.00	.00	84	709	
22	.00	317	.00				293	179	.00	.00	10	910	
23	.00	493	.00				208	1970	2010	.00	3.4	.00	827
24	.00	142	.00				148	2650	806	.00	99	.00	426
25	.00	60	.00		654	106	1020	359	.00	134	32	185	
26	.00	44	.00	1150	335	114	383	152	.00	151	184	77	
27	.00	17	.00	582	202	446	316	70	.00	124	235	36	
28	.00	.00	.00	377	135	409	708	50	.00	126	158	5.0	
29	.00	.00	.00		---		478	18	.00	194	53	.00	
30	.00	.00	1230		---		498	9.5	.00	119	49	.00	
31	.00				---		---	74	---	3.7	46	---	
TOTAL	65.46	12702.10								1132.12	3274.00	9640.00	
MEAN	2.11	423								36.5	106	321	
MAX	.28	3180								194	669	910	
MIN	.00	.00								.00	.00	.00	
CFSM	.00	.54								.05	.13	.41	
IN.	.00	.60								.05	.16	.46	

RED RIVER BASIN

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.10	4.71	4.67	17.88	8.30	5.72	12.81	5.70	7.74	---	5.21	5.26
2	5.06	4.65	4.62	11.52	15.93	11.14	11.88	5.44	7.59	---	6.09	5.41
3	5.18	4.44	4.59	6.99	21.41	13.04	7.35	5.36	8.02	---	6.30	5.59
4	5.19	4.27	4.59	7.66	22.91	7.74	6.36	6.01	14.37	---	5.91	5.55
5	5.13	4.17	4.62	10.05	23.00	6.41	5.97	5.73	13.29	---	5.64	5.55
6	5.07	4.32	4.61	14.41	22.48	6.01	7.30	5.44	7.98	---	5.42	5.61
7	5.03	7.81	4.67	11.65	20.59	5.83	11.65	5.33	6.19	---	5.22	5.58
8	5.00	8.84	5.01	9.67	18.00	12.04	10.23	5.25	5.75	---	4.98	5.55
9	4.95	9.12	5.04	7.50	18.43	22.23	7.32	5.22	5.54	---	4.44	5.70
10	4.92	8.16	5.00	6.56	20.90	23.03	6.40	5.07	5.42	---	3.97	6.10
11	4.91	6.28	5.01	6.06	22.28	22.39	7.06	4.95	5.21	---	3.45	6.07
12	4.91	5.64	5.03	5.77	20.94	19.72	6.30	5.73	4.99	---	3.20	5.98
13	4.91	5.42	5.00	5.55	14.38	13.44	5.88	13.84	4.67	---	3.55	6.34
14	4.89	5.21	5.00	5.43	7.33	7.25	7.49	12.18	4.12	---	4.25	6.58
15	4.88	5.12	5.02	5.40	6.87	15.50	9.29	7.66	3.36	4.21	5.21	6.29
16	4.92	4.99	5.01	5.36	8.46	21.02	7.55	6.30	2.70	5.49	5.39	5.99
17	5.01	4.81	4.98	5.56	8.22	19.24	6.32	7.36	---	5.15	5.38	5.74
18	5.01	4.75	4.98	13.64	6.70	10.99	5.79	6.25	---	4.87	5.47	5.50
19	4.97	5.00	4.99	18.76	6.27	6.60	5.58	5.70	---	4.94	5.48	5.37
20	4.94	4.95	4.98	21.14	6.05	6.14	5.47	6.04	---	5.11	5.47	5.90
21	4.93	4.81	4.97	22.57	5.96	5.90	5.48	8.15	---	4.78	5.42	6.35
22	4.92	5.54	4.94	20.80	14.16	5.75	5.58	10.02	---	4.51	5.16	6.62
23	4.91	6.04	4.92	13.82	14.55	5.63	7.93	8.01	---	4.95	4.95	6.51
24	4.90	5.52	4.93	8.91	7.80	5.53	8.76	6.48	---	5.45	4.99	5.94
25	4.90	5.37	4.94	9.79	6.44	5.47	6.76	5.84	---	5.51	5.26	5.59
26	4.88	5.32	4.96	6.94	5.98	5.48	5.88	5.54	---	5.54	5.59	5.41
27	4.86	5.22	4.95	6.17	5.79	5.97	5.78	5.40	---	5.49	5.67	5.29
28	4.84	4.99	4.97	5.87	5.68	5.91	6.35	5.34	---	5.50	5.55	5.18
29	4.77	4.83	5.01	9.59	---	8.17	6.02	5.23	---	5.61	5.35	5.10
30	4.73	4.73	6.86	12.10	---	16.73	6.05	5.20	---	5.48	5.34	5.08
31	4.72	---	16.44	10.54	---	16.20	---	5.36	---	5.12	5.32	---
MAX	5.19	9.12	16.44	22.57	23.00	23.03	12.81	13.84	---	---	6.30	6.62
MIN	4.72	4.17	4.59	5.36	5.68	5.47	5.47	4.95	---	---	3.20	5.08

07368000 BOEUF RIVER NEAR GIRARD, LA

LOCATION.--Lat 32°28'52", long 91°47'52", on line between sec.1, T.17 N., R.6 E., and sec.6., T.17 N., R.7 E., Richland Parish, Hydrologic Unit 08050001, on downstream side of bridge on U.S. Highway 80, and 0.5 mi east of Girard.

DRAINAGE AREA.--1.226 mi² (see REMARKS).

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

GAGE.--Water-stage recorder. Datum of gage is 49.42 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Nov. 3, 1955, nonrecording gage at sites within 200 ft upstream. Prior to Oct. 1, 1966, at datum 2.20 ft higher. Water-stage recorder for Boeuf River southwest of Rayville (station 07368040) used as auxiliary gage for this station. Nov. 20, 1962, to Sept. 30, 1974, at datum 0.60 ft lower. See WSP 2120 for changes prior to Nov. 20, 1962.

REMARKS.--Estimated daily discharges. Records fair, except those for periods of no base gage heights, which are poor. 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. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--52 years, 326 ft³/s, 236,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,070 ft³/s, May 2, 1958; maximum gage height, 21.51 ft, May 6, 1958, present datum; minimum discharge, 1.4 ft³/s, Aug. 3, 4, 1986; minimum gage height, 2.61 ft, June 25, 1981.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft³/s, Jan. 21, gage height, 15.83 ft; minimum discharge, 6.2 ft³/s, July 12, 31, Aug 1, gage height, 3.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	e11	11	66	297	69	510	23	272	10	7.0	7.8
2	12	e10	11	307	270	171	512	20	236	10	15	8.6
3	12	e9.8	11	408	443	307	468	18	197	11	30	9.2
4	12	e9.6	11	325	777	410	336	17	230	14	25	9.7
5	11	e10	11	219	941	333	193	16	306	9.9	18	10
6	10	e11	11	183	996	204	111	15	370	9.4	15	11
7	10	e12	11	252	997	125	70	13	317	9.3	15	11
8	9.8	e13	11	385	969	95	64	13	198	8.2	13	11
9	10	15	11	384	924	114	115	15	103	7.9	12	11
10	10	19	11	283	1100	461	121	15	67	8.1	11	12
11	10	24	11	180	1180	727	85	14	50	7.1	9.5	12
12	10	26	12	115	1190	847	57	76	41	6.4	8.5	13
13	11	22	15	78	1150	869	45	256	35	7.0	8.2	13
14	11	14	15	59	1010	754	39	385	30	8.6	8.0	13
15	10	12	15	48	703	781	34	413	28	12	8.1	13
16	11	13	16	40	506	814	41	306	26	16	8.0	13
17	12	15	16	42	375	887	68	930	25	14	8.4	13
18	13	17	18	179	261	899	60	850	23	13	10	13
19	e12	19	19	512	175	754	44	630	21	12	12	14
20	e12	19	e20	1260	119	468	33	379	19	11	11	14
21	e12	18	e20	1540	89	248	26	285	17	11	11	13
22	e11	15	e21	1550	153	142	34	337	16	11	9.2	13
23	e11	14	e21	1450	265	92	31	372	14	11	8.4	12
24	e10	14	e22	1290	432	65	44	304	12	12	8.1	11
25	e10	26	22	1040	374	51	54	195	13	10	7.7	11
26	e11	28	24	759	225	42	57	120	13	9.6	7.4	11
27	e11	22	25	501	131	35	47	87	13	9.2	7.3	12
28	e12	18	25	315	87	32	38	92	12	8.7	7.4	12
29	e11	15	26	273	---	41	29	83	12	7.0	7.2	12
30	e11	12	31	272	---	92	26	64	11	7.1	7.2	11
31	e11	---	32	302	---	301	---	169	---	6.4	7.2	---
TOTAL	341.8	483.4	536	14617	16139	11230	3392	6512	2727	307.9	340.8	350.3
MEAN	11.0	16.1	17.3	472	576	362	113	210	90.9	9.93	11.0	11.7
MAX	13	28	32	1550	1190	899	512	930	370	16	30	14
MIN	9.8	9.6	11	40	87	32	26	13	11	6.4	7.0	7.8
AC-FT	678	959	1060	28990	32010	22270	6730	12920	5410	611	676	695
CAL YR 1989	TOTAL 65219.1		MEAN 179		MAX 1420		MIN 5.1		AC-FT 129400			
WTR YR 1990	TOTAL 56977.2		MEAN 156		MAX 1550		MIN 6.4		AC-FT 113000			

e Estimated.

RED RIVER BASIN

07368000 BOEUF RIVER NEAR GIRARD, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.06	4.65	4.88	5.77	7.80	5.22	8.99	4.37	7.69	4.14	3.99	4.03
2	4.06	4.64	4.85	7.46	7.56	6.66	9.10	4.30	7.33	4.12	4.29	4.07
3	4.06	4.63	4.83	8.38	8.71	7.65	8.84	4.26	7.35	4.17	4.64	4.09
4	4.05	4.61	4.80	7.92	10.94	8.40	8.02	4.23	8.08	4.25	4.54	4.11
5	4.03	4.64	4.77	7.07	12.00	7.94	6.85	4.19	8.14	4.12	4.36	4.13
6	4.01	4.70	4.77	6.71	12.37	6.90	5.93	4.17	8.38	4.10	4.29	4.15
7	3.99	4.82	4.81	7.26	12.42	6.05	5.31	4.11	7.92	4.09	4.28	4.16
8	3.99	4.94	4.81	8.34	12.28	5.62	5.14	4.10	6.95	4.05	4.24	4.16
9	4.00	5.01	4.80	8.41	12.04	5.74	5.75	4.17	6.08	4.04	4.18	4.16
10	4.00	5.13	4.79	7.69	13.22	8.44	5.85	4.17	5.46	4.04	4.14	4.19
11	4.00	5.23	4.82	6.75	13.61	10.43	5.42	4.15	5.13	4.00	4.10	4.19
12	4.01	5.27	4.96	5.95	13.64	11.32	5.01	5.22	4.90	3.96	4.06	4.22
13	4.03	5.18	5.05	5.38	13.41	11.56	4.79	7.45	4.78	3.99	4.05	4.22
14	4.02	5.02	5.03	5.04	12.75	11.00	4.70	8.25	4.70	4.06	4.04	4.24
15	4.01	4.96	5.04	4.84	11.12	11.54	4.61	8.47	4.65	4.21	4.04	4.23
16	4.04	4.99	5.06	4.71	9.60	11.57	4.73	7.78	4.60	4.32	4.04	4.22
17	4.08	5.03	5.07	4.80	8.52	11.86	5.15	11.85	4.58	4.26	4.06	4.22
18	4.09	5.10	5.10	7.55	7.53	11.92	5.03	11.64	4.52	4.24	4.14	4.24
19	4.09	5.12	5.13	10.24	6.67	11.14	4.78	10.39	4.45	4.20	4.18	4.26
20	4.09	5.13	---	14.51	5.97	9.28	4.58	8.60	4.40	4.16	4.17	4.28
21	4.09	5.11	---	15.68	5.53	7.57	4.45	7.73	4.36	4.15	4.15	4.24
22	4.08	5.03	---	15.74	6.56	6.43	4.57	8.02	4.32	4.17	4.09	4.22
23	4.08	5.01	---	15.33	7.35	5.70	4.54	8.15	4.27	4.18	4.06	4.18
24	4.09	5.00	---	14.71	8.51	5.21	4.78	7.64	4.21	4.19	4.04	4.17
25	4.09	5.27	5.19	13.75	8.22	4.92	4.95	6.75	4.23	4.14	4.02	4.15
26	4.13	5.30	5.23	12.27	7.10	4.75	4.99	5.94	4.24	4.11	4.01	4.17
27	4.13	5.19	5.24	10.45	6.14	4.63	4.82	5.47	4.22	4.09	4.01	4.20
28	4.15	5.11	5.24	8.77	5.51	4.58	4.67	5.49	4.20	4.07	4.01	4.21
29	4.24	5.03	5.26	8.58	---	4.73	4.51	5.37	4.19	3.99	4.00	4.20
30	4.49	4.94	5.35	8.15	---	5.79	4.45	5.10	4.16	4.00	4.00	4.18
31	4.67	---	5.36	8.01	---	7.48	---	6.39	---	3.96	4.00	---
MAX	4.67	5.30	---	15.74	13.64	11.92	9.10	11.85	8.38	4.32	4.64	4.28
MIN	3.99	4.61	---	4.71	5.51	4.58	4.45	4.10	4.16	3.96	3.99	4.03

07369000 BAYOU LAFOURCHE NEAR CREW LAKE, LA

LOCATION.--Lat 32°29'55", long 91°55'05", in NW 1/4 SW 1/4 sec.36, T.18 N., R.5 E., Ouachita - Richland Parish line, Hydrologic Unit 08050001, near center of span on downstream side of bridge on U.S. Highway 80, 1.1 mi upstream from Illinois Central Gulf Railroad bridge, and 2.5 mi west of town of Crew Lake.

DRAINAGE AREA.--361 mi² (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 National Geodetic Vertical Datum of 1929 (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. Water-stage recorder for Bayou Lafourche near Alto (station 07369050) used as auxiliary gage for this station since Oct. 1, 1957.

REMARKS.--Estimated daily discharges. Records fair, except for periods of indefinite stage-discharge relationship at times during the year, which are 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. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--52 years, 1,790 ft³/s, 1,297,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,800 ft³/s, May 2, 1958; maximum gage height, 29.32 ft, Jan. 2, 1983. Maximum daily reverse flow 210 ft³/s, Apr. 27, 1989; no flow at times in August, September, and October 1952, June 1984, result of pumping for irrigation. No flow Mar. 17, 1989, backwater from Ouachita River.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 17,000 ft³/s was measured Dec. 24, 1931 (from reports of Corps of Engineers, Vicksburg District).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,200 ft³/s, Jan. 22, gage height, 27.05 ft; minimum daily discharge, 29 ft³/s, Nov. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	55	78	9790	5190	e1600	12300	e500	2430	e450	144	125
2	127	44	67	9950	8500	4300	10800	e500	4010	e440	243	118
3	121	34	60	5430	12900	8200	7320	e450	2560	e430	594	133
4	124	30	48	3730	14300	5520	e6000	e400	7930	e420	664	142
5	115	29	47	4440	14400	e3000	e4500	e400	8050	e410	505	151
6	107	37	48	6870	13900	e1400	e3300	e400	5650	e400	444	142
7	107	298	91	8640	13400	e1200	2400	e350	e5000	e390	275	153
8	94	2060	208	7650	12800	1580	4830	e350	e4000	e380	165	167
9	87	2940	167	5020	13700	11300	3260	e350	e3500	e370	121	178
10	83	3000	136	2710	14800	13400	e2400	e300	e3000	e360	96	340
11	80	1900	114	1660	15500	13100	e1800	e290	e2500	e340	71	436
12	80	724	87	1090	15400	12700	e1300	e1000	e2000	e330	60	416
13	80	311	73	e900	14400	11300	e1000	6370	e1500	e310	63	398
14	77	183	71	678	11300	6510	e800	8580	e1000	e289	58	648
15	77	118	76	498	6680	10100	2700	5640	e900	250	73	773
16	83	95	55	425	4640	13600	e4200	e2000	e850	297	125	595
17	84	71	62	459	3800	13900	e3200	8690	e800	310	183	433
18	74	60	76	6840	e3000	12400	e2600	9850	e750	229	180	300
19	68	56	94	13900	e2500	6570	e2000	4650	e700	164	187	208
20	65	61	e95	16800	e2000	e5000	e1700	e3000	e600	139	184	271
21	65	80	e90	18800	e1700	e4000	e1300	4850	e580	147	201	764
22	61	313	84	18800	6060	e3000	e1000	7990	e580	124	250	701
23	64	3090	81	18000	9680	e2000	e1000	5470	e580	162	192	903
24	65	2010	68	15400	6600	e1500	e2000	e3000	e570	488	135	709
25	66	865	76	13300	e5000	e1300	e1600	e2000	e560	495	140	419
26	66	450	80	10800	e3500	e1100	e1200	e1000	e550	399	161	252
27	66	303	71	6250	e2500	e1000	e1000	e700	e540	333	177	176
28	67	225	65	e5600	e2000	e950	e800	e800	e520	239	177	133
29	63	137	82	5420	---	1650	e800	e700	e500	200	173	104
30	61	90	852	7620	---	11800	e600	e600	e500	186	149	86
31	63	---	6090	6920	---	13200	---	e1000	---	155	143	---
TOTAL	2576	19669	9392	234390	240150	198180	89710	82180	63210	9636	6333	10374
MEAN	83.1	656	303	7561	8577	6393	2990	2651	2107	311	204	346
MAX	136	3090	6090	18800	15500	13900	12300	9850	8050	495	664	903
MIN	61	29	47	425	1700	950	600	290	500	124	58	86
AC-FT	5110	39010	18630	464900	476300	393100	177900	163000	125400	19110	12560	20580
CAL YR 1989	TOTAL 1144929.00			MEAN 3137	MAX 19500	MIN 0	AC-FT 2271000					
WTR YR 1990	TOTAL 965800			MEAN 2646	MAX 18800	MIN 29	AC-FT 1916000					

e Estimated.

RED RIVER BASIN

07369000 BAYOU LAFOURCHE NEAR CREW LAKE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.57	.96	1.17	18.82	19.13	15.38	24.29	14.00	18.91	13.23	1.61	1.50
2	1.51	.86	1.08	19.49	20.89	18.36	23.71	13.69	19.40	12.69	2.06	1.45
3	1.48	.76	1.01	15.04	23.67	21.07	22.14	13.51	18.94	12.13	3.26	1.55
4	1.50	.72	.90	11.43	24.58	19.69	19.27	13.32	21.77	11.55	3.47	1.61
5	1.43	.71	.89	11.99	24.80	16.84	17.68	13.06	22.06	10.93	3.00	1.65
6	1.38	.79	.90	15.11	24.73	15.75	17.21	12.83	20.98	10.22	2.81	1.61
7	1.39	1.92	1.24	18.02	24.59	15.30	18.01	12.61	18.84	9.44	2.22	1.67
8	1.29	6.57	1.95	17.75	24.35	15.83	19.16	12.39	17.92	8.59	1.73	1.74
9	1.24	8.26	1.74	14.71	24.63	21.94	18.57	12.19	17.70	7.71	1.48	1.80
10	1.21	8.39	1.57	10.80	25.34	23.83	17.41	11.92	17.65	6.67	1.30	2.45
11	1.19	6.41	1.43	8.06	25.70	24.02	17.09	11.83	17.65	5.43	1.11	2.78
12	1.18	3.59	1.24	5.93	25.78	23.97	16.94	12.60	17.64	4.04	1.01	2.72
13	1.18	2.35	1.12	4.49	25.60	23.45	16.67	18.29	17.66	2.90	1.04	2.66
14	1.15	1.82	1.11	3.50	24.70	20.91	16.56	20.56	17.63	2.28	.99	3.41
15	1.15	1.46	1.15	2.98	22.64	22.64	17.71	18.72	17.61	2.14	1.12	3.75
16	1.21	1.30	.96	2.75	20.90	24.55	17.77	15.76	17.56	2.30	1.49	3.27
17	1.22	1.11	1.03	2.82	19.38	24.85	16.89	20.44	17.50	2.35	1.83	2.77
18	1.13	1.01	1.15	16.33	17.77	24.48	16.37	22.16	17.40	2.05	1.81	2.31
19	1.08	.98	1.29	24.23	16.60	22.20	16.14	19.04	17.29	1.73	1.85	1.94
20	1.06	1.02	---	25.97	16.05	18.89	15.99	16.67	17.15	1.59	1.83	2.17
21	1.05	1.18	---	26.80	15.77	17.18	15.76	18.45	16.96	1.63	1.91	3.73
22	1.02	2.05	1.21	27.00	19.69	16.63	15.56	20.97	16.75	1.49	2.13	3.57
23	1.05	8.56	1.19	26.93	22.25	16.26	15.55	19.63	16.46	1.70	1.87	4.07
24	1.05	6.78	1.08	26.50	20.87	15.96	16.08	17.60	16.17	2.95	1.56	3.58
25	1.07	3.96	1.15	26.03	17.67	15.78	15.78	16.70	15.84	2.97	1.59	2.72
26	1.07	2.83	1.19	25.12	16.40	15.63	15.15	16.36	15.50	2.66	1.72	2.13
27	1.07	2.32	1.11	23.06	15.96	15.52	14.83	16.21	15.12	2.43	1.80	1.79
28	1.08	2.02	1.06	20.29	15.65	15.53	14.69	16.24	14.73	2.08	1.80	1.55
29	1.03	1.57	1.20	20.66	---	16.72	14.57	16.13	14.26	1.91	1.77	1.36
30	1.02	1.26	3.45	21.54	---	23.51	14.27	16.05	13.77	1.84	1.64	1.23
31	1.03	---	13.61	20.82	---	24.44	---	17.27	---	1.68	1.61	---
MAX	1.57	8.56	---	27.00	25.78	24.85	24.29	22.16	22.06	13.23	3.47	4.07
MIN	1.02	.71	---	2.75	15.65	15.30	14.27	11.83	13.77	1.49	.99	1.23

07369500 TENSAS RIVER AT TENDAL, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°25'55", long 91°22'00", in NW 1/4 sec.29, T.17 N., R.11 E., Madison Parish, Hydrologic Unit 08050003, near right bank on upstream side of bridge on U.S. Highway 80 at Tendal, 200 ft upstream from Illinois Central Gulf Railroad bridge, and 2.8 mi east of Waverly.

DRAINAGE AREA.--309 mi² (see REMARKS).

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929. 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. Water-stage recorder for Tensas River southeast of Tendal (07369515) used as auxiliary gage for this station since Oct. 1, 1957. See WSP 1711 and 1731 for history of changes prior to Oct. 1, 1957.

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

AVERAGE DISCHARGE.--54 years (water years 1936-90), 348 ft³/s, 252.100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,610 ft³/s, Nov. 19, 1948; maximum gage height, 26.34 ft, Dec. 4, 1982; minimum discharge, 1.7 ft³/s, Oct. 5, 1981, but may have been less during period of indefinite stage-discharge relation in October 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 15, 1927 (affected by overflow from Mississippi River) reached a stage of 34.02 ft and is the highest since then.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,000 ft³/s, Jan. 20, gage height, 22.33 ft; maximum gage height, 23.10 ft, Jan. 25; minimum discharge, 4.4 ft³/s, Nov. 5, gage height, 5.10 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	5.8	22	159	1540	525	181	67	2240	45	45	29
2	12	5.8	15	176	1410	1150	149	56	2090	46	50	28
3	14	6.3	12	150	1630	1360	133	45	1690	47	53	27
4	14	5.9	10	246	1840	1040	129	41	1420	47	52	28
5	14	5.2	9.7	408	1610	795	121	38	1170	47	50	32
6	15	7.5	9.2	718	1300	643	108	33	910	46	50	34
7	15	9.1	11	847	1030	547	94	31	726	45	47	34
8	15	10	18	1030	865	492	81	30	592	45	43	31
9	15	12	28	880	823	585	69	24	511	44	39	28
10	15	13	31	668	1780	583	60	21	475	45	38	28
11	13	12	33	513	2020	528	55	18	518	48	36	27
12	11	12	30	401	1740	481	52	23	396	52	35	29
13	11	11	27	304	1390	439	53	378	330	59	36	46
14	11	10	25	264	1120	401	55	728	279	73	37	108
15	11	9.6	25	197	937	1160	82	639	249	76	38	120
16	11	11	23	148	829	1750	102	546	225	74	40	98
17	12	11	20	141	749	1490	100	1500	151	66	42	68
18	11	11	20	1540	692	1090	87	1540	111	60	43	46
19	10	11	21	2960	624	841	73	1190	119	62	41	35
20	9.9	10	20	2920	558	724	60	863	130	63	39	31
21	9.1	9.9	23	2900	544	618	51	745	120	62	39	34
22	8.1	14	21	2800	1500	533	44	987	94	59	42	32
23	8.1	52	21	2670	1760	443	40	952	79	58	44	30
24	7.5	120	18	2650	1380	377	58	765	75	64	42	30
25	6.9	152	15	2790	1040	317	84	664	97	68	39	27
26	6.5	145	13	2730	804	244	86	580	105	75	37	24
27	6.5	118	13	2600	682	187	79	510	89	68	36	21
28	6.5	88	13	2390	584	149	71	456	70	57	35	19
29	6.5	58	16	2420	---	126	67	421	57	49	33	18
30	6.2	34	21	2180	---	144	72	380	49	45	32	16
31	6.1	---	82	1890	---	196	---	950	---	43	30	---
TOTAL	329.9	980.1	665.9	42690	32781	19958	2496	15221	15167	1738	1263	1158
MEAN	10.6	32.7	21.5	1377	1171	644	83.2	491	506	56.1	40.7	38.6
MAX	15	152	82	2960	2020	1750	181	1540	2240	76	53	120
MIN	6.1	5.2	9.2	141	544	126	40	18	49	43	30	16
AC-FT	654	1940	1320	84680	65020	39590	4950	30190	30080	3450	2510	2300

CAL YR 1989 TOTAL 184462.9 MEAN 505 MAX 3290 MIN 5.2 AC-FT 365900
WTR YR 1990 TOTAL 134447.9 MEAN 368 MAX 2960 MIN 5.2 AC-FT 266700

RED RIVER BASIN

07369500 TENSAS RIVER AT TENDAL, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.44	5.14	5.44	7.16	19.23	11.61	7.70	6.41	19.75	5.71	5.71	5.47
2	5.46	5.14	5.33	7.32	18.52	14.86	7.39	6.26	20.17	5.72	5.77	5.44
3	5.50	5.16	5.27	7.08	18.92	16.52	7.22	6.11	19.37	5.74	5.82	5.43
4	5.52	5.15	5.23	7.92	19.73	15.62	7.17	6.05	18.57	5.74	5.81	5.45
5	5.51	5.13	5.21	9.19	19.28	14.42	7.08	6.00	17.72	5.74	5.79	5.52
6	5.51	5.20	5.20	11.38	18.28	13.28	6.94	5.93	16.70	5.73	5.77	5.54
7	5.51	5.24	5.25	12.63	17.18	12.16	6.77	5.90	15.74	5.71	5.73	5.54
8	5.49	5.28	5.37	14.10	16.26	11.14	6.60	5.88	14.87	5.70	5.67	5.49
9	5.48	5.34	5.54	13.75	15.77	11.18	6.44	5.77	14.05	5.69	5.62	5.45
10	5.46	5.37	5.59	12.53	18.62	11.16	6.32	5.72	13.34	5.71	5.60	5.44
11	5.41	5.34	5.62	11.19	19.66	10.66	6.25	5.67	13.03	5.75	5.58	5.43
12	5.34	5.33	5.58	9.94	19.23	10.12	6.21	5.75	11.98	5.81	5.56	5.46
13	5.31	5.32	5.53	8.88	18.27	9.60	6.22	9.03	10.87	5.91	5.57	5.72
14	5.30	5.28	5.50	8.09	17.23	9.16	6.25	12.42	9.74	6.09	5.58	6.53
15	5.30	5.26	5.50	7.52	16.30	13.84	6.61	12.67	8.68	6.13	5.60	6.68
16	5.32	5.29	5.46	7.05	15.46	17.44	6.87	12.10	7.73	6.11	5.63	6.41
17	5.33	5.29	5.42	6.93	14.64	17.12	6.84	15.89	7.00	6.00	5.67	6.02
18	5.32	5.30	5.41	15.54	13.82	15.82	6.67	17.53	6.57	5.92	5.68	5.72
19	5.29	5.30	5.43	21.00	12.93	14.57	6.49	16.71	6.66	5.95	5.65	5.56
20	5.27	5.29	5.42	22.01	12.00	13.42	6.31	15.34	6.79	5.96	5.62	5.50
21	5.25	5.27	5.46	22.63	11.27	12.33	6.19	14.65	6.68	5.94	5.62	5.55
22	5.21	5.38	5.43	22.71	16.39	11.31	6.09	15.48	6.36	5.90	5.67	5.51
23	5.21	6.08	5.42	22.57	18.20	10.36	6.04	15.39	6.17	5.90	5.69	5.48
24	5.19	6.92	5.38	22.58	17.39	9.48	6.30	14.53	6.12	5.98	5.66	5.48
25	5.18	7.16	5.32	23.09	16.05	8.77	6.64	13.56	6.40	6.03	5.61	5.42
26	5.17	7.03	5.29	22.93	14.82	8.21	6.66	12.59	6.50	6.11	5.59	5.37
27	5.17	6.74	5.28	22.52	13.70	7.75	6.57	11.62	6.30	6.02	5.58	5.33
28	5.17	6.38	5.28	21.94	12.59	7.39	6.47	10.75	6.05	5.87	5.55	5.29
29	5.17	5.99	5.34	21.86	---	7.14	6.42	9.90	5.88	5.77	5.52	5.27
30	5.15	5.64	5.43	21.25	---	7.33	6.47	9.13	5.76	5.71	5.51	5.25
31	5.15	---	6.29	20.34	---	7.83	---	12.82	---	5.68	5.49	---
MAX	5.52	7.16	6.29	23.09	19.73	17.44	7.70	17.53	20.17	6.13	5.82	6.68
MIN	5.15	5.13	5.20	6.93	11.27	7.14	6.04	5.67	5.76	5.68	5.49	5.25

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1955-57, 1966-73, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1967 to September 1968, November 1971 to September 1972, April 1975 to September 1981.

WATER TEMPERATURES: October 1967 to September 1968, April 1975 to September 1981.

INSTRUMENTATION.--Water-quality monitor April 1975 to September 1979.

REMARKS.--The temperature range for the water-quality monitor, 0.0 °C to 36.5 °C. Water-quality monitor removed September 1979. Samples for daily temperature and specific conductance were collected by an observer October 1979 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 824 micromhos Sept. 3, 1981; minimum, 42 micromhos May 29, 1978.

WATER TEMPERATURES: Maximum, higher than 36.5 °C Aug. 10, Sept. 1, 1977; minimum, 2.0 °C Feb. 10, 1978.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 2.0 °C was observed Jan. 23, 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCHI, KF AGAR (COLS. PER 100 ML)
OCT 26...	1615	6.5	652	8.41	20.0	5	15	13.1	4.4	54	44
JAN 26...	0830	2370	79	7.29	12.0	120	220	7.5	2.8	300	>2500
APR 13...	0900	53	367	7.73	16.5	5	40	6.9	2.2	K85	120
JUL 12...	1230	52	567	7.94	29.5	10	30	5.1	5.0	K26	44

DATE	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 26...	280	71	24	36	3.7	305	12	28	0.2	19	359
JAN 26...	27	7.3	2.1	2.6	2.7	31	2.0	1.5	0.1	7.3	45
APR 13...	150	41	12	16	3.8	171	7.0	11	0.3	9.8	202
JUL 12...	180	46	16	51	4.5	277	9.5	26	0.2	12	323

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 26...	375	E<0.01	E<0.10	E0.04	E<0.01	E0.2	E0.21	E0.06	E0.07	<10	2
JAN 26...	45	0.01	0.26	0.14	0.04	1.1	0.35	0.13	0.13	80	1
APR 13...	205	0.03	0.50	0.12	0.12	0.7	0.05	0.04	0.04	<10	1
JUL 12...	322	0.02	<0.10	0.17	0.01	1.0	0.15	0.06	0.04	10	7

< Actual value is known to be less than the value shown.

> Actual value is known to be greater than the value shown.

E Estimated.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 26...	170	<0.5	<1	<1	<3	<1	3	<1	12	280	<0.1
JAN 26...	22	<0.5	<1	<1	<3	1	120	<1	<4	5	<0.1
APR 13...	98	<0.5	<1	<1	<3	5	4	<1	6	200	<0.1
JUL 12...	130	<0.5	<1	<1	<3	3	10	<1	9	260	0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 26...	<10	1	<1	<1	290	<6	7	49	0.86	92
JAN 26...	<10	2	<1	<1	33	<6	6	290	2140	99
APR 13...	<10	2	<1	<1	170	<6	<3	99	14	98
JUL 12...	<10	2	<1	<1	200	<6	<3	110	15	95

< Actual value is known to be less than the value shown.

07370000 BAYOU MACON NEAR DELHI, LA

LOCATION.--Lat 32°27'25", long 91°28'30", in NE 1/4 SE 1/4 sec.18, T.17 N., R.10 E., Madison - Richland Parish line, Hydrologic Unit 08050002, near right bank on downstream side of bridge on U.S. Highway 80, 0.2 mi upstream from Illinois Central Gulf Railroad bridge, and 1.0 mi east of Delhi.

DRAINAGE AREA.--782 mi².

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 National Weather Service; September 1925 to December 1931 in files of Corps of Engineers, Vicksburg District; and since January 1932 in reports of Corps of Engineers, Vicksburg District.

REVISED RECORDS.--WDR LA-77-1: 1976.

GAGE.--Water-stage recorder. Datum of gage is 50.05 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Mar. 14, 1949, nonrecording gage; Mar. 14, 1949 to Oct. 1, 1963, water-stage recorder; all gages within 2,000 ft downstream at same datum. Auxiliary water-stage recorder 7.7 mi downstream from base gage at datum 46.05 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 9, 1972, auxiliary gages at different sites and datum. See WDR LA-76-1 for history of changes prior to Mar. 9, 1972.

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

AVERAGE DISCHARGE.--55 years, 974 ft³/s, 705,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,480 ft³/s, Jan. 21, 1979; maximum gage height, 26.00 ft, May 6, 7, 1958; no flow May 25, 26, 28, June 1, 1963, June 11, 1988, and June 12 to July 4, 1988 result of temporary dam; minimum gage height observed, 4.13 ft, June 21, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1882 reached a stage of 37.5 ft, present site and datum, from records of National Weather Service (affected by overflow from Mississippi River).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,630 ft³/s, Jan. 21, gage height 23.10 ft; minimum daily discharge, 7.1 ft³/s, Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	140	146	1810	1300	402	990	195	1590	69	136	136
2	162	141	144	1720	1960	2230	2040	199	1230	79	216	134
3	159	138	143	1270	3150	3080	1970	213	816	63	284	137
4	154	136	133	1140	3550	2190	1100	206	2030	48	250	121
5	146	136	135	1410	3020	1150	641	169	2130	36	218	105
6	145	154	139	1650	2450	637	480	140	1100	35	184	83
7	147	158	153	1980	1990	498	412	135	488	34	145	71
8	142	250	160	2270	1720	707	468	143	313	45	123	71
9	139	401	167	1760	2520	3090	465	142	230	80	107	99
10	140	377	154	1020	4490	4130	410	131	195	80	96	120
11	138	303	159	605	5200	3160	395	104	328	60	87	155
12	139	260	150	431	4020	2360	398	289	190	82	83	207
13	138	224	138	329	2660	1570	360	2220	127	185	85	291
14	138	202	136	270	1870	896	344	2270	116	297	60	291
15	137	192	144	237	1700	2710	634	1400	108	301	28	325
16	141	178	130	217	3010	4600	866	772	111	242	12	272
17	148	161	129	326	2830	3630	643	2310	111	174	7.1	205
18	144	158	135	2770	1840	2460	452	2260	113	140	13	162
19	136	153	145	4660	881	1830	357	1010	110	124	25	142
20	134	147	141	6580	663	1180	317	489	104	112	50	142
21	133	148	147	7550	628	735	296	1930	94	108	104	176
22	136	255	142	7060	2990	615	270	3170	87	113	126	180
23	140	1520	125	6040	3640	533	298	2490	96	123	146	162
24	141	1060	121	4750	2510	473	299	1420	115	178	143	133
25	141	446	123	4600	1690	425	264	473	120	245	158	118
26	139	275	134	3460	1000	389	234	265	121	215	175	112
27	140	210	137	2340	570	364	221	213	107	162	162	108
28	140	189	142	1610	450	353	263	227	97	135	147	107
29	140	166	148	1520	---	363	296	228	92	135	147	110
30	141	152	182	1580	---	792	234	179	75	138	146	109
31	143	---	871	1410	---	1210	---	987	---	134	140	---
TOTAL	4426	8430	5153	74375	64302	48762	16417	26379	12544	3972	3803.1	4584
MEAN	143	281	166	2399	2296	1573	547	851	418	128	123	153
MAX	165	1520	871	7550	5200	4600	2040	3170	2130	301	284	325
MIN	133	136	121	217	450	353	221	104	75	34	7.1	71
AC-FT	8780	16720	10220	147500	127500	96720	32560	52320	24880	7880	7540	9090
CAL YR 1989	TOTAL 303845		MEAN 832		MAX 7640		MIN 43		AC-FT 602700			
WTR YR 1990	TOTAL 273147.1		MEAN 748		MAX 7550		MIN 7.1		AC-FT 541800			

RED RIVER BASIN

07370000 BAYOU MACON NEAR DELHI, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.23	7.13	7.16	9.77	10.15	7.87	8.79	7.34	10.06	6.76	7.32	7.32
2	7.22	7.13	7.15	9.66	10.02	10.54	10.10	7.35	9.49	6.82	7.58	7.31
3	7.21	7.12	7.14	9.10	12.53	12.48	9.98	7.39	8.61	6.72	7.75	7.33
4	7.19	7.11	7.10	8.96	15.56	10.96	8.90	7.37	10.08	6.60	7.66	7.20
5	7.16	7.11	7.11	9.25	15.59	8.97	8.31	7.24	10.21	6.48	7.59	7.06
6	7.15	7.19	7.13	9.55	14.26	8.31	8.03	7.13	8.92	6.48	7.49	6.86
7	7.16	7.20	7.18	9.99	12.41	8.07	7.89	7.11	8.15	6.46	7.36	6.78
8	7.14	7.48	7.21	10.39	10.31	8.34	8.01	7.14	7.81	6.56	7.22	6.77
9	7.13	7.87	7.24	9.70	10.94	11.98	8.00	7.14	7.62	6.83	7.08	7.01
10	7.13	7.82	7.19	8.81	15.98	14.24	7.89	7.09	7.52	6.84	6.98	7.19
11	7.12	7.63	7.21	8.25	18.58	13.67	7.86	6.96	7.84	6.70	6.90	7.39
12	7.13	7.51	7.17	7.93	17.96	11.65	7.86	7.43	7.51	6.88	6.85	7.56
13	7.12	7.42	7.12	7.70	15.97	9.48	7.78	10.33	7.24	7.49	6.88	7.76
14	7.12	7.35	7.11	7.54	13.52	8.67	7.74	10.42	7.16	7.78	6.69	7.76
15	7.12	7.33	7.15	7.45	11.10	11.40	8.28	9.26	7.09	7.79	6.39	7.84
16	7.13	7.28	7.08	7.40	11.96	15.75	8.64	8.50	7.11	7.65	6.13	7.72
17	7.17	7.22	7.08	7.60	12.54	15.87	8.31	10.65	7.12	7.47	6.02	7.55
18	7.15	7.20	7.11	11.54	10.15	13.87	7.98	10.95	7.14	7.34	6.14	7.43
19	7.11	7.18	7.15	17.35	8.65	11.19	7.77	8.84	7.10	7.22	6.35	7.35
20	7.10	7.16	7.14	20.77	8.35	9.03	7.67	8.04	7.05	7.12	6.61	7.35
21	7.10	7.16	7.16	22.86	8.29	8.46	7.62	10.03	6.96	7.08	7.05	7.47
22	7.11	7.45	7.14	22.99	11.88	8.27	7.54	12.38	6.90	7.13	7.24	7.49
23	7.13	9.41	7.06	22.32	14.81	8.13	7.62	11.78	6.98	7.21	7.37	7.43
24	7.13	8.85	7.04	21.29	13.70	8.02	7.62	9.44	7.15	7.47	7.36	7.29
25	7.13	7.95	7.05	21.16	11.13	7.92	7.53	8.11	7.19	7.65	7.42	7.18
26	7.13	7.56	7.10	19.91	8.86	7.84	7.44	7.70	7.20	7.58	7.47	7.12
27	7.13	7.38	7.12	17.94	8.20	7.79	7.41	7.57	7.08	7.43	7.43	7.09
28	7.13	7.31	7.14	15.81	7.97	7.76	7.52	7.61	6.99	7.31	7.38	7.08
29	7.13	7.23	7.16	14.81	---	7.78	7.61	7.61	6.94	7.31	7.38	7.10
30	7.13	7.18	7.28	13.93	---	8.48	7.44	7.48	6.80	7.33	7.37	7.09
31	7.14	---	8.57	12.21	---	9.03	---	8.70	---	7.30	7.35	---
MAX	7.23	9.41	8.57	22.99	18.58	15.87	10.10	12.38	10.21	7.79	7.75	7.84
MIN	7.10	7.11	7.04	7.40	7.97	7.76	7.41	6.96	6.80	6.46	6.02	6.77

07371500 DUGDEMONA RIVER NEAR JONESBORO, LA

LOCATION.--Lat 32°12'25", long 92°48'05", in SW 1/4 sec.8, T.14 N., R.4 W., Bienville - Jackson Parish line, Hydrologic Unit 08040303, on left bank just upstream from bridge on State Highway 4, 200 ft downstream from Brush Creek, 1.5 mi downstream from McDonald Creek, and 5.4 mi west of Jackson Parish courthouse in Jonesboro.

DRAINAGE AREA.--355 mi².

PERIOD OF RECORD.--October 1938 to September 1957, October 1977 to current year. November 1957 to September 1977 (annual maximum, daily gage heights, and miscellaneous discharge measurements only).

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 116.53 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 29, 1938, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Records good. Water used by paper mill at Hodge is pumped from wells and discharged into stream about 7 mi above station. Most of effluent is discharged continually whenever mill is operating, but some waste water is stored in a reservoir and released whenever river flow is sufficient to materially dilute it. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--32 years (water years 1939-57, 1978-90), 535 ft³/s, 310,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,500 ft³/s, Dec. 28, 1982, gage height, 21.20 ft, from floodmark; minimum gage height, 2.67 ft, Sept. 26, 1955. Minimum discharge observed, 0.4 ft³/s, Aug. 31, 1954 (discharge measurement), but may have been less in September 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	1800	*10,600	*16.27	Mar. 31	1900	5,780	14.61
Feb. 4	0900	4,930	14.21	May 14	1500	5,070	14.28
Feb. 11	2230	3,780	13.55	June 3	0930	3,200	13.35

Minimum discharge, 12 ft³/s, Sept. 26, gage height, 3.51 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	19	24	355	2420	411	4550	193	1810	28	23	18
2	20	18	23	391	2420	576	2730	126	2030	25	34	17
3	20	17	22	415	3570	1120	1840	97	3010	24	34	17
4	19	18	24	341	4710	1360	1300	85	2520	23	26	17
5	19	18	24	247	3550	1360	850	153	2140	22	23	17
6	19	22	24	285	2430	1070	544	326	1920	20	25	17
7	19	25	27	368	1780	696	453	340	1520	20	25	14
8	18	23	30	433	1370	483	431	217	1020	19	22	13
9	17	31	31	477	1170	431	411	130	535	19	20	14
10	17	40	36	463	2050	538	370	97	318	18	18	16
11	16	52	35	383	3540	822	380	84	220	18	18	15
12	15	37	34	283	3470	998	424	186	153	18	18	16
13	16	29	31	209	2490	835	435	1480	119	18	18	17
14	16	25	29	162	1810	561	385	4480	100	17	21	18
15	16	24	28	135	1350	629	427	3530	88	17	19	18
16	16	21	27	119	979	1110	498	2130	78	17	14	17
17	20	19	24	114	703	1390	559	1480	67	18	16	17
18	22	20	25	489	560	1490	464	1080	60	18	22	18
19	21	21	28	3020	474	1220	329	897	53	18	21	19
20	21	24	27	9330	409	804	252	986	47	18	19	19
21	25	25	28	8640	387	502	202	838	42	17	18	18
22	24	24	e29	5370	707	380	170	519	38	18	17	16
23	23	24	e31	3230	1170	320	152	403	34	18	16	17
24	23	39	32	2340	1320	285	134	350	31	18	22	17
25	21	88	29	2520	1350	256	116	286	29	19	20	14
26	20	70	28	2590	1130	229	105	209	25	18	17	13
27	20	44	27	2460	747	206	98	171	25	17	18	13
28	20	35	26	2010	484	193	132	272	27	20	19	16
29	19	29	30	2220	---	359	201	224	33	21	18	14
30	19	25	56	2770	---	2320	228	149	31	21	18	15
31	20	---	208	2980	---	5160	---	335	---	22	17	---
TOTAL	601	906	1077	55149	48550	28114	19170	21853	18123	604	636	487
MEAN	19.4	30.2	34.7	1779	1734	907	639	705	604	19.5	20.5	16.2
MAX	25	88	208	9330	4710	5160	4550	4480	3010	28	34	19
MIN	15	17	22	114	387	193	98	84	25	17	14	13
AC-FT	1190	1800	2140	109400	96300	55760	38020	43350	35950	1200	1260	966
CAL YR 1989	TOTAL 321288		MEAN 880		MAX 22400		MIN 15		AC-FT 637300			
WTR YR 1990	TOTAL 195270		MEAN 535		MAX 9330		MIN 13		AC-FT 387300			

e Estimated.

RED RIVER BASIN

07371500 DUGDEMONA RIVER NEAR JONESBORO, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.79	3.82	4.06	8.53	12.49	8.75	13.98	6.76	11.80	4.02	3.87	3.76
2	3.78	3.77	4.01	8.82	12.48	9.47	12.75	5.89	12.09	3.95	4.24	3.75
3	3.78	3.74	3.97	9.00	13.40	10.79	11.86	5.45	13.00	3.91	4.28	3.74
4	3.77	3.77	4.03	8.38	14.10	11.19	11.10	5.25	12.58	3.87	4.06	3.75
5	3.76	3.78	4.04	7.39	13.38	11.19	10.27	6.21	12.20	3.81	3.98	3.75
6	3.77	3.92	4.05	7.82	12.49	10.71	9.40	8.14	11.96	3.77	4.03	3.72
7	3.76	4.05	4.14	8.63	11.78	9.90	8.99	8.27	11.43	3.76	4.05	3.60
8	3.72	3.97	4.24	9.12	11.21	9.13	8.87	7.03	10.62	3.72	3.94	3.55
9	3.68	4.24	4.26	9.41	10.89	8.86	8.75	5.95	9.31	3.71	3.86	3.60
10	3.67	4.45	4.40	9.33	12.04	9.37	8.51	5.46	8.06	3.68	3.79	3.67
11	3.63	4.72	4.37	8.75	13.39	10.22	8.58	5.23	7.06	3.68	3.78	3.63
12	3.60	4.41	4.36	7.80	13.33	10.59	8.83	6.39	6.26	3.67	3.76	3.69
13	3.62	4.18	4.26	6.93	12.55	10.25	8.89	11.16	5.80	3.66	3.80	3.75
14	3.64	4.05	4.21	6.36	11.83	9.47	8.61	13.95	5.51	3.64	3.89	3.76
15	3.66	4.01	4.18	6.01	11.17	9.68	8.84	13.36	5.30	3.64	3.80	3.77
16	3.66	3.91	4.15	5.79	10.54	10.78	9.20	12.18	5.13	3.64	3.58	3.75
17	3.81	3.85	4.07	5.70	9.94	11.24	9.48	11.37	4.93	3.66	3.70	3.75
18	3.91	3.87	4.09	8.99	9.48	11.39	9.03	10.72	4.78	3.68	3.94	3.79
19	3.87	3.91	4.19	12.85	9.09	10.97	8.17	10.39	4.64	3.69	3.90	3.80
20	3.88	4.04	4.16	15.87	8.74	10.17	7.43	10.56	4.51	3.65	3.83	3.83
21	4.00	4.05	4.17	15.67	8.62	9.21	6.86	10.25	4.41	3.63	3.76	3.79
22	4.00	4.05	---	14.40	9.88	8.57	6.49	9.29	4.31	3.67	3.71	3.70
23	3.95	4.04	---	13.15	10.88	8.11	6.25	8.71	4.21	3.65	3.68	3.73
24	3.93	4.42	4.29	12.41	11.14	7.77	6.01	8.36	4.13	3.67	3.94	3.74
25	3.89	5.40	4.20	12.58	11.18	7.47	5.76	7.78	4.05	3.73	3.87	3.61
26	3.84	5.08	4.18	12.65	10.81	7.17	5.59	6.95	3.95	3.65	3.75	3.54
27	3.82	4.59	4.16	12.53	10.03	6.91	5.48	6.49	3.94	3.64	3.78	3.55
28	3.82	4.37	4.11	12.07	9.13	6.77	5.97	7.63	4.00	3.74	3.82	3.67
29	3.81	4.21	4.23	12.28	---	8.05	6.85	7.11	4.18	3.79	3.78	3.59
30	3.80	4.09	4.81	12.81	---	12.23	7.16	6.22	4.12	3.80	3.76	3.65
31	3.83	---	6.95	12.99	---	14.31	---	7.36	---	3.83	3.75	---
MAX	4.00	5.40	---	15.87	14.10	14.31	13.98	13.95	13.00	4.02	4.28	3.83
MIN	3.60	3.74	---	5.70	8.62	6.77	5.48	5.23	3.94	3.63	3.58	3.54

07372200 LITTLE RIVER NEAR ROCHELLE, LA

LOCATION.--Lat 31°45'15", long 92°20'40", in NW 1/4 sec.41, T.9 N., R.1 E., Grant - La Salle Parish line, Hydrologic Unit 08040304, 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 mi northeast of Zenoria, and 3.0 mi southeast of Rochelle.

DRAINAGE AREA.--1,899 mi².

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

REVISED RECORDS.--WDR LA-1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.79 ft above National Geodetic Vertical Datum of 1929. Water-stage recorder for station Little River at Rochelle (station 07372190) used as auxiliary gage for this station since May 9, 1960. Prior to May 9, 1960, auxiliary nonrecording gage 5.1 mi upstream from base gage at same datum. Nonrecording gage read twice daily at auxiliary gage from Jan. 3, 1983 to Sept. 30, 1986.

REMARKS.--Estimated daily discharges. Records good. Natural flow is supplemented by effluent from operation of several oil fields upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--33 years, 2,264 ft³/s, 16.19 in/yr, 1,640,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 108,000 ft³/s, Dec. 29, 1982, gage height, 45.88 ft, from floodmark; minimum discharge, 9.6 ft³/s, Sept. 26, 27, 1980, gage height, 4.87 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,000 ft³/s, Jan. 23, gage height, 38.21 ft; maximum gage height, 38.22 ft, Jan. 24; minimum discharge, 24 ft³/s, Sept. 10, 11, 15, 16, 17, gage height, 4.88 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	e46	135	364	16500	3950	3500	857	3650	e240	132	36
2	50	e44	141	721	15300	4010	4210	913	5120	e210	128	34
3	49	e41	129	950	13900	4760	4860	892	6550	e180	122	33
4	48	e40	114	1120	13100	5200	5700	840	7530	e160	111	31
5	47	e40	100	1340	13000	5330	6810	780	8290	e150	104	30
6	47	e39	88	1650	12900	5310	7770	734	e8600	e130	109	31
7	47	e39	89	1880	12500	5180	8250	657	e8600	e120	112	28
8	46	e38	93	2230	12200	4930	8050	588	e8400	e110	103	27
9	46	39	97	2390	12000	4480	7280	541	e7900	e100	95	26
10	46	36	99	2420	12000	3840	6220	539	e7200	89	85	25
11	46	35	97	2390	11900	3270	5180	564	6260	e84	74	26
12	45	36	97	2280	11700	2850	4300	876	e5400	e80	67	27
13	45	45	124	2080	11700	2490	3520	3570	e4800	e76	64	25
14	45	56	159	1810	11800	2170	2890	5340	e4200	e72	63	25
15	45	67	165	1510	11600	3300	2700	7170	e3800	e68	62	25
16	45	80	157	1270	11100	5000	2770	9070	e3300	e66	55	24
17	45	98	145	1090	10500	5910	2720	10700	e2800	e64	51	25
18	45	109	135	2550	9910	6620	2500	11000	e2300	e62	49	32
19	45	108	127	5760	9150	7160	2290	10300	e1900	e60	46	53
20	44	98	118	8360	8190	7440	2050	9460	e1600	e60	41	64
21	44	86	109	13500	7170	7300	1820	8530	e1400	e58	39	68
22	44	78	101	26000	6860	6770	1640	7530	e1100	e59	48	61
23	45	72	99	37400	6830	5960	1480	6500	e900	e62	55	51
24	49	65	97	38000	6680	5000	1330	5330	e700	114	60	42
25	50	62	95	34300	6210	3870	1110	4230	537	103	56	36
26	48	63	98	28800	5690	2950	900	3330	e460	121	48	34
27	46	68	102	23500	5260	2290	772	2680	e410	155	46	32
28	50	74	104	19100	4720	1740	731	2240	e360	283	45	31
29	52	82	107	17700	---	1380	749	2380	e320	311	46	30
30	51	104	119	17000	---	1900	804	2320	e280	246	42	29
31	48	---	173	16900	---	2830	---	2050	---	173	39	---
TOTAL	1454	1888	3613	316365	290370	135190	104906	122511	114667	3866	2197	1041
MEAN	46.9	62.9	117	10210	10370	4361	3497	3952	3822	125	70.9	34.7
MAX	52	109	173	38000	16500	7440	8250	11000	8600	311	132	68
MIN	44	35	88	364	4720	1380	731	539	280	58	39	24
AC-FT	2880	3740	7170	627500	575900	268100	208100	243000	227400	7670	4360	2060
CFSM	.02	.03	.06	5.37	5.46	2.30	1.84	2.08	2.01	.07	.04	.02
IN.	.03	.04	.07	6.20	5.69	2.65	2.06	2.40	2.25	.08	.04	.02

CAL YR 1989 TOTAL 1854874 MEAN 5082 MAX 64400 MIN 35 AC-FT 3679000 CFSM 2.68 IN. 36.34
WTR YR 1990 TOTAL 1098068 MEAN 3008 MAX 38000 MIN 24 AC-FT 2178000 CFSM 1.58 IN. 21.51

e Estimated.

RED RIVER BASIN

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.37	---	6.49	8.42	34.39	25.98	24.19	18.17	26.19	---	6.56	5.14
2	5.34	---	6.60	10.98	34.03	26.04	24.99	18.07	27.73	19.47	6.47	5.11
3	5.32	---	6.50	12.36	33.56	26.82	25.87	17.94	28.29	---	6.40	5.08
4	5.30	---	6.32	13.26	33.27	27.14	26.80	17.76	28.78	---	6.28	5.04
5	5.29	---	6.13	14.33	33.12	27.20	27.98	17.59	29.35	---	6.19	5.02
6	5.28	---	5.96	15.61	33.00	27.09	29.01	17.44	---	---	6.25	5.04
7	5.28	---	5.99	16.63	32.78	26.92	29.53	17.26	---	---	6.28	4.97
8	5.27	---	6.04	17.96	32.55	26.65	29.50	17.12	---	---	6.17	4.94
9	5.27	5.08	6.09	18.54	32.44	26.17	29.03	17.08	---	---	6.07	4.92
10	5.27	5.05	6.13	18.63	32.47	25.38	28.23	17.04	---	13.56	5.93	4.90
11	5.26	5.03	6.10	18.53	32.38	24.38	27.29	17.10	28.50	12.81	5.77	4.93
12	5.26	5.07	6.09	18.14	32.22	23.43	26.33	17.55	---	---	5.67	4.95
13	5.25	5.24	6.36	17.41	32.17	22.66	25.20	21.90	---	---	5.63	4.91
14	5.25	5.44	6.76	16.33	32.25	22.07	24.07	25.53	---	---	5.61	4.89
15	5.25	5.64	6.86	15.12	32.13	24.40	23.70	27.96	---	---	5.60	4.89
16	5.24	5.85	6.80	14.14	31.84	27.07	23.57	29.79	---	---	5.49	4.88
17	5.24	6.11	6.69	13.39	31.53	27.91	23.20	31.00	---	---	5.41	4.91
18	5.24	6.26	6.58	19.62	31.16	28.39	22.78	31.26	24.39	---	5.39	5.05
19	5.24	6.25	6.48	27.73	30.68	28.82	22.26	30.92	---	---	5.32	5.44
20	5.24	6.11	6.37	29.95	30.06	29.13	21.70	30.39	---	---	5.24	5.62
21	5.23	5.94	6.26	32.78	29.37	29.13	21.16	29.79	---	---	5.20	5.69
22	5.24	5.81	6.16	36.05	29.23	28.76	20.70	29.11	---	---	5.35	5.57
23	5.25	5.72	6.12	37.93	29.07	28.10	20.32	28.32	---	---	5.48	5.40
24	5.33	5.61	6.09	38.18	28.82	27.20	19.92	27.34	---	6.31	5.56	5.25
25	5.35	5.54	6.07	37.79	28.40	25.99	19.53	26.24	22.46	6.18	5.50	5.15
26	5.31	5.56	6.12	36.95	27.86	24.58	19.18	25.17	---	6.36	5.36	5.10
27	5.26	5.66	6.17	36.06	27.31	23.25	18.90	24.30	---	6.58	5.33	5.07
28	5.33	5.75	6.19	35.24	26.72	22.15	18.67	23.92	---	7.76	5.31	5.04
29	5.39	5.87	6.24	34.93	---	21.60	18.48	23.98	---	8.15	5.33	5.02
30	5.36	6.18	6.35	34.62	---	22.42	18.30	23.94	---	7.74	5.26	5.00
31	5.31	---	6.84	34.51	---	23.55	---	23.98	---	7.07	5.19	---
MAX	5.39	---	6.86	38.18	34.39	29.13	29.53	31.26	---	---	6.56	5.69
MIN	5.23	---	5.96	8.42	26.72	21.60	18.30	17.04	---	---	5.19	4.88

07373000 BIG CREEK AT POLLOCK, LA
(Hydrologic bench-mark station)

LOCATION.--Lat 31°32'10", long 92°24'30", in SW 1/4 SE 1/4 sec.31, T.7 N., R.1 E., Grant Parish, Hydrologic Unit 08040304, near right bank on downstream side of bridge on U.S. Highway 165, 0.5 mi upstream from Sugar Branch, 0.8 mi upstream from water-supply diversion dam, 0.8 mi north of Pollock, and 1.3 mi downstream from Dyson Creek.

DRAINAGE AREA.--51 mi², approximately.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR LA-75-1: 1958(M), 1966(M).

GAGE.--Water-stage recorder with a data-collection platform and rain gage, concrete control. Datum of gage is 76.69 ft above National Geodetic Vertical Datum of 1929. See WDR-LA-88-1 for history of changes prior to Oct. 1, 1988.

REMARKS.--Estimated daily discharges. Records good.

AVERAGE DISCHARGE.--48 years, 63.6 ft³/s, 16.94 in/yr, 46,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 23,500 ft³/s, Apr. 29, 1953, gage height, 18.03 ft; maximum gage height, 18.58 ft, Nov. 16, 1987; minimum discharge, 3.7 ft³/s, Sept. 29, 1956, gage height, 1.08 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 950 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 18	1730	*3,490	*12.25	Jan. 25	2230	1,600	11.10

Minimum discharge, 13 ft³/s, Sept. 29, 30, gage height, 2.81 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	20	22	32	98	102	65	35	726	34	20	15
2	22	20	22	27	125	270	58	33	201	25	21	15
3	21	19	21	32	200	129	51	33	84	23	20	17
4	20	19	21	119	279	85	48	40	87	25	19	16
5	19	20	21	79	117	73	46	35	58	39	18	16
6	19	20	22	122	88	67	51	32	50	29	18	18
7	19	22	52	131	79	64	54	31	44	24	19	15
8	19	22	49	102	75	62	46	31	39	23	17	15
9	19	23	30	56	385	60	45	42	36	22	16	31
10	18	22	26	43	508	58	99	36	34	21	16	36
11	18	20	25	38	230	55	139	31	36	21	17	21
12	18	20	24	34	113	54	67	40	33	24	17	24
13	18	20	23	31	89	61	56	48	31	25	16	22
14	18	20	23	31	81	63	90	37	30	22	17	22
15	18	20	23	31	91	530	114	33	29	20	19	22
16	20	19	22	31	83	266	68	30	27	20	16	20
17	19	19	22	34	66	119	54	73	28	22	15	18
18	19	19	26	2080	67	87	50	47	26	22	15	17
19	19	20	34	1600	83	74	47	35	26	22	15	22
20	19	21	31	1580	68	66	45	36	25	20	17	20
21	19	21	27	707	99	62	44	40	24	45	16	17
22	20	34	24	171	448	60	42	39	23	29	16	17
23	19	51	23	104	143	57	40	32	23	21	24	16
24	19	30	26	465	89	55	38	31	23	22	24	16
25	19	25	25	1490	74	51	37	29	22	31	19	16
26	18	25	e25	324	67	50	37	27	25	23	18	16
27	18	25	e26	129	64	50	44	67	25	20	17	16
28	18	26	e27	124	63	53	55	117	25	18	16	15
29	17	24	29	711	---	122	44	63	23	18	15	14
30	18	21	31	333	---	152	37	39	36	17	15	14
31	20	---	34	130	---	89	---	208	---	17	17	---
TOTAL	591	687	836	10921	3972	3146	1711	1450	1899	744	580	559
MEAN	19.1	22.9	27.0	352	142	101	57.0	46.8	63.3	24.0	18.7	18.6
MAX	24	51	52	2080	508	530	139	208	726	45	51	36
MIN	17	19	21	27	63	50	37	27	22	17	15	14
AC-FT	1170	1360	1660	21660	7880	6240	3390	2880	3770	1480	1150	1110
CFSM	.37	.45	.53	6.91	2.78	1.99	1.12	.92	1.24	.47	.37	.37
IN.	.43	.50	.61	7.97	2.90	2.29	1.25	1.06	1.39	.54	.42	.41

CAL YR 1989	TOTAL 33887	MEAN 92.8	MAX 3330	MIN 17	AC-FT 67210	CFSM 1.82	IN. 24.72
WTR YR 1990	TOTAL 27096	MEAN 74.2	MAX 2080	MIN 14	AC-FT 53740	CFSM 1.46	IN. 19.76

e Estimated.

RED RIVER BASIN

07373000 BIG CREEK AT POLLOCK, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.04	2.98	3.00	3.15	3.64	3.65	3.44	3.16	7.69	3.14	2.94	2.85
2	3.02	2.97	3.01	3.08	3.77	4.57	3.39	3.14	4.23	3.03	2.97	2.86
3	2.99	2.96	2.99	3.14	4.17	3.79	3.34	3.14	3.54	2.99	2.95	2.90
4	2.98	2.96	2.99	3.72	4.66	3.57	3.31	3.22	3.56	3.02	2.93	2.87
5	2.96	2.97	3.00	3.52	3.73	3.49	3.30	3.16	3.37	3.16	2.91	2.86
6	2.96	2.98	3.01	3.75	3.59	3.46	3.34	3.13	3.29	3.08	2.91	2.91
7	2.96	3.01	3.32	3.80	3.53	3.44	3.36	3.11	3.24	3.01	2.93	2.86
8	2.96	3.01	3.31	3.65	3.51	3.42	3.29	3.12	3.20	2.99	2.90	2.84
9	2.95	3.03	3.12	3.37	5.51	3.41	3.28	3.24	3.17	2.98	2.88	3.02
10	2.94	3.01	3.07	3.27	6.39	3.39	3.60	3.17	3.14	2.96	2.87	3.14
11	2.94	2.98	3.05	3.21	4.38	3.37	3.83	3.12	3.16	2.97	2.88	2.97
12	2.94	2.97	3.04	3.18	3.71	3.37	3.44	3.20	3.13	3.01	2.90	3.00
13	2.94	2.97	3.03	3.14	3.59	3.41	3.36	3.29	3.11	3.03	2.87	2.98
14	2.94	2.98	3.02	3.14	3.55	3.42	3.56	3.18	3.09	2.98	2.88	2.97
15	2.94	2.98	3.02	3.13	3.60	6.54	3.70	3.14	3.08	2.95	2.94	2.98
16	2.98	2.96	3.01	3.14	3.56	4.61	3.45	3.11	3.06	2.95	2.88	2.94
17	2.96	2.95	3.01	3.17	3.45	3.74	3.34	3.46	3.06	2.97	2.86	2.91
18	2.96	2.97	3.07	10.20	3.45	3.58	3.30	3.28	3.04	2.98	2.86	2.90
19	2.97	2.98	3.17	9.91	3.56	3.50	3.28	3.16	3.04	2.98	2.85	2.98
20	2.96	2.99	3.13	10.01	3.46	3.45	3.26	3.17	3.02	2.95	2.88	2.94
21	2.97	3.00	3.08	7.15	3.62	3.42	3.25	3.21	3.01	3.21	2.88	2.90
22	2.97	3.14	3.04	4.00	5.91	3.41	3.23	3.20	3.00	3.08	3.30	2.89
23	2.96	3.34	3.03	3.67	3.86	3.39	3.22	3.13	3.00	2.97	3.01	2.88
24	2.96	3.12	3.07	5.70	3.59	3.37	3.19	3.11	2.99	2.97	3.00	2.86
25	2.95	3.05	3.05	9.95	3.50	3.34	3.18	3.09	2.99	3.10	2.93	2.87
26	2.95	3.06	---	5.03	3.46	3.33	3.19	3.07	3.02	2.99	2.91	2.87
27	2.94	3.06	---	3.78	3.44	3.33	3.25	3.33	3.02	2.94	2.89	2.87
28	2.94	3.07	---	3.78	3.43	3.35	3.35	3.72	3.03	2.92	2.87	2.86
29	2.93	3.04	3.11	7.64	---	3.74	3.26	3.41	2.99	2.91	2.86	2.83
30	2.93	3.00	3.14	5.10	---	3.90	3.19	3.20	3.13	2.89	2.86	2.83
31	2.97	---	3.17	3.79	---	3.59	---	4.32	---	2.90	2.90	---
MAX	3.04	3.34	---	10.20	6.39	6.54	3.83	4.32	7.69	3.21	3.30	3.14
MIN	2.93	2.95	---	3.08	3.43	3.33	3.18	3.07	2.99	2.89	2.85	2.83

07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1943, 1959, 1965 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1964 to September 1973, October 1974 to September 1976.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.0 °C July 30 to Aug. 1, 1976; minimum, 2.0 °C Jan. 15, 1969, Jan. 10, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 27...	1100	18	40	7.13	16.0	10	2.6	9.6	0.8	230	240
JAN 26...	1310	324	30	6.52	12.0	40	15	11.2	4.2	680	900
APR 13...	1145	56	33	6.84	14.5	--	11	9.6	1.8	100	240
JUL 12...	1400	24	41	6.35	26.0	30	9.2	7.6	1.2	490	K2400
DATE	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 27...	7	1.6	0.72	4.7	1.4	14	<1.0	4.0	<0.1	22	--
JAN 26...	6	1.6	0.57	2.0	1.1	5	4.0	2.3	<0.1	10	30
APR 13...	10	2.1	1.1	3.2	1.1	12	2.2	4.0	<0.1	16	31
JUL 12...	8	1.8	0.81	4.2	1.3	14	<1.0	4.1	<0.1	19	43
DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	PHOS-PHOROUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 27...	--	<0.01	<0.10	0.02	<0.01	0.3	<0.01	<0.01	<0.01	30	<1
JAN 26...	25	<0.01	0.11	0.05	0.03	0.8	0.05	0.02	0.01	130	<1
APR 13...	36	<0.01	<0.10	0.02	0.02	0.4	0.02	<0.01	<0.01	60	<1
JUL 12...	--	<0.01	<0.10	--	--	0.3	0.03	<0.01	<0.01	60	<1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 27...	22	<0.5	<1	<1	<3	<1	140	<1	<4	21	<0.1
JAN 26...	33	<0.5	<1	<1	<3	<10	190	<10	<4	140	<0.1
APR 13...	31	<0.5	<1	<1	<3	2	310	<1	<4	60	<0.1
JUL 12...	33	<0.5	<1	<1	<3	2	270	<1	<4	84	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 27...	<10	<1	<1	<1	16	<6	10	5	0.24	92
JAN 26...	<10	<10	<1	<1	14	<6	3	56	49	94
APR 13...	<10	1	<1	<1	21	<6	7	19	2.9	90
JUL 12...	<10	<1	<1	<1	17	<6	<3	25	1.6	82

DATE	GROSS ALPHA, DIS- SOLVED (µG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (µG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (µG/L AS U)
OCT 27...	<0.4	<0.4	2.0	<0.4	1.6	<0.4	0.09	0.01

< Actual value is known to be less than the value shown.

07373250 HEMPHILL CREEK AT NEBO, LA

LOCATION.--Lat 31°35'04", long 92°07'55", in NW 1/4 NE 1/4 in sec.39, T.7 N., R.3 E., La Salle Parish, Hydrologic Unit 08040304, at left bank on downstream side of bridge on State Highway 460, 0.6 mi east of Nebo, 1.4 mi upstream from Mason Creek, and 2.2 mi downstream from Mill Creek.

DRAINAGE AREA.--35.3 mi².

PERIOD OF RECORD.--Occasional low-flow and miscellaneous measurements, water years 1956-63, 1966-67, 1970. August 1978 to current year.

REVISED RECORDS.--WDR LA-82-1: 1979-81(M).

GAGE.--Water-stage recorder. Datum of gage is 46.58 ft above National Geodetic Vertical Datum of 1929. August 1978 to July 27, 1988, water-stage recorder at site 300 ft upstream at same datum.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--12 years, 61.2 ft³/s, 23.54 in/yr, 44,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s, Nov. 16, 1987, gage height, 14.93 ft; minimum discharge, 8.2 ft³/s, part of each day Aug. 4, 5, 6, 11, 12, 13, 14, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 24	2230	3,020	9.02	Feb. 3	1630	*4,250	*10.01

Minimum daily discharge, 18 ft³/s, Oct. 9, 13-15, July 30, Sept. 4-8, 29-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	20	23	51	74	40	27	234	25	e21	19
2	19	20	20	22	60	248	38	26	71	24	e22	20
3	19	20	20	30	1250	62	36	27	114	27	e21	19
4	19	20	20	72	236	43	35	30	73	33	e20	18
5	19	21	20	51	96	37	33	26	53	25	e19	18
6	19	21	20	55	74	33	36	26	46	25	e19	18
7	19	21	78	94	64	31	34	25	41	23	e20	18
8	19	22	32	60	66	29	32	26	40	22	e19	18
9	18	20	27	36	370	28	31	32	38	22	e19	19
10	19	20	26	31	341	26	117	26	36	22	e20	66
11	19	20	25	29	86	24	70	25	35	22	e22	23
12	19	21	24	27	60	24	43	465	34	26	e20	24
13	18	21	24	26	51	23	38	226	33	26	e19	25
14	18	22	24	25	45	26	58	63	32	23	21	31
15	18	22	24	24	54	775	51	49	31	23	21	31
16	20	20	23	23	50	122	40	42	30	25	20	21
17	19	20	23	24	38	76	36	55	30	28	20	20
18	19	20	29	735	40	61	34	41	29	25	20	21
19	20	20	31	197	41	54	32	39	28	26	20	21
20	19	20	25	1020	35	50	31	41	27	25	22	20
21	20	20	24	171	249	47	30	40	27	23	28	19
22	19	37	22	68	410	45	29	35	25	22	21	19
23	19	29	26	49	70	42	28	32	25	22	20	19
24	19	21	30	979	49	41	29	31	25	22	20	19
25	19	21	26	553	41	39	31	30	25	22	20	19
26	19	21	24	93	37	39	30	29	27	21	20	19
27	19	20	23	64	34	38	37	253	29	e20	19	19
28	19	25	23	76	32	40	46	169	27	e19	19	19
29	19	20	27	515	---	52	32	62	25	e19	19	18
30	19	20	25	89	---	79	28	44	24	e18	19	18
31	20	---	26	60	---	46	---	263	---	e19	19	---
TOTAL	590	645	811	5321	4030	2354	1185	2305	1314	724	629	658
MEAN	19.0	21.5	26.2	172	144	75.9	39.5	74.4	43.8	23.4	20.3	21.9
MAX	20	37	78	1020	1250	775	117	465	234	33	28	66
MIN	18	20	20	22	32	23	28	25	24	18	19	18
AC-FT	1170	1280	1610	10550	7990	4670	2350	4570	2610	1440	1250	1310
CFSM	.54	.61	.74	4.86	4.08	2.15	1.12	2.11	1.24	.66	.57	.62
IN.	.62	.68	.85	5.61	4.25	2.48	1.25	2.43	1.38	.76	.66	.69

CAL YR 1989	TOTAL 23809	MEAN 65.2	MAX 2790	MIN 17	AC-FT 47230	CFSM 1.85	IN. 25.09
WTR YR 1990	TOTAL 20566	MEAN 56.3	MAX 1250	MIN 18	AC-FT 40790	CFSM 1.60	IN. 21.67

e Estimated.

RED RIVER BASIN

07373250 HEMPHILL CREEK AT NEBO, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.66	1.66	1.69	1.74	2.30	2.41	1.99	1.79	3.40	1.83	---	1.81
2	1.65	1.66	1.69	1.73	2.39	3.59	1.95	1.78	2.37	1.82	---	1.82
3	1.64	1.66	1.68	1.85	5.61	2.42	1.92	1.79	2.62	1.87	---	1.82
4	1.63	1.66	1.69	2.34	3.57	2.20	1.91	1.83	2.38	1.97	---	1.80
5	1.63	1.67	1.69	2.13	2.74	2.12	1.89	1.77	2.16	1.85	---	1.79
6	1.64	1.68	1.70	2.20	2.54	2.07	1.93	1.77	2.08	1.84	---	1.79
7	1.64	1.68	2.39	2.57	2.44	2.03	1.89	1.76	2.03	1.82	---	1.79
8	1.64	1.70	1.88	2.24	2.46	2.00	1.87	1.77	2.01	1.81	---	1.80
9	1.63	1.67	1.81	1.95	4.06	1.98	1.85	1.87	1.98	1.81	---	1.82
10	1.63	1.67	1.79	1.87	3.96	1.95	2.62	1.78	1.95	1.81	---	2.36
11	1.64	1.67	1.77	1.84	2.65	1.93	2.33	1.76	1.94	1.81	---	1.90
12	1.63	1.67	1.77	1.80	2.40	1.91	2.02	3.30	1.93	1.87	---	1.91
13	1.63	1.68	1.76	1.79	2.29	1.91	1.96	3.31	1.91	1.88	---	1.92
14	1.63	1.70	1.76	1.78	2.23	1.94	2.20	2.28	1.90	1.83	1.83	1.99
15	1.63	1.69	1.76	1.77	2.33	5.11	2.13	2.10	1.89	1.83	1.82	2.01
16	1.66	1.66	1.75	1.75	2.29	2.81	1.98	2.02	1.88	1.86	1.81	1.87
17	1.65	1.67	1.75	1.75	2.14	2.41	1.93	2.18	1.87	1.92	1.81	1.85
18	1.65	1.68	1.84	5.13	2.16	2.26	1.90	2.00	1.86	1.86	1.81	1.87
19	1.65	1.69	1.87	3.25	2.17	2.17	1.87	1.97	1.86	1.88	1.81	1.87
20	1.64	1.69	1.78	5.81	2.08	2.12	1.84	1.99	1.84	1.87	1.85	1.85
21	1.65	1.69	1.76	3.21	2.93	2.08	1.83	1.99	1.84	1.84	1.95	1.84
22	1.65	1.94	1.74	2.48	4.03	2.05	1.82	1.91	1.82	1.82	1.83	1.84
23	1.65	1.84	1.79	2.28	2.50	2.02	1.80	1.87	1.81	1.82	1.82	1.83
24	1.64	1.71	1.85	4.93	2.27	2.00	1.81	1.85	1.82	1.83	1.82	1.83
25	1.64	1.71	1.79	4.39	2.17	1.97	1.84	1.84	1.83	1.83	1.81	1.83
26	1.64	1.70	1.75	2.72	2.11	1.96	1.83	1.81	1.86	1.81	1.81	1.83
27	1.64	1.70	1.74	2.44	2.07	1.96	1.95	2.83	1.89	---	1.81	1.83
28	1.64	1.78	1.74	2.50	2.05	1.98	2.06	3.13	1.86	---	1.80	1.82
29	1.64	1.69	1.81	4.44	---	2.15	1.86	2.26	1.83	---	1.80	1.82
30	1.65	1.69	1.78	2.68	---	2.43	1.81	2.05	1.83	---	1.81	1.82
31	1.67	---	1.79	2.40	---	2.07	---	3.08	---	---	1.81	---
MAX	1.67	1.94	2.39	5.81	5.61	5.11	2.62	3.31	3.40	---	---	2.36
MIN	1.63	1.66	1.68	1.73	2.05	1.91	1.80	1.76	1.81	---	---	1.79

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°45'30", long 91°23'45", in lot 31, T.3 S., R.11 E., Pointe Coupee-West Feliciana Parish line, Hydrologic Unit 08070100, at State Highway 10 Ferry Crossing, 2.0 mi southwest of St. Francisville, and at mile 266.0.

DRAINAGE AREA.--1,125,300 mi², contributing.

PERIOD OF RECORD.--Water years 1954 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1954 to September 1972, October 1974 to April 17, 1990 (discontinued).

WATER TEMPERATURES: August 1954 to September 1972, October 1974 to April 17, 1990 (discontinued).

SULFATE: October 1974 to September 1978.

CHLORIDE: October 1974 to April 17, 1990 (discontinued).

DISSOLVED SOLIDS: October 1978 to April 17, 1990 (discontinued).

REMARKS.--See records of daily discharge for Mississippi River at Tarbert Landing, MS (station 07295100). Corps of Engineers station 01100. Extremes for current year for specific conductances, chlorides, and dissolved solids and water temperatures are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 683 micromhos Oct. 16, 1955; minimum daily, 173 micromhos Apr. 15, 1955.

WATER TEMPERATURES: Maximum daily, 32.0 °C July 24, 1983; minimum daily, 1.0 °C Jan. 29, 30, 1961, Dec. 25, 1989.

SULFATE: Maximum daily, 90 mg/L Oct. 14, 1957; minimum daily, 21 mg/L May 20, 1978.

CHLORIDE: Maximum daily, 63 mg/L July 5, 1977; minimum daily, 7.2 mg/L Nov. 2, 1984.

DISSOLVED SOLIDS: Maximum, 321 mg/L Jan. 21-31, 1981; minimum, 125 mg/L Mar. 1-10, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY LEVEL (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT												
06...	1230	375000	375	7.75	21.5	15	44	<1	7.8	0.5	26	900
DEC												
01...	1330	373000	326	7.85	11.0	15	39	<1	10.5	1.8	30	1800
21...	1415	230000	355	7.86	4.0	5	18	<1	12.8	3.6	25	680
JAN												
08...	1100	267000	318	7.68	5.5	20	77	<1	13.0	4.6	30	860
FEB												
20...	1130	995000	255	7.46	12.0	10	68	<1	10.4	2.6	36	1000
MAR												
05...	1015	1110000	252	7.46	10.5	20	55	<1	10.1	1.6	26	560
APR												
17...	1130	733000	355	7.82	15.0	15	37	<1	8.5	2.2	24	130
MAY												
01...	1030	740000	319	7.77	22.0	20	--	<1	8.2	1.4	21	120
JUN												
25...	1245	965000	317	7.51	28.0	30	62	<1	7.0	2.2	41	500
JUL												
17...	1100	506000	376	7.40	28.0	10	75	<1	6.4	1.2	27	K150
AUG												
14...	1045	354000	448	8.01	28.0	5	70	<1	6.8	0.6	29	K180
SEP												
17...	1130	315000	445	7.66	32.5	5	32	<1	7.2	1.0	19	100

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLI-FORM, FECCAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCHI FECCAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)
OCT 06...	52	160	140	37	11	19	3.7	109	46	20	0.2	6.6
DEC 01...	160	92	130	35	11	15	3.1	91	48	14	--	--
21...	K50	K28	150	40	11	17	2.6	117	42	17	0.2	6.2
JAN 08...	340	1100	120	34	9.4	--	--	102	29	14	--	--
FEB 20...	110	320	96	27	6.8	9.8	2.4	78	29	12	0.1	6.0
MAR 05...	100	120	100	29	6.9	--	--	70	34	12	--	--
APR 17...	K40	K50	140	37	11	18	3.0	109	40	23	0.2	6.1
MAY 01...	K32	K16	120	32	10	--	--	92	42	22	--	--
JUN 25...	K22	240	130	35	9.3	10	3.1	102	36	13	0.2	6.6
JUL 17...	K56	84	170	44	14	--	--	127	35	15	--	--
AUG 14...	K56	K100	180	47	15	20	3.4	134	60	18	0.3	7.8
SEP 17...	K32	K44	180	47	16	--	--	136	50	18	--	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)
OCT 06...	209	209	3	0.02	<0.01	1.2	1.3	0.03	0.01	0.8	0.4	0.14
DEC 01...	--	---	109	0.01	--	0.83	--	--	--	--	0.28	0.28
21...	206	197	43	0.03	--	0.80	--	--	--	--	0.6	--
JAN 08...	--	--	317	0.04	--	0.65	--	--	--	--	0.59	0.27
FEB 20...	155	139	107	0.07	0.03	1.1	1.1	0.10	0.03	1.3	0.4	0.11
MAR 05...	--	--	151	0.03	--	1.1	--	--	--	--	0.40	0.16
APR 17...	209	204	125	0.03	0.02	1.3	1.2	<0.01	0.02	0.9	0.6	0.11
MAY 01...	--	--	100	0.02	--	1.2	--	--	--	--	0.38	<0.02
JUN 25...	181	180	178	0.02	<0.01	1.5	1.5	0.04	0.02	0.5	0.6	0.11
JUL 17...	--	--	192	0.02	--	3.2	--	--	--	--	0.54	0.29
AUG 14...	262	264	208	0.04	<0.01	2.5	2.5	0.05	0.03	1.1	0.5	0.13
SEP 17...	--	--	84	<0.01	--	2.2	--	--	--	--	0.83	0.21

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)
OCT												
06...	0.09	0.07	<10	2	1	57	<10	<0.5	<1	<1	<1	4
DEC												
01...	--	--	--	2	<1	--	<10	<10	<1	<1	--	<10
21...	--	--	--	<1	<1	--	<10	<0.5	<1	<1	--	1
JAN												
08...	--	--	--	4	<1	--	<10	<10	<1	<1	--	<10
FEB												
20...	0.03	0.04	40	1	1	41	<10	0.6	<1	<1	<1	1
MAR												
05...	--	--	--	2	<1	--	<10	<10	<1	<1	--	10
APR												
17...	0.05	0.04	20	2	1	57	<10	<0.5	<1	<1	<1	4
MAY												
01...	--	--	--	2	<1	--	<10	<10	<1	<1	--	<10
JUN												
25...	0.08	0.06	--	2	1	--	<10	<0.5	1	<1	--	8
JUL												
17...	--	--	--	3	2	--	<10	<10	3	<1	--	--
AUG												
14...	0.12	0.11	<10	3	2	75	<10	<0.5	<1	<1	<1	37
SEP												
17...	--	--	--	3	2	--	<10	<10	1	<1	--	48

DATE	CHRO- MIUM, HEXA- VALENT, DIS- (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)
OCT												
06...	<1	<3	13	6	6	5	<1	9	1	<0.1	<0.1	<10
DEC												
01...	<1	--	20	2	<25	6	<1	--	--	<0.1	<0.1	--
21...	<1	--	8	3	12	10	<1	--	--	<0.1	<0.1	--
JAN												
08...	<1	--	9	5	30	1	<1	--	--	<0.1	<0.1	--
FEB												
20...	<1	<3	7	4	53	1	1	7	9	<0.1	0.1	<10
MAR												
05...	<1	--	6	3	30	5	<1	--	--	<0.1	<0.1	--
APR												
17...	1	<3	7	4	25	30	1	6	3	<0.1	<0.1	<10
MAY												
01...	<1	--	9	4	30	6	<1	--	--	<0.1	<0.1	--
JUN												
25...	<1	--	11	5	8	7	<1	--	--	<0.1	<0.1	--
JUL												
17...	<1	--	16	6	<25	8	<1	--	--	0.1	0.2	--
AUG												
14...	2	<3	13	13	4	7	<1	14	3	<0.1	<0.1	<10
SEP												
17...	<1	--	10	9	<25	5	<1	--	--	<0.1	<0.1	--

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT 06...	6	1	<1	<1	<1	190	<6	40	10	4.9	<0.01
DEC 01...	8	<1	<1	<1	--	--	<1	30	<10	5.9	<0.01
21...	5	1	<1	<1	--	--	<1	30	6	3.6	<0.01
JAN 08...	8	2	<1	<1	--	--	<1	30	10	6.4	<0.01
FEB 20...	3	1	<1	<1	1	110	<6	20	10	5.6	<0.01
MAR 05...	6	1	<1	<1	--	--	<1	30	<10	4.4	<0.01
APR 17...	6	2	<1	<1	<1	150	<6	30	5	5.2	<0.01
MAY 01...	4	<1	<1	<1	--	--	<1	20	<10	5.6	<0.01
JUN 25...	8	2	<1	<1	--	--	2	20	5	6.6	<0.01
JUL 17...	6	2	<1	<1	--	--	2	30	10	7.4	<0.01
AUG 14...	15	3	<1	<1	<1	190	<6	30	11	6.3	<0.01
SEP 17...	11	7	<1	<1	--	--	2	30	<10	5.3	<0.01
DATE	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)
OCT 06...	5	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 01...	2	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21...	1	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 08...	<1	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 20...	5	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 05...	6	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 17...	2	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
MAY 01...	2	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 25...	7	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 17...	7	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01
AUG 14...	2	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01
SEP 17...	14	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01

< Actual value is known to be less than the value shown.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	ENDO-SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA-CHLOR, TOTAL (µG/L)	HEPTA-CHLOR EPOXIDE, TOTAL (µG/L)	LINDANE, TOTAL (µG/L)	MALATHION, TOTAL (µG/L)	METH-OXY-CHLOR, TOTAL (µG/L)	METHYL PARA-THION, TOTAL (µG/L)	METHYL TRI-THION, TOTAL (µG/L)	MIREX, TOTAL (µG/L)
OCT 06...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 01...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01
21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 08...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 05...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 01...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
JUN 25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 14...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	PARA-THION, TOTAL (µG/L)	PER-THANE, TOTAL (µG/L)	TOX-APHENE, TOTAL (µG/L)	TOTAL TRI-THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP, TOTAL (µG/L)	2,4,5-T, TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 06...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	183	185000	81
DEC 01...	0.05	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	215	217000	71
21...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	75	46600	73
JAN 08...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	403	291000	91
FEB 20...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	250	672000	60
MAR 05...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	183	546000	56
APR 17...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	170	336000	69
MAY 01...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	160	320000	75
JUN 25...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	222	578000	86
JUL 17...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	262	358000	90
AUG 14...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	228	218000	96
SEP 17...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	106	90200	95

< Actual value is known to be less than the value shown.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 °C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	347	322	---	312	245	316					
2	340	329	319	247	291	240	325					
3	342	323	329	369	299	243	320					
4	347	322	338	344	270	244	330					
5	360	326	334	345	283	246	342					
6	355	335	323	326	293	249	332					
7	356	332	347	315	306	255	333					
8	361	323	351	316	331	261	331					
9	388	334	271	---	316	263	332					
10	391	354	292	256	297	268	332					
11	374	337	321	297	272	274	326					
12	360	335	308	308	263	278	325					
13	374	344	343	333	268	285	328					
14	341	351	---	330	265	284	335					
15	331	349	359	334	259	285	338					
16	335	---	360	357	240	284	344					
17	346	359	361	344	204	276	355					
18	345	345	312	341	215	285	---					
19	330	353	---	280	222	296	---					
20	333	363	325	316	239	299	---					
21	334	336	---	244	259	320	---					
22	333	323	---	288	248	311	---					
23	345	302	---	300	248	316	---					
24	343	345	334	324	246	323	---					
25	344	337	335	331	250	340	---					
26	331	308	374	266	247	339	---					
27	330	322	372	277	260	318	---					
28	338	308	311	309	244	320	---					
29	365	312	374	304	---	321	---					
30	345	320	383	295	---	322	---					
31	335	---	380	317	---	311	---					
MAX	391	363	383	369	331	340	---					
MIN	330	302	271	244	204	240	---					

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.5	18.0	12.0	---	9.0	14.0	14.5					
2	21.0	17.0	11.0	7.0	9.5	13.0	14.5					
3	22.0	16.0	10.0	5.0	10.0	12.0	14.0					
4	22.0	17.0	10.0	6.0	9.0	13.0	15.0					
5	21.5	18.0	10.0	5.5	8.0	12.0	15.0					
6	21.5	18.0	10.0	6.0	9.0	12.0	15.0					
7	24.0	18.0	11.0	7.0	10.0	12.0	14.0					
8	21.0	18.0	9.0	7.0	10.0	12.5	13.0					
9	22.0	17.0	10.0	---	10.0	13.0	14.0					
10	22.0	16.5	12.0	8.0	11.0	13.5	15.0					
11	22.0	16.0	10.0	8.0	9.5	13.0	15.0					
12	21.0	16.0	8.5	7.0	11.0	13.5	14.0					
13	20.5	16.0	8.0	5.0	10.0	14.0	15.0					
14	22.0	17.0	---	5.0	11.0	15.0	15.0					
15	22.5	17.5	8.0	6.0	12.0	14.0	15.0					
16	22.0	15.0	6.0	8.0	11.0	13.5	15.0					
17	21.5	13.0	6.0	6.0	12.0	13.5	16.0					
18	20.5	15.0	6.0	9.0	12.0	13.0	---					
19	18.0	14.5	---	---	12.0	15.0	---					
20	17.0	14.5	5.0	8.0	12.0	14.0	---					
21	19.0	15.0	---	10.0	12.0	13.5	---					
22	18.0	15.5	---	8.0	12.0	14.0	---					
23	19.0	13.0	---	8.5	12.0	15.0	---					
24	18.5	13.0	1.5	9.0	11.0	15.0	---					
25	19.0	13.0	1.0	9.0	12.5	15.0	---					
26	18.0	13.5	3.0	10.0	12.5	14.0	---					
27	18.0	13.0	3.0	9.5	13.0	14.0	---					
28	19.0	13.0	3.5	9.5	13.0	15.0	---					
29	19.0	12.0	4.0	9.0	---	14.5	---					
30	17.0	12.0	5.0	9.0	---	14.5	---					
31	18.0	---	6.0	9.0	---	15.0	---					
MAX	24.0	18.0	12.0	10.0	13.0	15.0	---					
MIN	17.0	12.0	1.0	5.0	8.0	12.0	---					

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

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

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT		FEB	
01-10	205	01-10	173
11-20	199	11-20	139
21-31	198	21-28	141
NOV		MAR	
01-10	193	01-10	152
11-20	194	11-20	158
21-30	180	21-31	171
DEC		APR	
01-10	186	01-10	182
11-20	175	11-20	184
21-31	191		
JAN			
01-10	160		
11-20	187		
21-31	170		

LOWER MISSISSIPPI RIVER BASIN

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)

LOCATION.--Lat 30°17'00", long 91°13'21", T.9 S., R.12 E., Louisiana meridian, Iberville Parish, Hydrologic Unit 08070100, cross section of river, at west bank ferry landing at Plaquemine, and at mile 208.0.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT										
04...	1400	366	7.72	22.0	20	75	<1	7.6	25	0.6
NOV										
30...	0845	321	7.79	13.0	15	36	<1	10.4	12	1.7
DEC										
21...	0930	391	7.81	5.0	5	22	<1	12.2	28	2.9
JAN										
08...	1445	325	7.44	6.0	20	25	<1	12.6	34	4.0
FEB										
21...	0915	259	7.46	12.5	15	65	<1	10.2	30	2.9
MAR										
05...	1415	250	7.33	10.5	30	65	<1	9.8	24	2.2
APR										
17...	1515	348	7.77	15.0	15	--	<1	9.4	20	2.6
MAY										
08...	1000	323	7.71	20.0	15	--	<1	8.0	40	1.4
JUN										
26...	0945	319	7.64	28.0	15	--	<1	5.5	41	1.7
JUL										
17...	1330	392	7.45	29.0	10	80	<1	6.6	32	1.4
AUG										
16...	0930	463	7.71	27.5	5	90	<1	6.9	30	1.6
SEP										
17...	1545	494	7.41	31.0	5	32	<1	7.3	22	1.1

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT										
04...	2600	K64	130	35	10	96	44	5.5	167	0.01
NOV										
30...	4400	620	120	33	10	90	42	16	122	0.02
DEC										
21...	1400	280	140	36	12	117	42	24	57	0.01
JAN										
08...	2600	620	120	33	9.0	95	29	17	338	0.05
FEB										
21...	2600	K150	94	26	7.0	76	27	14	127	0.04
MAR										
05...	820	140	95	27	6.8	75	30	12	102	0.03
APR										
17...	1200	K70	130	35	10	100	39	22	110	0.03
MAY										
08...	700	K76	110	30	9.6	92	40	23	117	<0.01
JUN										
26...	340	100	130	35	10	102	30	12	170	0.02
JUL										
17...	1000	260	160	42	13	123	35	16	228	0.01
AUG										
16...	520	170	180	46	15	142	58	19	234	0.03
SEP										
17...	500	110	180	47	16	140	53	22	85	<0.01

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)
OCT										
04...	1.2	0.36	0.29	4	2	<10	<10	<1	--	<10
NOV										
30...	0.73	0.32	0.27	3	<1	<10	<10	<1	<1	<10
DEC										
21...	0.78	0.23	0.17	1	<1	<10	<10	<1	<1	<10
JAN										
08...	0.60	1.0	0.23	4	<1	<10	<10	3	<1	<10
FEB										
21...	1.1	0.56	0.27	3	<1	<10	<10	1	<1	<10
MAR										
05...	1.1	0.40	0.17	2	<1	<10	<10	<1	<1	10
APR										
17...	1.3	0.55	0.26	2	<1	<10	<10	<1	<1	<10
MAY										
08...	1.0	0.53	0.23	3	<1	<10	<10	2	<1	<10
JUN										
26...	1.8	0.60	0.31	3	<1	<10	<10	<1	<1	8
JUL										
17...	3.2	0.94	0.33	4	2	<10	<10	2	<1	8
AUG										
16...	2.5	1.1	0.32	5	2	<10	<10	1	<1	9
SEP										
17...	2.3	0.57	0.20	2	3	<10	<10	<1	<1	2

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)
OCT										
04...	<1	4	3	<25	7	<1	0.1	<0.1	7	2
NOV										
30...	<1	20	6	<25	7	<1	<0.1	<0.1	9	1
DEC										
21...	<1	6	2	30	7	<1	<0.1	<0.1	3	2
JAN										
08...	<1	11	8	60	1	<1	<0.1	0.1	8	2
FEB										
21...	2	9	4	<25	13	<1	<0.1	<0.1	8	2
MAR										
05...	<1	6	4	50	8	<1	<0.1	<0.1	8	1
APR										
17...	<1	8	4	30	6	<1	<0.1	<0.1	5	1
MAY										
08...	<1	16	14	400	8	<1	<0.1	<0.1	6	2
JUN										
26...	<1	8	3	<25	6	<1	<0.1	<0.1	5	<1
JUL										
17...	<1	15	5	<25	9	<1	0.4	<0.1	7	4
AUG										
16...	<1	16	6	<25	8	<1	<0.1	<0.1	8	3
SEP										
17...	<1	6	6	<25	4	<1	<0.1	<0.1	5	2

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT									
04...	<1	<1	1	20	<10	5.6	<0.01	5	2
NOV									
30...	<1	<1	1	30	10	4.6	<0.01	4	2
DEC									
21...	<1	<1	<1	20	10	3.9	<0.01	6	2
JAN									
08...	<1	<1	1	40	10	8.1	<0.01	<1	<1
FEB									
21...	<1	<1	<1	50	<10	5.0	<0.01	6	2
MAR									
05...	<1	<1	<1	30	<10	4.9	<0.01	9	4
APR									
17...	<1	<1	1	20	<10	5.5	<0.01	<1	2
MAY									
08...	<1	<1	<1	30	20	6.3	<0.01	1	2
JUN									
26...	<1	<1	1	30	<10	7.1	<0.01	4	<1
JUL									
17...	<1	<1	2	40	10	7.8	<0.01	5	<1
AUG									
16...	<1	<1	3	40	10	7.9	<0.01	4	<1
SEP									
17...	<1	<1	2	20	<10	5.1	<0.01	2	<1

< Actual value is known to be less than the value shown.

07374220 MISSISSIPPI RIVER AT UNION, LA (CE 01222)

LOCATION.--Lat 30°05'52", long 90°54'45", T.11 S., R.15 E., St. James Parish, Hydrologic Unit 08070100, cross section on downstream side of Sunshine Bridge on State Highway 3089, 0.7 mi northwest of Union, and at mile 167.5.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT 04...	1115	374	7.39	21.5	20	85	<1	7.7	29	0.9
NOV 29...	1215	334	7.83	12.0	20	39	<1	10	19	1.7
DEC 20...	1300	380	7.69	5.5	5	19	<1	12.2	27	2.8
JAN 09...	1000	335	7.50	6.5	20	35	<1	11.2	31	1.7
FEB 21...	1200	258	7.40	12.5	20	65	<1	9.6	29	2.6
MAR 06...	1030	255	7.51	11.0	20	60	<1	10.6	38	2.1
APR 18...	1045	350	7.81	15.0	15	--	<1	9.1	18	2.4
MAY 08...	1215	329	7.67	20.0	20	--	<1	8.3	47	1.8
JUN 26...	1200	319	7.44	27.5	10	--	<1	6.1	36	1.4
JUL 18...	1130	390	7.60	28.0	5	80	<1	6.4	38	0.3
AUG 20...	1000	408	7.64	29.0	5	85	<1	7.1	27	1.5
SEP 18...	1100	455	7.54	31.0	5	32	<1	7.3	20	1.2

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT 04...	1600	250	130	35	10	100	43	26	168	0.01
NOV 29...	2600	450	130	34	10	100	42	16	100	0.01
DEC 20...	1300	K190	140	36	12	110	44	24	45	0.01
JAN 09...	1700	620	120	33	9.0	102	31	20	305	0.02
FEB 21...	1300	K260	94	26	7.0	76	27	15	150	0.04
MAR 06...	1200	96	98	28	6.8	79	30	13	112	0.03
APR 18...	440	96	130	35	10	103	41	25	116	0.03
MAY 08...	370	170	120	32	9.6	92	43	25	114	<0.01
JUN 26...	280	80	120	34	9.5	100	32	13	160	0.01
JUL 18...	K350	110	160	42	13	120	43	19	229	0.02
AUG 20...	400	150	170	43	14	128	41	21	207	0.02
SEP 18...	340	100	180	46	16	139	49	23	94	<0.01

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

LOWER MISSISSIPPI RIVER BASIN

07374220 MISSISSIPPI RIVER AT UNION, LA (CE 01222)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)
OCT										
04...	1.2	0.39	0.31	3	1	<10	<10	<1	<1	<10
NOV										
29...	0.69	0.30	0.26	3	1	<10	<10	<1	<1	<10
DEC										
20...	0.82	0.29	0.15	1	<1	<10	<10	<1	<1	<10
JAN										
09...	0.60	0.46	0.31	4	<1	<10	<10	<1	<1	<10
FEB										
21...	1.1	0.38	0.33	3	<1	<10	<10	<1	<1	<10
MAR										
06...	1.0	0.27	0.20	2	<1	<10	<10	<1	<1	<10
APR										
18...	1.4	0.30	0.20	2	<1	<10	<10	<1	<1	10
MAY										
08...	1.1	0.51	0.29	3	<1	<10	<10	<1	<1	<10
JUN										
26...	1.7	0.58	0.25	1	1	<10	<10	<1	<1	8
JUL										
18...	3.2	0.71	0.32	4	2	<10	<10	<1	<1	8
AUG										
20...	3.0	0.60	0.29	5	2	<10	<10	1	<1	7
SEP										
18...	2.4	0.60	0.20	3	2	<10	<10	1	<1	6

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)
OCT										
04...	<1	5	3	<25	8	<1	0.1	0.1	8	1
NOV										
29...	<1	20	5	<25	6	<1	<0.1	<0.1	6	<1
DEC										
20...	<1	5	2	<25	6	<1	<0.1	<0.1	3	2
JAN										
09...	<1	11	8	40	2	<1	<0.1	<0.1	7	2
FEB										
21...	<1	10	7	100	14	<1	<0.1	<0.1	8	4
MAR										
06...	<1	20	4	30	5	<1	<0.1	<0.1	7	<1
APR										
18...	<1	43	4	<25	14	<1	<0.1	--	6	1
MAY										
08...	<1	14	4	30	7	<1	<0.1	<0.1	7	2
JUN										
26...	<1	9	5	<25	5	<1	<0.1	<0.1	5	1
JUL										
18...	<1	13	4	<25	10	<1	<0.1	<0.1	7	1
AUG										
20...	<1	12	6	<25	7	<1	0.1	<0.1	7	3
SEP										
18...	<1	7	5	<25	4	<1	<0.1	<0.1	6	2

< Actual value is known to be less than the value shown.

07374220 MISSISSIPPI RIVER AT UNION, LA (CE 01222)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT									
04...	<1	<1	1	30	<10	5.9	<0.01	4	2
NOV									
29...	<1	<1	<1	20	<10	5.2	<0.01	<1	2
DEC									
20...	<1	<1	<1	20	10	3.8	<0.01	11	1
JAN									
09...	<1	<1	1	30	10	6.9	<0.01	<1	3
FEB									
21...	<1	<1	<1	50	10	5.7	<0.01	5	<1
MAR									
06...	<1	<1	<1	30	10	3.1	<0.02	<1	2
APR									
18...	<1	<1	1	40	<10	5.5	<0.01	<1	<1
MAY									
08...	<1	<1	<1	30	<10	5.5	--	<1	8
JUN									
26...	<1	<1	1	30	10	7.5	<0.01	2	<1
JUL									
18...	<1	<1	2	30	<10	7.4	<0.01	3	<1
AUG									
20...	<1	<1	3	30	10	7.6	<0.01	8	<1
SEP									
18...	<1	<1	2	20	<10	5.0	<0.01	<1	2

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374400 MISSISSIPPI RIVER AT LULING, LA (CE 01290)

LOCATION.--Lat 29°56'19", long 90°21'49", T.13 S., R.21 E., St. Charles Parish, Hydrologic Unit 08090100, cross section of river at Luling-Destrehan ferry crossing, 17 mi west of New Orleans, and at mile 120.6.

DRAINAGE AREA.--1,125,800 mi², arbitrarily determined.

PERIOD OF RECORD.--Water years 1958 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1957 to September 1972, October 1974 to September 1975, October 1976 to April 19, 1990 (discontinued).

WATER TEMPERATURES: October 1957 to September 1972, October 1977 to April 19, 1990 (discontinued).

CHLORIDE: October 1974 to September 1975, October 1976 to April 19, 1990 (discontinued).

SULFATE: October 1974 to September 1975, October 1976 to September 1978.

DISSOLVED SOLIDS: October 1978 to April 19, 1990 (discontinued).

REMARKS.--Extremes for current year for specific conductances, water temperatures, chlorides, and dissolved solids are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 636 micromhos Oct. 12, 1959; minimum daily, 194 micromhos Dec. 18, 1983.

WATER TEMPERATURES: Maximum daily, 38.5°C July 6, 7, 13, 1984; minimum daily, 2.0°C Jan. 14, 15, 1984.

CHLORIDE: Maximum daily, 69 mg/L June 24, 1977; minimum daily, 11 mg/L Mar. 22, 1975, June 12, 1983, Mar. 7-10, 12-16, 1989.

SULFATE: Maximum daily, 89 mg/L Oct. 10, 1977; minimum daily, 20 mg/L Feb. 8, Apr. 26, 1978.

DISSOLVED SOLIDS: Maximum, 339 mg/L Nov. 21-30, 1978; minimum, 151 mg/L Mar. 11-20, 1989, Feb. 11-20, 1990.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

CHLORIDE: Minimum, 8.3 mg/L Dec. 20, 1988.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL, (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. PER (COLS./ 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT												
03...	1200	381	7.33	22.5	20	10	<1	7.8	1.3	24	3200	130
NOV												
28...	1145	376	7.81	14.0	15	21	<1	9.8	1.4	12	1100	130
DEC												
20...	1100	392	7.76	6.5	5	16	<1	11.6	2.0	27	2000	160
JAN												
09...	1230	368	7.67	5.5	10	13	<1	13.0	3.5	21	1300	400
FEB												
21...	1415	260	7.46	14.0	20	75	<1	10.0	2.6	31	1200	210
MAR												
06...	1315	255	7.47	11.0	30	65	<1	10.2	2.0	48	1300	130
APR												
18...	1330	351	7.70	15.0	15	--	<1	8.7	1.8	26	1000	120
MAY												
08...	1445	354	7.78	19.5	20	--	<1	8.3	1.8	45	580	K56
JUN												
26...	1400	320	7.45	27.5	20	--	<1	5.9	0.6	34	450	72
JUL												
18...	1600	393	7.55	29.0	10	80	<1	6.0	0.5	32	160	100
AUG												
20...	1230	407	7.66	29.0	5	90	<1	7.2	1.9	30	240	100
SEP												
18...	1430	444	7.58	31.5	5	24	<1	7.1	1.3	19	400	K72

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07374400 MISSISSIPPI RIVER AT LULING, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 03...	130	35	10	110	42	26	187	0.02	1.4	0.47
NOV 28...	130	35	11	101	48	22	36	0.01	0.71	0.34
DEC 20...	140	36	12	115	39	25	32	0.01	0.83	0.30
JAN 09...	140	38	10	120	34	18	108	0.01	0.60	0.49
FEB 21...	90	25	6.7	80	24	14	183	0.04	0.96	0.33
MAR 06...	100	29	7.1	77	33	13	125	0.03	1.1	0.23
APR 18...	130	35	9.9	102	38	25	114	0.03	1.4	0.35
MAY 08...	120	31	9.6	96	43	26	112	<0.01	1.1	0.30
JUN 26...	120	34	9.5	101	31	13	--	0.02	1.7	0.47
JUL 18...	160	42	13	124	45	20	235	0.02	3.2	0.73
AUG 20...	170	43	14	139	45	21	229	0.01	2.9	0.57
SEP 18...	180	46	16	137	49	24	66	<0.01	2.3	0.76

DATE	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)
OCT 03...	0.33	4	1	<10	<10	<1	<1	10	5	6	3
NOV 28...	0.16	2	1	<10	<10	<1	<1	<10	<1	5	2
DEC 20...	0.12	1	<1	<10	<10	<1	<1	<10	<1	7	4
JAN 09...	0.18	3	<1	<10	<10	<1	<1	<10	<1	6	4
FEB 21...	0.37	3	<1	<10	<10	<1	<1	<10	<1	10	4
MAR 06...	0.23	3	<1	<10	<10	<1	<1	<10	<1	6	3
APR 18...	0.22	3	<1	<10	<10	<1	<1	<10	<1	18	5
MAY 08...	0.24	2	<1	<10	<10	1	<1	<10	<1	12	4
JUN 26...	0.25	4	1	<10	<10	<1	<1	6	<1	9	4
JUL 18...	0.35	4	2	<10	<10	<1	<1	7	<1	11	4
AUG 20...	0.34	4	2	<10	<10	<1	<1	12	<1	17	5
SEP 18...	0.18	3	2	<10	<10	1	<1	2	<1	10	9

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374400 MISSISSIPPI RIVER AT LULING, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY DIS- SOLVED (µG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)
OCT 03...	<25	9	<1	<0.1	<0.1	10	2	<1	<1	4	30
NOV 28...	<25	6	<1	<0.1	<0.1	4	<1	<1	<1	<1	20
DEC 20...	<25	5	<1	<0.1	<0.1	2	2	<1	<1	<1	20
JAN 09...	<25	2	<1	<0.1	<0.1	4	1	<1	<1	1	20
FEB 21...	<25	16	<1	<0.1	<0.1	9	2	<1	<1	<1	40
MAR 06...	40	9	<1	<0.1	<0.1	8	1	<1	<1	<1	30
APR 18...	<25	8	<1	<0.1	<0.1	6	2	<1	<1	1	20
MAY 08...	30	7	<1	<0.1	<0.1	6	1	<1	<1	<1	30
JUN 26...	<25	6	<1	<0.1	<0.1	6	1	<1	<1	1	30
JUL 18...	<25	7	<1	<0.1	<0.1	5	1	<1	<1	2	30
AUG 20...	<25	8	<1	<0.1	0.1	14	12	<1	<1	3	40
SEP 18...	<25	10	<1	<0.1	<0.1	6	3	<1	<1	2	70

DATE	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 03...	<10	7.3	<0.01	8	1
NOV 28...	<10	4.2	<0.01	7	3
DEC 20...	10	3.8	<0.01	2	2
JAN 09...	10	4.6	<0.01	<1	2
FEB 21...	<10	6.1	<0.01	4	2
MAR 06...	<10	3.0	<0.02	<1	2
APR 18...	<10	5.3	<0.01	<1	<1
MAY 08...	<10	6.0	<0.01	<1	2
JUN 26...	<10	7.5	<0.01	4	<1
JUL 18...	<10	7.6	<0.01	7	<1
AUG 20...	10	8.5	<0.01	2	<1
SEP 18...	20	4.7	<0.01	3	1

		ARSENIC TOTAL IN BOT- TOM MA- TERIAL (µG/G AS AS)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (µG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (µG/G)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (µG/G AS CU)	IRON, RECOV. FM BOT- TOM MA- TERIAL (µG/G AS FE)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (µG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (µG/G)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (µG/G AS HG)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (µG/G AS ZN)		
APR 18...		4	<1	4	2	3000	<10	49	0.01	20		
DATE	ACE- NAPHTH- YLENE BOT.MAT (µG/KG)	ACE- NAPHTH- ENE BOT.MAT (µG/KG)	BENZO B FLUOR- AN- THENE BOT.MAT (µG/KG)	BENZO K FLUOR- AN- THENE BOT.MAT (µG/KG)	BENZO- A- PYRENE BOT.MAT (µG/KG)	BIS (2- CHLORO- ETHYL) ETHER BOT.MAT (µG/KG)	BIS (2- CHLORO- ETHOXY) METHANE BOT.MAT (µG/KG)	BIS (2- CHLORO- ISO- PROPYL) ETHER BOT.MAT (µG/KG)	N-BUTYL BENZYL PHTHAL- ATE BOT.MAT (µG/KG)	CHRY- SENE BOT.MAT (µG/KG)	DIETHYL PHTHAL- ATE BOT.MAT (µG/KG)	DI- METHYL PHTHAL- ATE BOT.MAT (µG/KG)
APR 18...	<250	<250	<500	<500	<500	<250	<250	<250	<250	<500	<250	<250

< Actual value is known to be less than the value shown.

07374400 MISSISSIPPI RIVER AT LULING, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	FLUOR-ANTHENE BOT. MAT (µG/KG)	FLUOR-ENE BOT. MAT (µG/KG)	HEXA-CHLORO-CYCLO-PENT-ADIENE BOT. MAT (µG/KG)	HEXA-CHLORO-ETHANE BOT. MAT (µG/KG)	INDENO (1,2,3-CD) PYRENE BOT. MAT (µG/KG)	ISO-PHORONE BOT. MAT (µG/KG)	N-NITRO-SODI-N-PROPYL-AMINE BOT. MAT (µG/KG)	N-NITRO-SODI-PHENYL-LAMINE BOT. MAT (µG/KG)	NAPHTH-ALENE BOT. MAT (µG/KG)	NITRO-BENZENE BOT. MAT (µG/KG)	PARA-CHLORO-META-CRESOL BOT. MAT (µG/KG)	PHENAN-THRENE BOT. MAT (µG/KG)
APR 18...	<250	<250	<250	<250	<500	<250	<250	<250	<250	<250	<1500	<250
DATE	PYRENE BOT. MAT (µG/KG)	BENZOGH I PERYL ENE1,12-BENZOP ERYLENE BOT. MAT (µG/KG)	BENZO A ANTHRAC ENE1,2-BENZANT HRACENE BOT. MAT (µG/KG)	1,2-DI-CHLORO-BENZENE BOT. MAT (µG/KG)	1,2,4-TRI-CHLORO-BENZENE BOT. MAT (µG/KG)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT. MAT (µG/KG)	1,3-DI-CHLORO-BENZENE BOT. MAT (µG/KG)	1,4-DI-CHLORO-BENZENE BOT. MAT (µG/KG)	2-CHLORO-NAPH-THALENE BOT. MAT (µG/KG)	2-CHLORO-PHENOL BOT. MAT (µG/KG)	2-NITRO-PHENOL BOT. MAT (µG/KG)	DI-N-OCTYL PHTHAL-ATE BOT. MAT (µG/KG)
APR 18...	<250	<500	<250	<250	<250	<500	<250	<250	<250	<250	<250	<500
DATE	2,4-DI-CHLORO-PHENOL BOT. MAT (µG/KG)	2,4-DP, IN BOTTOM BOT. MAT (µG/KG)	2,4-DI-NITRO-TOLUENE BOT. MAT (µG/KG)	2,4-DI-NITRO-PHENOL BOT. MAT (µG/KG)	2,4,6-TRI-CHLORO-PHENOL BOT. MAT (µG/KG)	2,6-DI-NITRO-TOLUENE BOT. MAT (µG/KG)	3,3'-DI-CHLORO-BENZI-DINE BOT. MAT (µG/KG)	4-BROMO-PHENYL ETHER BOT. MAT (µG/KG)	4-CHLORO-PHENYL ETHER BOT. MAT (µG/KG)	4-NITRO-PHENOL BOT. MAT (µG/KG)	4,6-DINITRO-ORTHO-CRESOL BOT. MAT (µG/KG)	PHENOL (C6H-5OH) BOT. MAT (µG/KG)
APR 18...	<250	<250	<250	<1000	<1000	<250	<1200	<250	<250	<1500	<1500	<250
DATE	PENTA-CHLORO-PHENOL BOT. MAT (µG/KG)	BIS(2-ETHYL HEXYL) PHTHAL-ATE BOT. MAT (µG/KG)	DI-N-BUTYL PHTHAL-ATE BOT. MAT (µG/KG)	BENZI-DINE BOT. MAT (µG/KG)	PCB, TOTAL BOT. MAT (µG/L)	PCB, TOTAL BOT. MAT (µG/KG)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (µG/L)	PCN, TOTAL BOT. MAT (µG/KG)	ALDRIN, TOTAL BOT. MAT (µG/L)	ALDRIN, TOTAL BOT. MAT (µG/KG)	CHLOR-DANE, TOTAL BOT. MAT (µG/L)	CHLOR-DANE, TOTAL BOT. MAT (µG/KG)
APR 18...	<1500	<250	<250	<2500	<0.1	<100	<0.1	<100	<0.01	<10	<0.01	<10
DATE	DDD, TOTAL (µG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	DDE, TOTAL (µG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	DDT, TOTAL (µG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	DI-AZINON, TOTAL (µG/L)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	DI-ELDRIN, TOTAL (µG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	ENDO-SULFAN, TOTAL (µG/L)	
APR 18...	<0.01	<10	<0.01	<10	<0.01	<10	0.03	<10	<0.01	<10	<0.01	<0.01
DATE	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	ENDRIN, TOTAL (µG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	ETHION, TOTAL (µG/L)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	HEPTA-CHLOR, TOTAL (µG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (µG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (µG/L)	LINDANE, TOTAL IN BOT-TOM MA-TERIAL (µG/L)	LINDANE, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)
APR 18...	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<10
DATE	MALA-THION, TOTAL (µG/L)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	METH-OXY-CHLOR, TOTAL (µG/L)	METH-OXY-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	METHYL-PARA-THION, TOTAL (µG/L)	METHYL-PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	METHYL-THION, TOTAL (µG/L)	METHYL-THION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	MIREX, TOTAL (µG/L)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	PARA-THION, TOTAL (µG/L)	
APR 18...	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<0.01
DATE	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	PER-THANE, TOTAL (µG/L)	PER-THANE, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	TOX-APHENE, TOTAL (µG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	TOTAL TRI-THION (µG/L)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	2,4-D, TOTAL (µG/L)	2,4-DP, TOTAL (µG/L)	2,4,5-T, TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	
APR 18...	<10	<0.01	<10	<0.5	<500	<0.01	<10	<0.1	<0.1	<0.1	<0.1	<0.1

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374400 MISSISSIPPI RIVER AT LULING, LA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25 °C, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	368	381	376	356	265	268	339					
2	359	380	378	355	264	272	345					
3	381	380	379	355	253	265	349					
4	415	378	378	355	337	278	349					
5	415	375	379	359	345	272	343					
6	414	383	377	344	351	---	345					
7	414	388	378	352	349	297	349					
8	415	394	372	358	332	296	351					
9	415	398	365	356	343	292	350					
10	417	395	366	359	262	313	348					
11	414	390	368	360	264	310	352					
12	415	403	364	360	264	311	343					
13	413	405	364	361	249	308	355					
14	380	405	374	353	263	315	373					
15	386	406	405	355	264	288	384					
16	382	404	406	354	262	313	---					
17	374	407	405	389	263	310	356					
18	364	404	406	378	283	314	372					
19	374	401	406	377	287	306	369					
20	376	404	406	372	288	307	---					
21	388	406	406	343	288	328	---					
22	388	402	377	342	288	338	---					
23	382	402	407	355	290	347	---					
24	397	363	404	342	293	342	---					
25	392	405	406	331	297	328	---					
26	389	367	403	331	289	344	---					
27	370	354	405	275	288	343	---					
28	389	374	405	339	---	349	---					
29	388	365	381	341	---	337	---					
30	389	363	386	338	---	346	---					
31	388	---	---	349	---	330	---					
MAX	417	407	407	389	351	349	---					
MIN	359	354	364	275	249	265	---					

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	19.5	13.0	5.0	9.0	12.0	16.0					
2	22.5	17.5	13.0	5.0	8.5	10.5	16.0					
3	23.0	18.0	11.5	5.0	9.0	12.5	15.5					
4	24.5	18.0	12.5	5.0	8.5	10.5	15.5					
5	23.5	16.5	13.5	5.0	8.5	13.0	15.0					
6	25.5	17.5	13.5	6.5	9.0	---	15.0					
7	23.0	19.5	12.5	6.0	9.5	13.0	10.5					
8	24.5	17.5	13.0	9.0	9.5	13.5	14.5					
9	22.5	17.5	12.0	7.5	10.0	13.0	15.0					
10	24.0	18.0	9.5	8.0	9.5	14.5	14.5					
11	23.5	18.5	10.5	9.5	9.5	13.0	15.0					
12	22.0	18.0	8.5	7.5	10.0	13.5	15.0					
13	22.0	18.0	9.0	7.0	9.5	15.5	16.5					
14	18.5	16.5	9.5	5.0	8.5	14.0	17.0					
15	22.0	15.5	6.5	6.5	10.0	15.5	16.5					
16	21.5	16.0	7.5	7.0	10.5	16.0	---					
17	21.5	16.0	5.5	6.5	10.0	16.5	17.0					
18	21.5	17.5	5.5	7.5	11.5	15.5	16.5					
19	19.5	18.5	5.0	7.5	11.5	15.0	16.0					
20	20.0	17.0	6.0	8.5	11.5	14.5	---					
21	19.5	15.5	6.5	8.5	12.0	15.0	---					
22	21.0	15.0	7.5	9.0	12.5	15.0	---					
23	20.5	15.5	8.0	8.5	10.0	15.0	---					
24	20.0	15.0	7.5	9.5	10.5	16.0	---					
25	20.5	14.0	7.0	9.0	11.5	16.0	---					
26	20.0	14.0	5.0	9.0	12.5	15.5	---					
27	19.0	14.5	5.0	9.5	12.0	16.0	---					
28	17.5	12.5	5.0	9.0	---	16.0	---					
29	19.5	13.0	5.0	9.5	---	15.5	---					
30	18.5	10.0	5.0	9.5	---	15.5	---					
31	18.0	---	---	10.0	---	15.0	---					
MAX	25.5	19.5	13.5	10.0	12.5	16.5	---					
MIN	17.5	10.0	5.0	5.0	8.5	10.5	---					

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

LOWER MISSISSIPPI RIVER BASIN

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07374400 MISSISSIPPI RIVER AT LULING, LA--Continued

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

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

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)		SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
DATE		DATE	
OCT		FEB	
01-10	226	01-10	175
11-20	222	11-20	151
21-31	224	21-28	156
NOV		MAR	
01-10	221	01-10	158
11-20	236	11-20	160
21-30	222	21-31	186
DEC		APR	
01-10	214	01-10	196
11-20	221	11-20	235
21-31	219		
JAN			
01-10	207		
11-20	208		
21-31	189		

LOWER MISSISSIPPI RIVER BASIN

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 29°51'25", long 89°58'40", in lot 20, T.14 S., R.12 E., Plaquemines Parish, Hydrologic Unit 08090100, at ferry crossing at Belle Chasse and at mile 76.0.

DRAINAGE AREA.--1,125,930 mi², arbitrarily determined.

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to May 9, 1990 (discontinued).

WATER TEMPERATURES: October 1975 to May 9, 1990 (discontinued).

CHLORIDE: October 1974 to May 9, 1990 (discontinued).

SULFATE: October 1974 to September 1978.

DISSOLVED SOLIDS: October 1978 to May 9, 1990 (discontinued).

REMARKS.--Extremes for current year for specific conductances, water temperatures, chlorides, and dissolved solids are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A temperature of 1.5 °C was observed on Feb. 9, 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 692 microsiemens Jan. 31, 1981; minimum daily, 223 microsiemens Mar. 7, 1989.

WATER TEMPERATURES: Maximum daily, 38.0 °C June 9, 1984; minimum daily, 2.0 °C Feb. 7, 1984.

CHLORIDE: Maximum daily, 85 mg/L June 26, 27, 1977; minimum daily, 11 mg/L Apr. 21, May 12, 1975, May 12, 1984, Mar. 7, 1989.

SULFATE: Maximum daily, 93 mg/L Oct. 30, 1976; minimum daily, 28 mg/L Feb. 3, 1975.

DISSOLVED SOLIDS: Maximum, 415 mg/L Nov. 1-10, 1988; minimum, 145 mg/L Feb. 21-28, 1989, Mar. 1-10, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT									
02...	1745	409	7.90	22.0	30	140	7.1	1.1	280
DEC									
19...	1030	390	7.73	10.5	5	14	11.3	2.4	540
FEB									
22...	1240	260	7.42	11.5	10	82	9.8	2.7	200
APR									
19...	0915	357	7.80	15.0	15	46	8.9	1.8	210
JUN									
27...	1030	324	7.80	27.5	5	67	5.4	1.0	K250
AUG									
20...	1530	452	7.73	30.0	10	90	6.7	1.5	180

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT												
02...	330	140	37	11	28	6.5	112	42	36	0.3	6.5	245
DEC												
19...	--	140	37	11	24	2.7	100	42	29	0.3	6.1	224
FEB												
22...	1600	98	27	7.4	11	2.5	73	29	11	0.2	6.1	158
APR												
19...	360	140	37	11	19	3.1	105	41	26	0.2	6.0	196
JUN												
27...	200	130	35	9.7	13	3.2	101	29	14	0.2	6.6	186
AUG												
20...	150	180	47	15	25	3.3	144	50	28	0.5	8.1	275

K Results based on colony count outside the acceptable range (non-ideal colony count).

LOWER MISSISSIPPI RIVER BASIN

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07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 02...	232	<0.01	1.1	0.03	0.02	0.7	0.26	0.07	0.08
DEC 19...	217	0.01	0.88	0.08	0.07	0.5	0.07	0.04	0.05
FEB 22...	141	0.05	1.1	0.05	0.04	0.6	0.14	0.05	0.06
APR 19...	209	0.02	1.2	0.06	0.01	1.2	0.15	0.06	0.05
JUN 27...	177	<0.01	1.6	0.08	0.02	0.7	0.14	0.08	0.06
AUG 20...	268	<0.01	2.5	0.08	0.03	1.0	0.32	0.12	0.10

DATE	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)
OCT 02...	<10	2	59	<0.5	<1	<1	<3	1	13	<1	7
FEB 22...	50	1	42	<0.5	<1	<1	<3	1	42	1	5
APR 19...	20	1	56	<0.5	<1	1	<3	3	25	1	7
AUG 20...	10	2	74	<0.5	<1	2	<3	9	8	3	10

DATE	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)
OCT 02...	1	0.1	<10	<1	<1	<1	200	<6	4
FEB 22...	25	<0.1	<10	3	<1	<1	120	<6	31
APR 19...	1	<0.1	<10	2	<1	<1	150	<6	<3
AUG 20...	2	<0.1	<10	4	<1	<1	190	<6	8

DATE	GROSS ALPHA, DIS- SOLVED (µG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (µG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (µG/L AS U)
OCT 02...	1.4	8.9	5.3	7.6	4.6	6.2	0.11	0.89
APR 19...	0.92	4.7	3.8	3.6	2.9	2.8	0.26	--

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 02...	410000	307	340000	99
NOV 27...	262000	--	--	--
DEC 19...	253000	21	143000	99
JAN 10...	315000	--	--	--
FEB 22...	1030000	325	904000	74
MAR 07...	1060000	--	--	--
APR 19...	694000	183	343000	72
MAY 09...	716000	--	--	--
JUN 27...	901000	223	542000	87
JUL 19...	439000	--	--	--
AUG 20...	361000	214	208000	100
SEP 19...	305000	--	--	--

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	497	365	442	351	263	363	363				
2	412	499	352	425	341	263	362	362				
3	400	387	353	426	342	260	335	---				
4	416	393	352	427	341	260	356	356				
5	390	389	367	406	329	257	362	362				
6	395	381	391	400	321	258	361	361				
7	381	370	466	409	313	261	370	370				
8	384	357	395	420	321	269	371	371				
9	390	---	393	404	351	290	368	368				
10	391	357	370	382	339	292	351					
11	387	377	371	363	344	291	351					
12	490	387	387	352	311	287	347					
13	387	405	377	343	302	286	339					
14	414	420	465	377	291	287	338					
15	417	420	371	358	284	---	338					
16	411	406	350	381	---	298	339					
17	410	390	383	365	267	302	340					
18	384	396	389	354	263	295	344					
19	461	396	364	368	255	294	364					
20	367	413	397	374	258	291	362					
21	361	---	410	371	264	296	369					
22	372	405	392	348	255	327	369					
23	369	427	392	358	267	330	378					
24	368	447	392	333	268	334	385					
25	380	239	398	327	273	336	383					
26	---	418	398	334	274	338	395					
27	492	407	410	323	270	338	390					
28	404	402	422	323	260	337	385					
29	---	384	437	319	---	345	388					
30	401	355	435	345	---	324	378					
31	412	---	429	351	---	320	---					
MAX	492	499	466	442	351	345	395					
MIN	361	239	350	319	255	257	335					

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.0	19.0	14.0	7.0	11.0	13.0	21.0	21.0				
2	23.0	20.0	14.0	8.0	10.0	13.0	21.0	21.0				
3	24.0	17.0	13.0	9.0	19.0	12.0	14.0	---				
4	24.0	18.0	15.0	18.0	13.0	12.0	21.0	21.0				
5	24.0	17.0	12.0	15.0	11.0	12.0	21.0	21.0				
6	25.0	18.0	13.0	15.0	13.0	13.0	20.0	20.0				
7	24.0	19.0	20.0	11.0	15.0	14.0	21.0	21.0				
8	23.0	19.0	13.0	10.0	13.0	15.0	21.0	21.0				
9	20.0	---	9.0	9.0	9.0	13.0	22.0	22.0				
10	21.0	16.0	10.0	11.0	10.0	12.0	16.0					
11	22.0	17.0	14.0	9.0	10.0	13.0	16.0					
12	22.0	18.0	10.0	9.0	9.0	14.0	16.0					
13	24.0	18.0	12.0	9.0	9.0	13.0	15.0					
14	22.0	20.0	10.0	9.0	10.0	18.0	16.0					
15	23.0	22.0	13.0	9.0	9.0	---	17.0					
16	24.0	22.0	9.0	10.0	---	15.0	16.0					
17	24.0	16.0	8.0	10.0	13.0	14.0	17.0					
18	20.0	---	9.0	9.0	13.0	13.0	18.0					
19	20.0	17.0	9.0	12.0	15.0	14.0	18.0					
20	18.0	16.0	11.0	13.0	14.0	13.0	16.0					
21	19.0	---	10.0	10.0	15.0	13.0	15.0					
22	20.0	18.0	9.0	11.0	16.0	13.0	17.0					
23	20.0	16.0	5.0	9.0	13.0	14.0	17.0					
24	19.0	15.0	6.0	11.0	---	15.0	16.0					
25	18.0	15.0	6.0	10.0	14.0	16.0	15.0					
26	---	18.0	6.0	11.0	14.0	13.0	16.0					
27	19.0	16.0	6.0	10.0	12.0	14.0	19.0					
28	20.0	20.0	7.0	9.0	15.0	13.0	19.0					
29	---	18.0	8.0	12.0	---	18.0	20.0					
30	18.0	12.0	7.0	11.0	---	16.0	20.0					
31	19.0	---	8.0	11.0	---	16.0	---					
MAX	25.0	22.0	20.0	18.0	19.0	18.0	22.0					
MIN	18.0	12.0	5.0	7.0	9.0	12.0	14.0					

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	32	23	32	29	15	22	26				
2	38	29	22	37	26	14	21	25				
3	35	23	20	37	27	14	23	---				
4	33	24	21	33	25	13	22	24				
5	31	25	21	25	23	13	22	23				
6	32	23	22	26	22	13	23	25				
7	32	24	28	30	20	12	24	27				
8	32	22	27	29	25	13	23	27				
9	30	---	30	25	30	17	23	25				
10	32	22	22	24	27	17	23					
11	31	26	24	20	32	16	23					
12	36	27	26	27	26	19	22					
13	30	32	30	21	21	17	23					
14	33	31	29	28	20	17	23					
15	34	32	26	22	18	---	23					
16	32	30	26	25	---	14	22					
17	32	31	25	22	18	22	22					
18	32	28	25	21	15	20	24					
19	34	30	28	22	15	20	25					
20	26	30	28	24	17	19	24					
21	26	---	31	24	16	21	24					
22	28	31	27	24	16	27	25					
23	31	32	24	26	17	27	26					
24	31	28	24	24	16	26	27					
25	32	15	25	22	17	27	26					
26	---	26	25	25	16	26	28					
27	38	28	28	28	16	26	26					
28	34	28	31	27	15	26	26					
29	---	23	32	31	---	26	26					
30	32	22	33	32	---	22	27					
31	30	---	32	32	---	22	---					
MAX	38	32	33	37	32	27	28					
MIN	26	15	20	20	15	12	21					

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

LOWER MISSISSIPPI RIVER BASIN

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT	
01-10	223
11-20	241
21-31	226
NOV	
01-10	227
11-20	225
21-30	219
DEC	
01-10	216
11-20	212
21-31	231
JAN	
01-10	238
11-20	201
21-31	187
FEB	
01-10	188
11-20	158
21-28	147
MAR	
01-10	145
11-20	157
21-31	179
APR	
01-10	203
11-20	192
21-30	216

LOWER MISSISSIPPI RIVER BASIN

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07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480)

LOCATION.--Lat 29°16'26", long 89°21'00", T.21 S., R.31 E., Plaquemines Parish, Hydrologic Unit 08090100, cross section of river at Venice and at mile 10.7.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT 02...	1200	430	7.25	22.5	20	50	<1	6.5	27	0.7
NOV 27...	1245	822	7.74	16.0	10	8.3	<1	8.7	45	0.5
DEC 18...	1330	1780	7.76	9.5	5	13	<1	10.8	39	1.4
JAN 11...	1115	1950	7.77	8.0	5	11	<1	12.0	38	2.1
FEB 23...	1045	260	7.36	14.0	20	100	<1	10.3	32	3.2
MAR 07...	1230	263	7.47	11.0	20	65	<1	9.6	100	1.6
APR 19...	1500	352	7.77	15.5	15	--	<1	8.8	26	1.7
MAY 09...	1245	366	7.88	21.0	15	--	<1	7.4	44	1.0
JUN 28...	1200	328	7.45	28.0	5	--	<1	5.2	34	0.9
JUL 19...	1200	394	7.68	29.5	5	85	<1	6.0	32	1.6
AUG 21...	1100	2560	7.83	28.5	5	27	<1	6.5	39	0.6
SEP 19...	1630	501	7.54	30.5	5	8.9	<1	6.9	15	1.6

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT 02...	2100	550	140	37	12	117	46	36	252	0.02
NOV 27...	400	220	190	41	21	113	69	150	--	0.01
DEC 18...	690	76	260	--	41	98	96	400	28	E0.02
JAN 11...	780	120	310	52	44	122	110	460	32	0.01
FEB 23...	2600	K450	97	27	7.2	75	27	15	246	0.04
MAR 07...	680	88	100	29	6.8	76	30	15	194	0.03
APR 19...	1200	K56	130	35	9.9	104	39	25	111	0.03
MAY 09...	780	80	120	33	9.6	87	44	27	115	<0.01
JUN 28...	320	160	130	36	10	101	30	14	184	0.01
JUL 19...	210	84	160	42	13	122	43	20	235	0.02
AUG 21...	180	84	360	54	54	142	150	600	70	0.01
SEP 19...	620	170	180	44	16	128	41	41	18	0.01

< Actual value is known to be less than the value shown.

E Estimated.

K Results based on colony count outside the acceptable range (non-ideal colony count).

LOWER MISSISSIPPI RIVER BASIN

07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)
OCT										
02...	1.4	0.45	0.38	5	2	<10	<10	<1	<1	10
NOV										
27...	0.80	0.28	0.13	2	1	<10	<10	<1	<1	<10
DEC										
18...	E0.86	E0.33	E0.09	1	<1	<10	<10	1	<1	<10
JAN										
11...	0.58	0.45	0.10	1	<1	<10	<10	<1	<1	<10
FEB										
23...	1.1	0.42	0.45	4	<1	<10	<10	<1	<1	<10
MAR										
07...	1.1	0.31	0.38	3	<1	<10	<10	<1	<1	<10
APR										
19...	1.4	0.77	0.24	2	<1	<10	<10	<1	<1	<10
MAY										
09...	1.1	0.29	0.25	2	<1	<10	<10	<1	<1	<10
JUN										
28...	1.6	0.55	0.27	4	1	<10	<10	<1	<1	6
JUL										
19...	3.2	0.57	0.36	4	2	<10	<10	<1	<1	7
AUG										
21...	2.6	1.1	0.19	3	2	<10	<10	<1	<1	4
SEP										
19...	1.9	0.32	0.13	2	2	<10	<10	<1	<1	2

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)
OCT										
02...	<1	6	5	<25	10	<1	<0.1	<0.1	9	5
NOV										
27...	1	9	5	<25	<1	<1	<0.1	<0.1	3	<1
DEC										
18...	<1	5	3	<25	4	<1	<0.1	<0.1	3	<1
JAN										
11...	<1	4	3	40	1	<1	<0.1	<0.1	3	2
FEB										
23...	<1	8	4	<25	12	<1	<0.1	<0.1	10	1
MAR										
07...	<1	9	4	<25	21	<1	<0.1	<0.1	10	<1
APR										
19...	<1	21	20	<25	10	<1	<0.1	<0.1	6	2
MAY										
09...	<1	11	3	40	6	<1	0.1	<0.1	6	<1
JUN										
28...	<1	10	3	<25	6	<1	<0.1	<0.1	6	1
JUL										
19...	<1	13	4	<25	7	<1	<0.1	<0.1	5	1
AUG										
21...	<1	12	7	<25	5	<1	<0.1	<0.1	4	1
SEP										
19...	<1	3	4	<25	1	<1	<0.1	<0.1	3	<1

< Actual value is known to be less than the value shown.
E Estimated.

LOWER MISSISSIPPI RIVER BASIN

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07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT									
02...	<1	<1	3	30	10	8.3	<0.01	4	2
NOV									
27...	<1	<1	3	20	10	4.2	<0.01	13	3
DEC									
18...	<1	<1	4	10	10	3.8	<0.01	56	2
JAN									
11...	<1	<1	6	20	20	3.7	<0.01	13	<1
FEB									
23...	<1	<1	<1	50	<10	6.0	0.04	6	2
MAR									
07...	<1	<1	<1	40	<10	2.9	<0.02	<1	<1
APR									
19...	<1	<1	1	30	20	5.5	<0.01	<1	1
MAY									
09...	<1	<1	<1	20	<10	5.8	<0.01	5	1
JUN									
28...	<1	<1	2	30	<10	7.7	<0.01	4	<1
JUL									
19...	<1	<1	2	40	<10	7.0	<0.01	7	<1
AUG									
21...	<1	<1	2	20	10	5.3	<0.01	7	5
SEP									
19...	<1	<1	2	10	<10	4.2	<0.01	1	<1

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07375000 TCHEFUNCTA RIVER NEAR FOLSOM, LA

LOCATION.--Lat 30°36'57", long 90°14'55", on line between SE 1/4 NE 1/4 and SW 1/4 NE 1/4 sec.13, T.5 S., R.9 E., St. Helena Meridian, Tangipahoa Parish, Hydrologic Unit 08090201, near center of span on downstream side of bridge on State Highway 40, 1.2 mi upstream from Bull Branch, and 3.6 mi southwest of Folsom.

DRAINAGE AREA.--95.5 mi², not including Bull Branch which has a drainage area of 7.5 mi² at State Highway 40. Total drainage area for extreme floods is 103 mi².

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 Chefunct River near Folsom.

REVISED RECORDS.--WSP 1057: 1944(M), 1945. WDR LA-83-2: 1948(M), 1953(M), 1961(M), 1962(M), 1973(M), 1977(M).

GAGE.--Water-stage recorder. Datum of gage is 62.11 ft above National Geodetic Vertical Datum of 1929. Prior to June 9, 1944, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--47 years, 161 ft³/s, 22.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,800 ft³/s, Apr. 5, 1983, gage height, 24.12 ft, from rating curve extended above 13,000 ft³/s by slope conveyance measurement at gage height 24.12 ft; minimum discharge, 26 ft³/s, Sept. 4, 15, 1968; minimum gage height, 4.75 ft, Oct. 4, 5, 6, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 26	0554	*3,490	*17.38	Feb. 23	0400	2,580	16.23
Feb. 11	1630	1,330	13.73	Mar. 3	0800	1,360	13.79
Feb. 17	0900	1,440	14.01	Mar. 16	1400	2,190	15.64
Feb. 19	1430	2,730	16.43	June 2	0145	3,330	17.19

Minimum discharge, 42 ft³/s, Aug. 17; minimum gage height, 5.18 ft, Aug. 28, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	46	95	1060	247	167	204	105	1380	58	49	47
2	69	52	87	631	206	588	141	94	2150	57	53	46
3	60	54	81	284	190	1260	128	88	757	57	53	45
4	56	51	76	260	350	749	119	84	293	58	50	46
5	54	49	74	700	522	327	108	82	155	61	49	47
6	52	49	74	832	352	227	102	81	120	63	50	57
7	51	71	240	647	311	190	99	78	101	61	55	50
8	52	316	840	979	289	167	95	77	92	58	58	45
9	52	379	908	918	291	159	92	119	97	55	51	45
10	51	176	504	433	539	178	93	246	84	54	48	44
11	49	100	227	245	1130	153	158	123	78	59	47	45
12	49	79	345	193	832	136	186	92	75	65	46	47
13	49	77	425	160	349	128	113	101	72	64	46	49
14	49	609	242	136	272	122	102	247	70	61	45	49
15	49	656	173	125	506	177	194	138	68	57	45	48
16	50	510	156	118	803	1650	233	105	67	54	44	47
17	50	517	134	113	1310	1660	124	90	66	54	43	46
18	50	201	121	143	945	816	104	84	64	54	44	45
19	51	130	120	307	2280	350	95	80	63	58	44	51
20	49	108	163	247	1670	222	91	77	62	54	48	47
21	49	95	138	424	761	175	89	77	62	53	116	44
22	49	92	116	779	1460	153	87	82	62	54	63	44
23	49	240	100	371	2060	140	108	91	72	57	51	46
24	48	324	89	229	840	130	100	79	116	53	48	54
25	48	154	86	867	376	123	88	75	83	52	47	45
26	48	120	88	2680	250	115	83	72	68	51	46	44
27	47	106	90	971	205	109	100	72	63	50	45	44
28	47	109	89	420	181	105	306	97	61	49	45	44
29	47	144	92	318	---	107	381	327	61	49	45	44
30	46	117	153	438	---	169	137	355	60	49	46	44
31	46	---	649	395	---	377	---	156	---	48	49	---
TOTAL	1608	5731	6775	16423	19527	11129	4060	3674	6622	1727	1569	1399
MEAN	51.9	191	219	530	697	359	135	119	221	55.7	50.6	46.6
MAX	92	656	908	2680	2280	1660	381	355	2150	65	116	57
MIN	46	46	74	113	181	105	83	72	60	48	43	44
CFSM	.50	1.85	2.12	5.14	6.77	3.49	1.31	1.15	2.14	.54	.49	.45
IN.	.58	2.07	2.45	5.93	7.05	4.02	1.47	1.33	2.39	.62	.57	.51
CAL YR 1989	TOTAL 52878		MEAN 145	MAX 2940	MIN 46	CFSM 1.52	IN. 20.60					
WTR YR 1990	TOTAL 80244		MEAN 220	MAX 2680	MIN 43	CFSM 2.30	IN. 31.26					

MISSISSIPPI RIVER DELTA

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07375000 TCHEFUNCTA RIVER NEAR FOLSOM, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.00	5.23	6.05	12.76	7.64	7.01	7.41	6.19	12.98	5.55	5.37	5.31
2	5.64	5.33	5.92	10.63	7.22	10.15	6.70	6.04	15.30	5.53	5.46	5.28
3	5.48	5.38	5.82	8.18	7.06	13.50	6.52	5.94	11.31	5.52	5.45	5.27
4	5.41	5.32	5.75	7.94	8.52	11.27	6.39	5.88	8.22	5.54	5.40	5.28
5	5.37	5.29	5.71	11.03	9.86	8.55	6.23	5.85	6.88	5.60	5.38	5.29
6	5.34	5.28	5.72	11.79	8.55	7.65	6.15	5.83	6.45	5.62	5.39	5.48
7	5.32	5.63	7.58	10.77	8.22	7.27	6.10	5.78	6.20	5.59	5.48	5.36
8	5.34	8.41	11.78	12.45	8.04	7.02	6.04	5.76	6.08	5.54	5.55	5.26
9	5.33	8.97	12.14	12.16	8.05	6.93	5.99	6.36	6.14	5.50	5.42	5.25
10	5.31	7.08	9.81	9.33	9.92	7.14	6.02	7.84	5.96	5.48	5.36	5.24
11	5.28	6.11	7.65	7.83	12.99	6.85	6.86	6.44	5.88	5.55	5.34	5.24
12	5.27	5.79	8.68	7.29	11.63	6.64	7.20	6.00	5.82	5.67	5.32	5.28
13	5.28	5.75	9.31	6.93	8.53	6.52	6.31	6.12	5.78	5.65	5.31	5.32
14	5.27	10.49	7.79	6.64	7.87	6.44	6.15	7.85	5.75	5.59	5.30	5.32
15	5.28	10.82	7.08	6.48	9.73	7.10	7.25	6.65	5.72	5.53	5.29	5.30
16	5.30	9.90	6.89	6.39	11.57	14.15	7.68	6.19	5.70	5.48	5.28	5.28
17	5.30	9.94	6.62	6.31	13.65	14.50	6.46	5.97	5.68	5.47	5.27	5.25
18	5.31	7.37	6.43	6.68	12.27	11.61	6.18	5.88	5.65	5.47	5.27	5.23
19	5.32	6.55	6.40	8.40	15.62	8.72	6.05	5.81	5.63	5.54	5.26	5.36
20	5.28	6.23	6.96	7.85	14.48	7.60	5.99	5.77	5.62	5.48	5.35	5.27
21	5.27	6.04	6.67	9.22	11.36	7.11	5.95	5.76	5.61	5.46	6.39	5.21
22	5.28	6.00	6.35	11.50	13.66	6.85	5.93	5.85	5.61	5.48	5.61	5.21
23	5.28	7.69	6.12	8.87	15.29	6.70	6.24	5.99	5.77	5.53	5.39	5.25
24	5.26	8.50	5.96	7.67	11.71	6.56	6.12	5.80	6.40	5.46	5.34	5.40
25	5.27	6.85	5.90	11.13	8.93	6.45	5.93	5.72	5.94	5.44	5.32	5.23
26	5.25	6.40	5.93	16.25	7.89	6.34	5.86	5.69	5.71	5.43	5.30	5.21
27	5.24	6.21	5.97	12.26	7.43	6.25	6.11	5.68	5.64	5.40	5.28	5.21
28	5.24	6.25	5.95	9.08	7.17	6.19	8.34	6.06	5.61	5.38	5.27	5.20
29	5.24	6.75	6.00	8.29	---	6.22	8.94	8.49	5.59	5.38	5.27	5.19
30	5.23	6.37	6.83	9.24	---	6.99	6.64	8.69	5.58	5.38	5.28	5.19
31	5.23	---	10.38	8.89	---	8.95	---	6.80	---	5.36	5.34	---
MAX	6.00	10.82	12.14	16.25	15.62	14.50	8.94	8.69	15.30	5.67	6.39	5.48
MIN	5.23	5.23	5.71	6.31	7.06	6.19	5.86	5.68	5.58	5.36	5.26	5.19

MISSISSIPPI RIVER DELTA

07375050 TCHEFUNCTA RIVER NEAR COVINGTON, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°29'40", long 90°10'10", in SW 1/4 sec.26, T.6 S., R.10 E., St. Helena Meridian, St. Tammany Parish, Hydrologic Unit 08090201, at bridge on U.S. Highway 190, and 4.0 mi west of Covington.

DRAINAGE AREA.--145 mi².

PERIOD OF RECORD.--Water years 1959, 1966-68, 1974, 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1978 to September 1982.

WATER TEMPERATURES: April 1978 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 66 micromhos Feb. 24, 1979; minimum daily, 20 micromhos, Apr. 14, May 17, 18, 22, 1980.

WATER TEMPERATURES: Maximum daily, 34.0 °C July 25, 1980; minimum daily, 4.0 °C Jan. 11, 12, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 20...	1245	49	36	5.85	15.0	15	3.8	9.9	0.7	210	78
JAN 03...	1345	284	41	6.35	11.0	80	11	9.3	1.7	560	1400
APR 04...	1030	119	42	6.83	16.0	50	14	8.9	0.1	430	220
JUL 03...	1200	57	34	6.15	29.5	0	3.9	7.7	1.5	180	540

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 20...	7	1.7	0.74	3.5	1.0	11	<1.0	4.0	<0.1	13	23
JAN 03...	8	1.7	0.97	2.8	3.0	7	4.0	4.5	<0.1	6.5	33
APR 04...	11	2.5	1.1	4.2	1.6	15	1.5	4.6	<0.1	11	42
JUL 03...	7	1.5	0.77	3.0	1.2	9	<1.0	4.7	0.2	11	30

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)
OCT 20...	--	<0.01	0.17	0.02	0.02	0.3	0.05	0.03	0.03	30	<1
JAN 03...	29	0.01	0.33	0.11	0.11	0.7	0.11	0.07	0.05	200	<1
APR 04...	34	0.01	0.40	0.04	0.03	0.5	0.09	0.04	0.04	80	<1
JUL 03...	--	<0.01	0.30	0.02	0.02	<0.2	0.06	0.05	0.03	40	<1

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

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07375050 TCHEFUNCTA RIVER NEAR COVINGTON, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (μG/L AS BA)	BERYL- LIUM, DIS- SOLVED (μG/L AS BE)	CADMIUM DIS- SOLVED (μG/L AS CD)	CHRO- MIUM, DIS- SOLVED (μG/L AS CR)	COBALT, DIS- SOLVED (μG/L AS CO)	COPPER, DIS- SOLVED (μG/L AS CU)	IRON, DIS- SOLVED (μG/L AS FE)	LEAD, DIS- SOLVED (μG/L AS PB)	LITHIUM DIS- SOLVED (μG/L AS LI)	MANGA- NESE, DIS- SOLVED (μG/L AS MN)	MERCURY DIS- SOLVED (μG/L AS HG)
OCT 20...	20	<0.5	<1	<1	<3	2	200	1	<4	26	<0.1
JAN 03...	30	<0.5	1	<1	<3	<10	270	<10	<4	59	0.1
APR 04...	32	<0.5	1	<1	4	1	270	1	<4	66	<0.1
JUL 03...	26	<0.5	<1	<1	<3	1	240	1	<4	71	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (μG/L AS MO)	NICKEL, DIS- SOLVED (μG/L AS NI)	SELE- NIUM, DIS- SOLVED (μG/L AS SE)	SILVER, DIS- SOLVED (μG/L AS AG)	STRON- TIUM, DIS- SOLVED (μG/L AS SR)	VANA- DIUM, DIS- SOLVED (μG/L AS V)	ZINC, DIS- SOLVED (μG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 20...	<10	<1	<1	<1	18	<6	<3	5	.66	100
JAN 03...	<10	<10	<1	<1	14	<6	18	85	65	65
APR 04...	<10	<1	<1	2	23	<6	9	38	12	59
JUL 03...	<10	<1	<1	<1	14	<6	11	11	1.7	80

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07375500 TANGIPAHOA RIVER AT ROBERT, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°30'23", long 90°21'42", on line between secs.39 and 40, T.6 S., R.8 E., St. Helena Meridian, Tangipahoa Parish, Hydrologic Unit 08070205, near left bank on downstream side of bridge on U.S. Highway 190, 1.2 mi west of Robert, 2.8 mi downstream from Chalpepeela Creek, and 6.0 mi east of Hammond.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--646 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 6.87 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 25, 1939, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year

AVERAGE DISCHARGE.--52 years, 1,160 ft³/s, 24.39 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 85,000 ft³/s, Apr. 7, 1983, gage height, 25.87 ft, from floodmark, from rating curve extended above 62,700 ft³/s; minimum discharge, 245 ft³/s, Oct. 30 to Nov. 3, 1968; minimum gage height, 2.95 ft, Oct. 25, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1921 reached a stage of 27.1 ft, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 8,000 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 9	2000	9,530	16.30	Feb. 23	0500	10,800	17.17
Jan. 27	0700	*36,200	*21.46	June 2	1227	10,800	17.17
Feb. 19	1800	10,200	16.94				

Minimum discharge, 396 ft³/s, Oct. 30; minimum gage height, 5.93 ft, Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	406	676	754	2440	1460	1370	1340	4880	633	522	445
2	1080	427	635	799	1960	4130	1090	992	10200	620	560	441
3	802	433	612	e1500	1770	7400	973	849	7890	615	612	446
4	645	430	598	e2500	2690	6780	922	776	3380	628	601	453
5	569	423	589	4740	4370	3880	863	734	1730	638	545	465
6	526	418	592	5120	2640	2170	820	698	1360	634	523	448
7	504	504	1910	4080	2100	1700	797	673	1130	612	521	435
8	510	1170	5240	5880	1960	1480	768	655	1010	607	550	430
9	479	2250	8860	5680	2080	1360	747	789	989	649	518	430
10	458	1300	7960	3210	4210	1310	741	874	1140	685	496	433
11	443	813	3160	1920	7150	1200	927	813	954	638	483	458
12	431	657	2000	1490	6060	1120	1050	700	1340	601	477	493
13	424	613	1910	1280	3080	1060	840	677	1040	654	472	496
14	422	1400	1580	1140	2010	1010	772	911	870	689	468	484
15	413	1350	1270	1050	1890	1090	884	850	810	614	463	469
16	412	1560	1120	988	3130	5860	1030	763	775	593	459	464
17	414	1430	1020	946	6670	7530	823	699	740	588	457	457
18	607	926	942	1010	7710	4900	748	657	713	583	454	444
19	783	746	911	1850	9470	2290	709	637	692	575	452	442
20	521	666	918	3660	8370	1650	690	614	686	591	464	434
21	468	626	919	4430	4970	1360	676	599	671	587	550	436
22	449	613	874	3820	7800	1200	668	615	655	582	518	437
23	434	931	830	2370	10200	1110	657	685	1610	575	486	435
24	425	1260	784	1970	7710	1040	646	675	1390	567	500	429
25	423	924	754	8210	4110	983	636	627	1070	562	559	421
26	418	754	737	20500	2280	938	633	592	795	546	557	416
27	412	688	727	30700	1820	894	695	578	723	537	506	413
28	411	695	721	11400	1580	860	2680	925	680	529	475	410
29	409	811	734	5260	---	849	3780	2380	651	530	460	409
30	407	758	752	4780	---	1190	2600	2770	643	526	464	407
31	406	---	752	4080	---	1760	---	1600	---	519	457	---
TOTAL	16655	25982	51087	147117	122230	71564	31235	27747	51217	18507	15629	13280
MEAN	537	866	1648	4746	4365	2309	1041	895	1707	597	504	443
MAX	1550	2250	8860	30700	10200	7530	3780	2770	10200	689	612	496
MIN	406	406	589	754	1580	849	633	578	643	519	452	407
CFSM	.83	1.34	2.55	7.35	6.76	3.57	1.61	1.39	2.64	.92	.78	.69
IN.	.96	1.50	2.94	8.47	7.04	4.12	1.80	1.60	2.95	1.07	.90	.76

CAL YR 1989	TOTAL 416027	MEAN 1140	MAX 13600	MIN 406	CFSM 1.76	IN. 23.96
WTR YR 1990	TOTAL 592250	MEAN 1623	MAX 30700	MIN 406	CFSM 2.51	IN. 34.10

e Estimated.

MISSISSIPPI RIVER DELTA

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07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.63	6.03	6.84	7.10	11.38	9.24	9.02	8.95	13.73	6.80	6.40	6.11
2	8.27	6.11	6.69	7.24	10.40	13.03	8.33	8.08	16.93	6.75	6.54	6.10
3	7.38	6.12	6.60	---	9.95	15.59	8.03	7.68	15.84	6.73	6.73	6.12
4	6.86	6.11	6.55	---	11.60	15.21	7.89	7.44	12.48	6.78	6.68	6.14
5	6.60	6.07	6.51	14.14	13.61	13.14	7.73	7.30	9.86	6.82	6.49	6.19
6	6.45	6.04	6.51	14.40	11.67	10.85	7.59	7.18	8.94	6.80	6.41	6.13
7	6.38	6.35	10.11	13.62	10.75	9.81	7.51	7.09	8.36	6.72	6.40	6.08
8	6.41	8.30	14.29	14.83	10.41	9.29	7.42	7.02	8.01	6.70	6.51	6.06
9	6.31	11.28	16.06	14.71	10.68	9.00	7.35	7.48	7.96	6.85	6.39	6.06
10	6.24	8.90	15.70	12.65	13.22	8.88	7.32	7.76	8.38	6.98	6.31	6.07
11	6.19	7.41	12.43	10.49	15.45	8.61	7.89	7.56	7.86	6.81	6.26	6.16
12	6.16	6.88	10.70	9.37	14.75	8.42	8.23	7.19	8.89	6.68	6.24	6.29
13	6.14	6.72	10.50	8.75	12.28	8.26	7.65	7.11	8.10	6.87	6.22	6.31
14	6.14	9.18	9.61	8.35	10.52	8.13	7.43	7.84	7.61	6.99	6.20	6.26
15	6.12	9.04	8.73	8.06	10.25	8.32	7.77	7.68	7.40	6.73	6.18	6.21
16	6.12	9.65	8.27	7.88	12.22	14.47	8.17	7.40	7.29	6.66	6.17	6.19
17	6.14	9.27	7.96	7.73	15.14	15.68	7.60	7.18	7.17	6.64	6.16	6.16
18	6.81	7.75	7.72	7.94	15.78	13.93	7.35	7.03	7.08	6.62	6.15	6.11
19	7.42	7.15	7.61	10.04	16.64	11.07	7.22	6.96	7.01	6.59	6.14	6.11
20	6.52	6.87	7.64	13.25	16.11	9.68	7.15	6.88	6.99	6.65	6.19	6.08
21	6.33	6.71	7.64	13.91	14.02	9.00	7.10	6.83	6.93	6.64	6.50	6.08
22	6.25	6.66	7.49	13.39	15.74	8.61	7.07	6.88	6.88	6.62	6.39	6.08
23	6.19	7.74	7.34	11.43	16.94	8.37	7.03	7.13	9.44	6.59	6.27	6.08
24	6.15	8.75	7.19	10.53	15.76	8.20	6.99	7.10	9.02	6.56	6.32	6.05
25	6.13	7.71	7.09	15.61	13.30	8.06	6.96	6.93	8.19	6.55	6.53	6.02
26	6.11	7.14	7.03	18.95	11.07	7.94	6.95	6.80	7.36	6.49	6.53	6.00
27	6.08	6.91	7.00	20.72	10.07	7.81	7.16	6.75	7.12	6.46	6.34	5.99
28	6.07	6.93	6.97	17.13	9.53	7.72	11.54	7.77	6.97	6.43	6.23	5.98
29	6.06	7.31	7.02	14.21	---	7.69	13.13	11.23	6.86	6.43	6.17	5.97
30	6.04	7.13	7.09	13.92	---	8.59	11.52	11.92	6.83	6.42	6.19	5.96
31	6.03	---	7.09	13.33	---	9.93	---	9.57	---	6.39	6.16	---
MAX	9.63	11.28	16.06	---	16.94	15.68	13.13	11.92	16.93	6.99	6.73	6.31
MIN	6.03	6.03	6.51	---	9.53	7.69	6.95	6.75	6.83	6.39	6.14	5.96

MISSISSIPPI RIVER DELTA

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1954-56, 1966-76, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1979 to September 1982.

WATER TEMPERATURES: November 1979 to September 1982.

INSTRUMENTATION.--Water-quality monitor November 1979 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 87 micromhos Dec. 6, 1981; minimum, 27 micromhos Apr. 2, 3, 1982.

WATER TEMPERATURES: Maximum 33.0 °C July 22, 24, 1981; minimum, 4.0 °C Jan. 15, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (μ S/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 20...	1515	521	49	5.83	16.0	15	12	9.8	1.3	2400	80
JAN 03...	1500	E1500	55	6.58	11.0	50	15	10.0	1.9	1100	900
APR 04...	1100	922	58	6.95	18.0	15	4.5	9.0	1.0	570	540
JUL 03...	1030	615	49	6.48	29.0	0	7.0	8.0	2.3	K100	260

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 20...	10	2.3	0.94	4.1	2.5	12	2.0	5.2	0.1	12	32
JAN 03...	10	2.3	1.1	4.7	2.7	9	4.0	6.9	<0.1	9.0	36
APR 04...	9	1.8	1.1	3.7	1.8	12	1.7	5.9	<0.1	10	38
JUL 03...	10	2.3	0.94	4.9	1.4	16	1.3	6.0	0.2	12	45

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	PHOS- PHOROUS DIS- SOLVED (MG/L AS P)	PHOS- PHOROUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (μ G/L AS AL)	ARSENIC DIS- SOLVED (μ G/L AS AS)
OCT 20...	38	0.01	0.54	0.08	0.06	0.6	0.12	0.05	0.05	80	<1
JAN 03...	37	<0.01	0.42	0.11	0.11	0.8	0.12	0.03	0.05	90	<1
APR 04...	35	0.01	0.30	0.02	0.02	0.5	0.07	0.02	0.02	140	<1
JUL 03...	37	<0.01	0.10	0.01	0.01	0.4	0.07	0.02	0.02	20	<1

< Actual value is known to be less than the value shown.

E Estimated.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 20...	30	<0.5	<1	2	<3	2	180	1	<4	27	<0.1
JAN 03...	34	<0.5	1	<1	<3	<10	160	<10	<4	39	<0.1
APR 04...	28	<0.5	<1	1	<3	1	350	1	<4	48	<0.1
JUL 03...	30	<0.5	<1	<1	<3	2	190	<1	<4	80	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 20...	<10	1	<1	<1	23	<6	3	62	87	73
JAN 03...	<10	<10	<1	<1	22	<6	8	114	E462	78
APR 04...	<10	<1	<1	<1	17	<6	<3	32	80	82
JUL 03...	<10	2	<1	<1	22	<6	8	34	56	83

< Actual value is known to be less than the value shown.

E Estimated.

MISSISSIPPI RIVER DELTA

07375800 TICKFAW RIVER AT LIVERPOOL, LA

LOCATION.--Lat 30°55'50", long 90°40'24", on line between secs.46 and 47, T.1 S., R.5 E., St. Helena Meridian, St. Helena Parish, Hydrologic Unit 08070203, near left bank on downstream side of bridge on State Highway 38, 0.2 mi east of intersection of State Highways 38 and 441, 0.5 mi upstream from Cotton Patch Branch, and 1.0 mi north of Liverpool.

DRAINAGE AREA.--89.7 mi².

PERIOD OF RECORD.--March 1956 to September 1968, October 1979 to September 1981 (published as "near Liverpool"). October 1968 to September 1979 (annual maximums only), October 1981 to current year (gage heights only).

GAGE.--Water-stage recorder with a data-collection platform and rain gage. Datum of gage is 204.44 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Prior to Oct. 1, 1982 altitude of gage, 206 ft, from topographic map. Mar. 9, 1956, to Sept. 30, 1968, at site 0.2 mi west at same datum. Oct. 1, 1963, to Aug. 9, 1979, nonrecording gage and crest-stage indicator at same site 0.2 mi west at same datum.

AVERAGE DISCHARGE.--14 years (1957-68, 1980-81), 116 ft³/s, 17.56 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s, Apr. 6, 1983, maximum gage height, 13.30 ft; minimum discharge, 29 ft³/s, Sept. 26-30, 1968; minimum gage height, 1.76 ft, Oct. 9, 11, 12, 13, 14, 15, 16, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,300 ft³/s, Jan. 25, gage height, 12.38 ft; minimum gage height, 2.26 ft, Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.49	2.40	2.97	6.07	3.78	3.31	2.93	2.79	8.62	2.46	2.39	2.31
2	2.74	2.43	2.94	4.48	3.52	7.95	2.84	2.72	8.59	2.44	2.35	2.33
3	2.55	2.43	2.92	3.60	3.63	8.62	2.90	2.67	6.10	2.44	2.34	2.31
4	2.48	2.43	2.91	4.31	5.50	5.49	2.88	2.65	3.53	2.44	2.33	2.31
5	2.44	2.43	2.92	6.20	5.49	3.79	2.80	2.63	3.11	2.43	2.33	2.31
6	2.42	2.44	2.94	5.72	3.89	3.45	2.75	2.62	2.87	2.43	2.40	2.30
7	2.41	2.60	4.53	5.73	3.81	3.27	2.72	2.61	2.78	2.41	2.43	2.28
8	2.40	3.07	7.56	6.07	3.67	3.14	2.70	2.60	2.74	2.40	2.35	2.27
9	2.40	2.89	8.04	4.98	3.82	3.05	2.69	2.97	3.31	2.40	2.32	2.31
10	2.39	2.61	4.81	3.77	5.43	3.00	2.81	2.96	2.86	2.41	2.31	2.33
11	2.39	2.51	3.67	3.45	6.35	2.96	3.16	2.70	3.38	2.51	2.31	2.33
12	2.38	2.48	4.11	3.28	4.31	2.92	2.87	2.65	3.22	2.43	2.31	2.40
13	2.38	2.49	4.33	3.15	3.63	2.88	2.76	3.44	2.77	2.40	2.31	2.36
14	2.38	2.50	3.61	3.05	3.43	2.86	2.78	3.26	2.80	2.39	2.31	2.42
15	2.38	2.54	3.35	2.99	4.14	2.91	2.99	2.79	2.79	2.38	2.31	2.46
16	2.39	2.62	3.21	2.95	7.01	3.99	2.83	2.68	2.63	2.38	2.31	2.47
17	2.77	2.62	3.11	2.94	6.31	4.26	2.75	2.65	2.57	2.39	2.30	2.39
18	2.85	2.58	3.06	3.30	4.22	3.53	2.70	2.61	2.54	2.39	2.30	2.35
19	2.48	2.56	3.09	5.52	5.58	3.18	2.67	2.59	2.52	2.37	2.32	2.32
20	2.42	2.55	3.13	4.87	5.09	3.01	2.67	2.57	2.50	2.36	2.34	2.31
21	2.40	2.55	3.09	4.64	4.19	2.92	2.66	2.60	2.48	2.36	2.31	2.30
22	2.40	2.64	3.03	4.32	7.97	2.87	2.65	2.71	2.47	2.35	2.31	2.51
23	2.40	3.80	2.95	3.57	8.37	2.83	2.64	2.60	3.71	2.35	2.36	2.35
24	2.39	3.04	2.90	5.80	5.23	2.80	2.62	2.56	3.79	2.38	2.46	2.28
25	2.39	2.84	2.89	11.19	3.75	2.78	2.61	2.54	2.85	2.37	2.35	2.27
26	2.38	2.77	2.88	9.06	3.44	2.76	2.61	2.53	2.61	2.35	2.33	2.28
27	2.38	2.85	2.88	6.35	3.28	2.75	3.15	2.66	2.64	2.34	2.31	2.28
28	2.39	3.26	2.88	4.27	3.18	2.74	5.26	4.46	2.65	2.34	2.31	2.27
29	2.39	3.19	3.38	5.18	---	2.75	3.44	7.59	2.52	2.34	2.30	2.27
30	2.39	3.01	4.74	6.24	---	3.15	2.94	5.15	2.48	2.34	2.31	2.27
31	2.40	---	5.16	4.41	---	3.19	---	4.44	---	2.33	2.34	---
MAX	3.49	3.80	8.04	11.19	8.37	8.62	5.26	7.59	8.62	2.51	2.46	2.51
MIN	2.38	2.40	2.88	2.94	3.18	2.74	2.61	2.53	2.47	2.33	2.30	2.27

MISSISSIPPI RIVER DELTA

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07376000 TICKFAW RIVER AT HOLDEN, LA

LOCATION.--Lat 30°30'13", long 90°40'38", in SE 1/4 NE 1/4 sec.26, T.6 S., R.5 E., St. Helena Meridian, Livingston Parish, Hydrologic Unit 08070203, near left bank on downstream side of bridge on U.S. Highway 190, 0.5 mi west of Holden, and 5.1 mi upstream from Big Branch.

DRAINAGE AREA.--247 mi².

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

REVISED RECORDS.--WSP 1711: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 13, 1944, nonrecording gage, Sept. 14, 1944, to June 14, 1948, water-stage recorder, June 15, 1949, to Dec. 9, 1949, nonrecording gage at same site and datum.

REMARKS.--Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--50 years, 377 ft³/s, 20.73 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,500 ft³/s, Apr. 7, 1983, gage height, 21.04 ft; from floodmark, from rating curve extended above 18,700 ft³/s; minimum discharge, 65 ft³/s, Oct. 1, 2, 3, 4, 1969; minimum gage height, 0.93 ft, Sept. 26, 27, Oct. 21, 22, 23, 24, 28, 29, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 10	2316	2,630	10.05	Feb. 11	0858	2,320	9.38
Jan. 2	1817	2,310	9.27	Feb. 19	0554	3,590	12.22
Jan. 7	0925	2,530	9.82	Feb. 24	1151	4,060	13.09
Jan. 21	1621	2,740	10.31	Mar. 4	2046	3,410	11.85
Jan. 27	0231	*13,500	*19.13	June 3	1100	4,020	13.03

Minimum discharge, 111 ft³/s, May 27, 28, Sept. 8, 9, 10, 11; minimum gage height, 1.00 ft, Sept. 9, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	826	120	211	2000	1430	484	423	348	1920	183	133	114
2	565	131	176	2240	892	1450	352	231	2800	173	147	115
3	379	129	160	1700	625	2410	282	189	3900	170	145	114
4	248	126	151	1130	943	3210	234	166	3610	171	135	127
5	199	123	145	1980	1340	3110	214	152	2800	171	132	120
6	174	122	154	2420	1170	2420	204	144	1150	169	129	119
7	159	284	655	2470	1070	916	189	138	500	169	128	113
8	156	1390	1510	2240	787	561	176	134	385	159	134	112
9	147	1230	1920	2210	844	454	161	160	326	155	146	112
10	140	761	2420	1720	1780	394	161	159	294	198	131	113
11	136	414	2370	1020	2260	347	200	179	338	184	125	115
12	133	247	1680	604	1860	312	268	167	305	159	123	138
13	131	192	722	471	1360	285	241	142	318	197	122	157
14	130	215	660	392	818	263	194	141	340	205	121	143
15	130	239	549	340	564	286	203	238	353	170	120	137
16	136	488	409	305	858	1110	238	213	334	158	117	130
17	134	560	341	282	1750	1500	221	155	260	156	117	131
18	142	313	297	312	2740	1140	186	138	226	153	116	130
19	192	223	273	880	3460	721	164	131	208	150	116	144
20	202	185	297	1980	2830	460	153	125	196	148	115	143
21	156	163	316	2630	2220	349	147	121	190	151	115	119
22	139	171	275	1880	2760	292	143	118	188	146	118	120
23	134	280	246	1100	3310	260	139	119	424	144	119	124
24	131	340	221	785	3950	238	137	130	351	142	115	129
25	129	386	204	2200	3220	220	134	118	389	146	124	143
26	127	270	195	7460	2240	208	131	113	359	143	131	120
27	125	213	190	11100	873	198	226	112	292	139	119	116
28	124	201	186	5410	575	190	700	115	220	135	116	115
29	123	229	205	3410	---	187	944	417	199	134	114	114
30	122	205	372	2140	---	302	692	759	198	132	114	113
31	121	---	1420	1890	---	475	---	912	---	137	117	---
TOTAL	5890	9950	18930	66701	48529	24752	7857	6484	23373	4947	3854	3740
MEAN	190	332	611	2152	1733	798	262	209	779	160	124	125
MAX	826	1390	2420	11100	3950	3210	944	912	3900	205	147	157
MIN	121	120	145	282	564	187	131	112	188	132	114	112
CFSM	.77	1.34	2.47	8.71	7.02	3.23	1.06	.85	3.15	.65	.50	.50
IN.	.89	1.50	2.85	10.05	7.31	3.73	1.18	.98	3.52	.75	.58	.56

CAL YR 1989	TOTAL 146430	MEAN 401	MAX 4050	MIN 117	CFSM 1.62	IN. 22.05
WTR YR 1990	TOTAL 225007	MEAN 616	MAX 11100	MIN 112	CFSM 2.50	IN. 33.89

MISSISSIPPI RIVER DELTA

07376000 TICKFAW RIVER AT HOLDEN, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.96	1.12	2.05	8.48	7.04	3.73	3.43	3.04	8.37	1.63	1.23	1.05
2	3.87	1.22	1.80	9.10	5.36	7.06	3.07	2.36	10.49	1.55	1.35	1.06
3	2.91	1.20	1.68	7.64	4.35	9.60	2.68	2.07	12.81	1.53	1.34	1.04
4	2.11	1.18	1.61	5.96	5.51	11.42	2.38	1.91	12.24	1.54	1.25	1.17
5	1.76	1.15	1.56	8.41	6.77	11.20	2.25	1.81	10.45	1.53	1.22	1.11
6	1.57	1.14	1.64	9.55	6.26	9.59	2.18	1.74	5.94	1.52	1.20	1.10
7	1.45	2.09	4.20	9.66	5.94	5.41	2.07	1.68	3.54	1.52	1.19	1.03
8	1.43	6.78	7.13	9.09	5.01	4.07	1.98	1.65	2.94	1.44	1.23	1.02
9	1.36	6.29	8.27	9.02	5.21	3.59	1.87	1.86	2.61	1.42	1.35	1.02
10	1.30	4.71	9.55	7.71	7.96	3.29	1.87	1.86	2.41	1.74	1.21	1.03
11	1.27	3.19	9.42	5.60	9.23	3.05	2.14	2.00	2.67	1.64	1.16	1.05
12	1.24	2.28	7.58	4.08	8.22	2.86	2.60	1.92	2.48	1.45	1.14	1.27
13	1.22	1.92	4.58	3.48	6.83	2.70	2.43	1.72	2.55	1.73	1.13	1.43
14	1.21	2.08	4.33	3.10	5.08	2.57	2.11	1.71	2.68	1.80	1.12	1.32
15	1.21	2.39	3.84	2.83	4.09	2.69	2.17	2.39	2.76	1.53	1.11	1.26
16	1.27	3.56	3.18	2.64	5.17	6.03	2.41	2.23	2.65	1.44	1.08	1.21
17	1.25	3.89	2.83	2.50	7.92	7.23	2.30	1.83	2.19	1.42	1.08	1.21
18	1.32	2.67	2.59	2.67	10.34	6.18	2.05	1.69	1.95	1.40	1.07	1.21
19	1.71	2.13	2.45	5.02	11.95	4.73	1.89	1.62	1.83	1.38	1.07	1.32
20	1.79	1.87	2.59	8.43	10.56	3.61	1.81	1.57	1.74	1.36	1.06	1.31
21	1.43	1.70	2.70	10.06	9.14	3.05	1.76	1.52	1.68	1.38	1.06	1.10
22	1.30	1.76	2.46	8.14	10.42	2.74	1.73	1.50	1.67	1.34	1.09	1.11
23	1.25	2.48	2.28	5.88	11.64	2.55	1.70	1.51	3.11	1.32	1.10	1.15
24	1.23	2.83	2.12	4.81	12.89	2.41	1.67	1.62	2.75	1.31	1.06	1.19
25	1.20	3.07	2.00	8.94	11.42	2.29	1.65	1.49	2.97	1.34	1.14	1.31
26	1.19	2.42	1.94	15.61	9.15	2.21	1.62	1.45	2.80	1.32	1.21	1.11
27	1.17	2.06	1.90	18.27	5.28	2.14	2.24	1.43	2.39	1.28	1.10	1.07
28	1.16	1.98	1.87	14.73	4.13	2.08	4.62	1.46	1.91	1.25	1.07	1.06
29	1.15	2.17	2.01	11.81	---	2.06	5.55	3.28	1.75	1.24	1.05	1.05
30	1.14	2.02	2.96	8.94	---	2.78	4.63	4.90	1.74	1.22	1.05	1.04
31	1.13	---	6.78	8.30	---	3.69	---	5.40	---	1.26	1.08	---
MAX	4.96	6.78	9.55	18.27	12.89	11.42	5.55	5.40	12.81	1.80	1.35	1.43
MIN	1.13	1.12	1.56	2.50	4.09	2.06	1.62	1.43	1.67	1.22	1.05	1.02

07376500 NATALBANY RIVER AT BAPTIST, LA.

LOCATION.--Lat 30°30'15", long 90°32'45", in NE 1/4 NW 1/4 sec.30, T.6 S., R.7 E., St. Helena Meridian, Tangipahoa Parish, Hydrologic Unit 08070203, near right bank on downstream side of bridge on U.S. Highway 190, 0.7 mi downstream from Still Branch, and 0.7 mi west of Baptist.

DRAINAGE AREA.--79.5 mi².

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

REVISED RECORDS.--WSP 1057: 1943.

GAGE.--Water-stage recorder. Datum of gage is 11.28 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges. Records poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 117 ft³/s, 19.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,810 ft³/s, Apr. 7, 1983, gage height, 20.80 ft (observed); minimum discharge, 1.8 ft³/s, Nov. 2-5, 1963; minimum gage height, 2.78 ft, Oct. 14, 15, 16, 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 1,700 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 8	0206	1,860	12.52	Feb. 11	0518	2,090	12.98
Dec. 8	1200	2,170	13.15	(a)	Unknown	Unknown	Unknown
Dec. 31	1330	2,230	13.25	Mar. 2	1935	1,810	12.43
Jan. 5	0600	1,910	12.62	Mar. 16	1630	2,050	12.92
Jan. 25	1830	*2,490	*13.71	June 23	1351	2,030	12.88

a Sometime during period Feb. 21-23.

Minimum discharge, 8.0 ft³/s, Sept. 28, 29, minimum gage height, 3.39 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e14	e14	22	1020	178	145	105	66	e130	27	19	11
2	e13	22	19	265	150	1510	74	52	e200	26	16	13
3	e13	16	16	129	135	1020	60	44	e270	25	16	10
4	e12	e14	15	820	742	338	53	39	e250	30	15	9.8
5	e12	e13	14	1630	411	200	48	36	e220	28	15	13
6	e11	e12	35	713	242	153	44	33	87	26	15	12
7	e11	444	1320	924	296	128	42	31	59	24	15	11
8	e11	1660	1980	976	248	112	40	31	50	25	14	9.9
9	e11	590	685	314	505	101	38	65	46	27	13	9.5
10	e11	132	171	154	1430	94	47	56	42	23	13	9.4
11	e12	50	98	101	1330	87	136	36	46	26	13	13
12	e12	31	130	75	354	82	73	31	49	22	13	57
13	e12	25	92	58	210	78	49	32	40	41	13	24
14	e12	62	65	49	174	75	45	45	38	26	13	12
15	e13	210	52	42	211	149	105	53	37	22	12	11
16	e14	431	44	39	752	1860	73	37	36	25	12	10
17	15	107	41	36	609	976	51	31	33	33	12	9.6
18	16	47	37	104	330	290	42	28	31	23	12	9.3
19	e14	31	48	551	454	153	38	28	30	21	12	9.1
20	e13	24	65	751	820	103	36	27	29	21	13	8.9
21	e13	20	52	775	439	82	35	26	28	23	12	8.8
22	e13	99	40	248	e1500	71	33	28	28	35	15	8.9
23	e12	295	34	124	1590	64	32	25	1200	24	13	11
24	e12	101	30	202	508	59	32	24	199	20	21	9.4
25	e11	47	28	2040	243	55	32	24	54	23	22	8.6
26	e12	32	26	2360	178	52	30	24	38	19	15	8.7
27	e14	25	25	958	148	49	173	25	50	17	12	8.6
28	e13	38	24	281	130	47	800	46	44	17	11	8.4
29	e12	61	60	472	---	47	383	67	34	18	11	8.3
30	e11	31	210	475	---	325	107	64	30	21	13	8.7
31	e13	---	1650	249	---	241	---	61	---	17	12	---
TOTAL	388	4684	7128	16935	14317	8746	2856	1215	3428	755	433	361.9
MEAN	12.5	156	230	546	511	282	95.2	39.2	114	24.4	14.0	12.1
MAX	16	1660	1980	2360	1590	1860	800	67	1200	41	22	57
MIN	11	12	14	36	130	47	30	24	28	17	11	8.3
CFSM	.16	1.96	2.89	6.87	6.43	3.55	1.20	.49	1.44	.31	.18	.15
IN.	.18	2.19	3.34	7.92	6.70	4.09	1.34	.57	1.60	.35	.20	.17

CAL YR 1989	TOTAL 37839	MEAN 104	MAX 2180	MIN 11	CFSM 1.30	IN. 17.71
WTR YR 1990	TOTAL 61246.9	MEAN 168	MAX 2360	MIN 8.3	CFSM 2.11	IN. 28.66

e Estimated.

MISSISSIPPI RIVER DELTA

07376500 NATALBANY RIVER AT BAPTIST, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	3.92	9.90	5.10	4.80	4.78	4.38	---	3.91	3.72	3.49
2	---	3.67	3.85	6.32	4.87	11.50	4.47	4.18	---	3.88	3.65	3.56
3	---	3.54	3.80	5.29	4.74	9.67	4.30	4.05	---	3.87	3.64	3.47
4	---	---	3.76	8.50	8.39	6.22	4.20	3.97	---	3.96	3.63	3.46
5	---	---	3.73	11.89	6.66	5.27	4.11	3.91	---	3.92	3.62	3.57
6	---	---	4.11	8.74	5.58	4.90	4.06	3.87	4.62	3.88	3.63	3.53
7	---	6.35	10.81	9.49	5.95	4.69	4.02	3.84	4.28	3.84	3.62	3.49
8	---	12.03	12.76	9.80	5.62	4.55	3.99	3.83	4.16	3.87	3.60	3.47
9	---	8.08	8.46	6.65	7.26	4.44	3.96	4.36	4.09	3.91	3.58	3.45
10	---	5.30	5.64	5.50	11.01	4.37	4.09	4.23	4.03	3.82	3.57	3.45
11	---	4.43	5.01	5.04	10.71	4.30	4.99	3.93	4.08	3.87	3.56	3.55
12	---	4.12	5.30	4.76	6.32	4.24	4.45	3.84	4.13	3.80	3.56	4.31
13	---	4.00	4.95	4.55	5.35	4.20	4.13	3.85	3.99	4.15	3.56	3.82
14	---	4.59	4.64	4.41	5.07	4.16	4.06	4.07	3.95	3.88	3.56	3.55
15	---	5.58	4.46	4.31	5.36	4.71	4.74	4.18	3.93	3.80	3.55	3.51
16	---	7.27	4.34	4.25	8.48	12.45	4.45	3.93	3.92	3.86	3.55	3.48
17	3.51	5.07	4.28	4.20	7.78	9.42	4.16	3.83	3.86	4.01	3.55	3.46
18	3.53	4.38	4.22	4.91	6.17	6.10	4.03	3.78	3.83	3.82	3.54	3.44
19	---	4.12	4.37	7.91	6.82	5.18	3.96	3.78	3.81	3.78	3.54	3.44
20	---	3.98	4.63	8.91	8.76	4.77	3.92	3.75	3.79	3.79	3.55	3.43
21	---	3.89	4.46	8.97	6.68	4.56	3.89	3.74	3.78	3.81	3.52	3.42
22	---	4.64	4.27	6.20	---	4.44	3.87	3.77	3.77	4.05	3.62	3.43
23	---	6.52	4.16	5.24	11.88	4.35	3.85	3.72	9.80	3.84	3.55	3.51
24	---	5.01	4.09	5.68	7.20	4.28	3.85	3.70	5.54	3.75	3.74	3.44
25	---	4.38	4.04	12.73	5.59	4.23	3.84	3.70	4.35	3.83	3.80	3.42
26	---	4.13	4.02	13.48	5.10	4.18	3.81	3.70	4.11	3.73	3.63	3.42
27	---	4.00	4.00	9.19	---	4.13	5.01	3.71	4.28	3.69	3.55	3.41
28	---	4.18	3.98	5.85	4.70	4.11	8.75	4.07	4.21	3.67	3.52	3.40
29	---	4.57	4.50	6.98	---	4.11	6.63	4.38	4.03	3.70	3.50	3.40
30	---	4.10	5.95	7.07	---	6.26	4.80	4.35	3.96	3.77	3.55	3.42
31	---	---	11.61	5.63	---	5.78	---	4.30	---	3.68	3.52	---
MAX	---	---	12.76	13.48	---	12.45	8.75	4.38	---	4.15	3.80	4.31
MIN	---	---	3.73	4.20	---	4.11	3.81	3.70	---	3.67	3.50	3.40

MISSISSIPPI RIVER DELTA

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07377000 AMITE RIVER NEAR DARLINGTON, LA

LOCATION.--Lat 30°53'20", long 90°50'40", in sec.72, T.2 S., R.4 E., St. Helena Meridian, St. Helena Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 10, 1.5 mi upstream from Collins Creek, and 4.0 mi west of Darlington.

DRAINAGE AREA.--580 mi².

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

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 145.81 ft above National Geodetic Vertical Datum of 1929. Jan. 13, 1951, to May 28, 1963, water-stage recorder at former channel 700 ft to the left; and July 30, 1963, to Feb. 12, 1964, nonrecording gage at present site. Prior to Oct. 1, 1963, at datum 2.99 ft higher.

AVERAGE DISCHARGE.--40 years, 948 ft³/s, 22.20 in/yr.

REMARKS.--Estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 104,000 ft³/s, Jan. 25, 1990, gage height, 22.05 ft; minimum, 188 ft³/s, Oct. 18, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 8	1200	8,070	11.64	Jan. 25	1630	*104,000	*22.05
Jan. 8	0830	8,360	11.81	Feb. 17	0130	30,800	17.93

Minimum discharge, 281 ft³/s, Sept. 8, 9; minimum gage height, 2.58 ft, Nov. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1630	290	430	6760	1750	1360	e1150	712	5830	413	367	295
2	1080	303	415	4030	1410	6310	e890	643	5970	408	397	294
3	619	295	397	1650	1510	6700	858	608	2880	406	408	308
4	488	288	382	1960	3810	4560	754	596	1390	407	403	302
5	423	289	375	3940	3280	2250	695	584	1040	410	356	297
6	388	291	376	6170	2150	1810	670	571	845	412	345	293
7	369	365	1450	7170	1610	1690	657	560	742	398	382	286
8	351	520	7320	8100	1360	1600	641	560	688	397	434	284
9	335	516	5380	5720	1630	e1450	629	1050	680	522	343	284
10	324	565	3270	2540	5230	e1420	641	1270	648	531	327	338
11	321	432	1320	1420	7360	e1270	750	900	1030	533	320	326
12	317	363	1770	1090	4450	e1180	806	694	868	524	319	430
13	315	339	1490	888	1870	e1170	720	759	680	539	316	400
14	315	357	1040	769	1390	e1180	682	774	651	433	316	364
15	314	457	805	705	4310	e1380	702	1240	675	397	312	432
16	318	729	689	661	17800	e1490	705	796	623	383	312	404
17	528	694	612	637	23300	e1370	667	671	585	405	309	337
18	397	504	574	1070	9900	e1200	635	648	559	403	306	317
19	484	425	592	4970	4880	e1140	613	639	542	388	308	307
20	455	391	624	4330	3390	e1100	602	601	542	391	305	302
21	355	376	608	4360	2300	e1030	598	593	523	391	321	303
22	332	433	567	3880	5690	e950	598	806	512	521	340	316
23	323	772	498	2040	6360	e910	593	1220	836	397	350	358
24	317	681	452	5970	4230	e880	602	847	1150	390	356	305
25	310	606	435	66400	1990	e850	674	665	667	380	336	290
26	305	510	434	42700	1540	e820	599	608	513	366	320	291
27	301	472	437	12600	1380	e790	630	590	532	353	313	289
28	298	557	431	3650	1330	e780	1200	2190	543	345	306	289
29	295	526	705	3240	---	e930	1320	2610	459	345	301	288
30	293	460	3380	4150	---	e2700	932	1140	429	351	298	285
31	291	---	5240	2680	---	e2050	---	1080	---	344	298	---
TOTAL	13191	13806	42498	216250	127210	54320	22213	27225	33632	12883	10424	9614
MEAN	426	460	1371	6976	4543	1752	740	878	1121	416	336	320
MAX	1630	772	7320	66400	23300	6700	1320	2610	5970	539	434	432
MIN	291	288	375	637	1330	780	593	560	429	344	298	284
CFSM	.73	.79	2.36	12.0	7.83	3.02	1.28	1.51	1.93	.72	.58	.55
IN.	.85	.89	2.73	13.87	8.16	3.48	1.42	1.75	2.16	.83	.67	.62

CAL YR 1989	TOTAL 397374	MEAN 1089	MAX 14500	MIN 288	CFSM 1.88	IN. 25.49
WTR YR 1990	TOTAL 583266	MEAN 1598	MAX 66400	MIN 284	CFSM 2.76	IN. 37.41

e Estimated.

MISSISSIPPI RIVER DELTA

07377000 AMITE RIVER NEAR DARLINGTON, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.66	2.60	2.95	10.67	5.92	5.01	---	3.78	9.87	3.29	3.19	3.01
2	4.59	2.63	2.91	8.22	5.40	10.20	---	3.61	10.00	3.28	3.25	3.01
3	3.48	2.61	2.87	5.44	5.53	10.62	4.10	3.53	6.97	3.27	3.27	3.04
4	3.11	2.59	2.83	5.83	8.30	8.72	3.88	3.50	5.05	3.27	3.27	3.03
5	2.93	2.59	2.81	8.16	7.79	6.30	3.74	3.47	4.43	3.28	3.17	3.02
6	2.85	2.60	2.82	10.17	6.47	5.71	3.68	3.44	4.07	3.29	3.14	3.00
7	2.80	2.79	4.62	10.99	5.71	5.53	3.64	3.41	3.85	3.26	3.22	2.99
8	2.76	3.20	11.10	11.65	5.32	5.39	3.61	3.41	3.72	3.25	3.33	2.98
9	2.71	3.19	9.49	9.78	5.73	---	3.58	4.43	3.70	3.50	3.14	2.98
10	2.69	3.33	7.44	6.61	9.36	---	3.61	4.85	3.62	3.52	3.10	3.12
11	2.68	2.96	4.93	5.09	11.15	---	3.86	4.17	4.41	3.52	3.08	3.09
12	2.67	2.78	5.63	4.53	8.80	---	3.99	3.73	4.11	3.50	3.07	3.32
13	2.66	2.73	5.21	4.16	6.09	---	3.80	3.89	3.70	3.53	3.06	3.26
14	2.66	2.77	4.44	3.91	5.37	---	3.70	3.90	3.63	3.33	3.06	3.19
15	2.66	3.03	3.99	3.76	8.52	---	3.75	4.81	3.69	3.26	3.06	3.32
16	2.67	3.79	3.72	3.65	15.21	---	3.76	3.96	3.56	3.23	3.05	3.27
17	3.24	3.70	3.53	3.59	16.72	---	3.67	3.68	3.47	3.27	3.05	3.12
18	2.87	3.16	3.45	4.39	12.54	---	3.59	3.62	3.41	3.27	3.04	3.07
19	3.11	2.94	3.49	9.10	9.03	---	3.54	3.60	3.37	3.24	3.04	3.04
20	3.02	2.86	3.56	8.51	7.61	---	3.51	3.51	3.37	3.24	3.04	3.03
21	2.76	2.82	3.53	8.55	6.36	---	3.50	3.49	3.33	3.24	3.08	3.03
22	2.71	2.97	3.43	8.09	9.69	---	3.50	3.96	3.30	3.50	3.13	3.06
23	2.69	3.90	3.26	5.99	10.34	---	3.49	4.77	4.00	3.26	3.15	3.17
24	2.67	3.66	3.16	9.18	8.41	---	3.51	4.07	4.63	3.24	3.17	3.04
25	2.65	3.44	3.11	19.80	5.94	---	3.69	3.66	3.77	3.22	3.12	3.00
26	2.64	3.18	3.11	18.68	5.30	---	3.51	3.53	3.48	3.19	3.08	3.00
27	2.63	3.06	3.12	13.66	5.04	---	3.58	3.48	3.52	3.16	3.06	2.99
28	2.62	3.31	3.11	8.05	4.96	---	4.72	5.93	3.54	3.14	3.04	2.99
29	2.61	3.22	3.71	7.69	---	---	4.94	6.68	3.38	3.14	3.03	2.99
30	2.60	3.03	7.56	8.59	---	---	4.24	4.61	3.32	3.16	3.02	2.88
31	2.60	---	9.33	7.12	---	---	---	4.46	---	3.14	3.02	---
MAX	5.66	3.90	11.10	19.80	16.72	---	---	6.68	10.00	3.53	3.33	3.32
MIN	2.60	2.59	2.81	3.59	4.96	---	---	3.41	3.30	3.14	3.02	2.88

MISSISSIPPI RIVER DELTA

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07377500 COMITE RIVER NEAR OLIVE BRANCH, LA

LOCATION.--Lat 30°45'21", long 91°02'38", in sec.41, T.3 S., R.2 E., St. Helena Meridian, East Feliciana Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 67, 1,000 ft downstream from Knighton Bayou, and 1.3 mi northeast of Olive Branch.

DRAINAGE AREA.--145 mi².

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

REVISED RECORDS.--WSP 1177: 1948, 1949(M). WSP 1920: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 113.65 ft above National Geodetic Vertical Datum of 1929. Aug. 20, 1942, to Oct. 28, 1949, nonrecording gage, Oct. 29, 1949, to Feb. 3, 1964, water-stage recorder at site 1,400 ft upstream. Prior to Oct. 1, 1977, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges. Records are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 238 ft³/s, 22.29 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft³/s, Apr. 22, 1977; maximum gage height, 23.37 ft, present datum, Mar. 18, 1961; minimum discharge, 28 ft³/s, Oct. 12, 13, 15, 16, 17, 18, 19, 1972; minimum gage height, 0.39 ft, Sept. 6, 7, 8, 9, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 8	0130	3,040	7.21	Feb. 4	0153	3,370	6.88
Jan. 25	1649	*18,400	*19.11	Feb. 16	1858	6,120	10.07

Minimum discharge, 55 ft³/s, Sept. 6, 7, 8, 9, gage height, 0.39 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	103	115	1520	492	184	165	100	853	70	68	56
2	124	107	111	800	e350	1590	108	100	310	72	117	57
3	97	106	110	228	e400	1270	337	93	219	70	94	57
4	90	104	109	1310	2240	390	225	87	152	69	165	58
5	90	104	108	1430	721	253	137	85	108	73	85	57
6	91	103	109	1450	456	201	115	85	99	70	73	56
7	91	130	1160	1710	436	173	108	85	93	68	71	55
8	91	462	2750	1500	387	157	100	93	88	67	67	55
9	93	257	1590	632	540	146	100	294	85	98	65	57
10	93	149	286	269	1640	139	100	248	85	191	64	72
11	94	122	176	205	1880	133	100	108	152	83	62	159
12	94	113	398	178	807	123	152	103	154	130	62	166
13	94	113	279	162	e350	120	140	118	93	169	62	105
14	138	139	165	155	e250	118	132	167	84	157	62	80
15	223	196	136	151	1280	129	108	93	97	85	63	138
16	127	295	121	e140	3980	292	152	100	82	81	61	145
17	159	184	112	e130	3260	206	205	96	79	80	60	76
18	209	131	109	e350	1050	175	115	115	76	76	60	65
19	133	119	115	1970	1230	146	100	97	74	73	60	90
20	113	114	115	1320	636	126	100	85	73	72	58	111
21	108	111	107	1070	e430	118	100	85	72	71	60	76
22	107	173	100	816	1970	116	100	85	72	81	59	64
23	107	341	93	277	1520	114	100	85	103	76	64	65
24	106	235	91	2240	487	113	100	85	98	87	68	72
25	106	146	89	14200	e280	112	100	85	81	80	67	63
26	105	128	90	6740	e220	111	100	85	77	70	62	60
27	104	132	91	1530	191	103	109	85	188	67	62	60
28	104	155	91	671	174	96	279	1665	79	68	60	60
29	103	153	330	1460	---	117	188	788	73	76	58	59
30	103	127	1180	1430	---	337	115	222	71	69	58	58
31	102	---	1220	631	---	310	---	142	---	68	58	---
TOTAL	3602	4852	11656	46675	27657	7718	4090	4264	3970	2667	2155	2352
MEAN	116	162	376	1506	988	249	136	138	132	86.0	69.5	78.4
MAX	223	462	2750	14200	3980	1590	337	788	853	191	165	166
MIN	90	103	89	130	174	96	100	85	71	67	58	55
CFSM	.80	1.12	2.59	10.4	6.81	1.72	.94	.95	.91	.59	.48	.54
IN.	.92	1.24	2.99	11.97	7.10	1.98	1.05	1.09	1.02	.68	.55	.60

CAL YR 1989	TOTAL 111656	MEAN 306	MAX 5230	MIN 59	CFSM 2.11	IN. 28.65
WTR YR 1990	TOTAL 121658	MEAN 333	MAX 14200	MIN 55	CFSM 2.30	IN. 31.21

e Estimated.

MISSISSIPPI RIVER DELTA

07377500 COMITE RIVER NEAR OLIVE BRANCH, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.60	.93	1.03	4.97	2.01	1.06	1.00	.70	2.86	.49	.48	.40
2	1.15	.97	1.01	3.45	---	4.24	.75	.70	1.50	.51	.78	.41
3	.95	.96	1.00	1.92	---	3.64	1.58	.65	1.20	.49	.64	.41
4	.90	.95	.99	4.25	5.23	1.73	1.22	.61	.95	.49	.98	.41
5	.90	.94	.98	4.81	2.55	1.32	.89	.60	.76	.52	.60	.41
6	.90	.94	.99	4.85	1.92	1.14	.80	.60	.69	.49	.52	.40
7	.90	1.11	3.64	5.29	1.86	1.03	.75	.60	.65	.48	.50	.39
8	.90	2.52	6.84	4.93	1.73	.97	.70	.65	.62	.48	.48	.39
9	.90	1.79	5.04	3.15	2.13	.93	.70	1.45	.60	.63	.46	.40
10	.90	1.24	2.15	2.11	4.31	.90	.70	1.30	.60	1.07	.45	.51
11	.90	1.08	1.65	1.81	4.73	.87	.70	.75	.94	.58	.44	.94
12	.90	1.02	2.54	1.67	2.70	.84	.95	.72	.96	.81	.44	.99
13	.90	1.02	2.13	1.58	---	.83	.90	.82	.65	1.00	.44	.73
14	1.20	1.18	1.59	1.54	---	.82	.87	1.01	.59	.95	.44	.56
15	1.75	1.44	1.43	1.52	3.57	.86	.75	.65	.68	.60	.45	.87
16	1.12	1.95	1.34	---	7.50	1.44	.95	.70	.57	.57	.44	.90
17	1.30	1.43	1.27	---	6.69	1.15	1.15	.67	.55	.56	.43	.54
18	1.57	1.14	1.25	---	3.20	1.04	.80	.80	.54	.54	.43	.46
19	1.15	1.06	1.30	5.69	3.60	.93	.70	.68	.53	.52	.43	.59
20	1.02	1.03	1.29	4.62	2.37	.85	.70	.60	.52	.51	.42	.74
21	.98	1.01	1.23	4.16	---	.82	.70	.60	.51	.50	.43	.53
22	.97	1.33	1.17	3.59	4.87	.80	.70	.60	.51	.57	.42	.46
23	.97	2.14	1.13	2.14	4.10	.79	.70	.60	.71	.54	.45	.46
24	.96	1.68	1.11	5.63	2.00	.78	.70	.60	.69	.61	.48	.51
25	.96	1.23	1.10	16.27	---	.78	.70	.60	.57	.56	.48	.45
26	.95	1.12	1.11	10.29	---	.78	.70	.60	.54	.50	.44	.43
27	.94	1.14	1.11	4.05	1.10	.72	.76	.60	1.03	.48	.44	.43
28	.94	1.27	1.11	2.45	1.04	.67	1.40	1.00	.56	.48	.43	.42
29	.94	1.27	2.09	3.98	---	.81	1.09	2.72	.52	.54	.42	.42
30	.94	1.11	4.36	3.96	---	1.58	.80	1.21	.50	.49	.41	.42
31	.93	---	4.44	2.35	---	1.50	---	.91	---	.48	.41	---
MAX	1.75	2.52	6.84	---	---	4.24	1.58	2.72	2.86	1.07	.98	.99
MIN	.90	.93	.98	---	---	.67	.70	.60	.50	.48	.41	.39

07377782 WHITE BAYOU SOUTHEAST OF ZACHARY, LA

LOCATION.--Lat 30°38'13", long 91°07'39", at center of E 1/2 sec.39, T.5 S., R.1 E., St. Helena Meridian, East Baton Rouge Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on Lower Zachary Road, 1.5 mi downstream from Indian Bayou, and 2.0 mi southeast of Zachary.

DRAINAGE AREA.--45 mi², approximately.

PERIOD OF RECORD.--August 1972 to current year. Daily gage heights from January 1965 to July 1972 published as White Bayou near Zachary by Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 65.00 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges. Records are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--18 years, 82.9 ft³/s, 25.02 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,730 ft³/s, Apr. 6, 1983, gage height, 23.24 ft; minimum, no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 7	2200	1,800	16.99	Jan. 18	2330	1,960	17.57
Jan. 4	1645	2,110	18.09	Jan. 25	1845	*2,890	*20.27

Minimum discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	e1.0	3.5	185	32	e12	e15	9.4	126	1.1	.48	.00
2	4.4	e1.0	2.7	52	25	e900	e8.0	6.0	56	1.0	.42	.00
3	2.0	e1.1	1.7	29	257	e250	e35	4.2	28	2.3	.40	.00
4	1.5	e1.0	1.5	1130	1260	e50	e20	3.1	28	4.0	.35	.00
5	.82	e1.0	1.3	1210	297	e20	e10	2.4	18	4.5	.24	.00
6	.68	e.90	6.7	376	56	e16	e7.0	2.1	13	3.0	2.2	.00
7	.61	e25	894	564	68	e11	e5.0	1.8	11	2.8	21	.00
8	.83	111	1230	460	81	10	e4.0	2.5	9.3	2.6	10	.00
9	.66	61	471	70	274	9.8	e5.0	72	6.4	3.3	4.2	.00
10	.52	26	48	36	716	9.0	43	45	4.7	3.3	1.3	.00
11	.49	12	35	25	214	8.0	83	18	12	4.4	.70	.20
12	.47	5.6	219	19	45	16	25	11	9.0	5.2	.41	.12
13	.48	11	75	14	27	e12	10	7.7	4.2	30	.27	.11
14	.44	35	33	11	36	e11	28	18	2.6	16	.16	.06
15	.45	257	25	9.6	326	e14	49	10	7.8	4.0	.10	.00
16	.54	405	20	8.9	463	e44	23	6.4	2.5	1.3	.09	.00
17	254	42	14	8.9	117	e25	11	4.5	1.7	1.2	.07	.00
18	285	18	14	480	158	e10	6.5	3.5	1.8	1.0	.05	.00
19	25	9.8	43	1260	541	e13	4.0	2.8	1.5	2.5	.02	.00
20	8.6	5.5	34	345	114	e10	3.1	2.4	1.4	18	.04	.00
21	3.6	3.7	22	415	110	e9.0	2.5	2.3	1.3	3.3	.10	.00
22	2.1	97	14	82	923	e8.0	2.2	7.0	1.2	8.1	.45	.00
23	1.4	305	8.5	35	286	e8.0	2.0	4.5	16	7.2	.15	.00
24	1.1	52	6.2	1030	49	e7.0	1.8	4.6	2.5	2.8	.80	.00
25	e1.1	24	5.6	2770	25	e7.0	3.8	2.9	1.6	2.0	.74	.00
26	e1.0	14	6.0	1260	17	e6.0	12	2.6	5.5	1.6	.26	.00
27	e1.0	10	6.1	80	12	e5.0	57	3.6	6.7	1.1	.04	.00
28	e1.0	11	5.8	52	9.8	e4.0	99	128	1.4	1.0	.00	.00
29	e.90	7.5	348	812	---	e8.0	31	747	1.2	.81	.00	.00
30	e.90	5.0	738	335	---	e35	15	91	1.9	.45	.00	.00
31	e.90	---	324	57	---	e30	---	53	---	.43	.00	---
TOTAL	614.49	1559.10	4656.6	13221.4	6538.8	1577.8	620.9	1279.3	384.2	140.29	45.04	0.49
MEAN	19.8	52.0	150	426	234	50.9	20.7	41.3	12.8	4.53	1.45	.016
MAX	285	405	1230	2770	1260	900	99	747	126	30	21	.20
MIN	.44	.90	1.3	8.9	9.8	4.0	1.8	1.8	1.2	.43	.00	.00
CFSM	.44	1.15	3.34	9.48	5.19	1.13	.46	.92	.28	.10	.03	.00
IN.	.51	1.29	3.85	10.93	5.41	1.30	.51	1.06	.32	.12	.04	.00
CAL YR 1989	TOTAL 43807.86		MEAN 120		MAX 3930		MIN .44		CFSM 2.67		IN. 36.21	
WTR YR 1990	TOTAL 30638.41		MEAN 83.9		MAX 2770		MIN .00		CFSM 1.87		IN. 25.33	

e Estimated.

MISSISSIPPI RIVER DELTA

07377782 WHITE BAYOU SOUTHEAST OF ZACHARY, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.39	---	2.83	6.60	3.93	---	---	3.06	5.54	2.36	2.32	2.11
2	3.05	---	2.76	4.43	3.69	---	---	2.89	4.17	2.33	2.30	2.19
3	2.82	---	2.62	3.83	5.88	---	---	2.79	3.47	2.61	2.30	2.17
4	2.73	---	2.55	12.04	14.79	---	---	2.70	3.44	2.79	2.28	2.13
5	2.50	---	2.50	14.44	7.36	---	---	2.62	3.12	2.83	2.21	2.22
6	2.42	---	2.79	8.72	4.55	---	---	2.56	2.98	2.74	2.54	2.19
7	2.39	---	11.85	10.02	4.84	---	---	2.51	2.91	2.74	3.59	2.18
8	2.50	5.98	14.54	9.37	5.01	3.25	---	2.55	2.86	2.72	3.39	2.16
9	2.41	4.69	9.03	4.83	7.75	3.22	---	4.74	2.73	2.80	3.10	2.13
10	2.34	3.79	4.33	4.03	11.34	3.19	3.84	4.09	2.65	2.80	2.75	2.16
11	2.32	3.31	3.98	3.68	6.80	3.14	5.16	3.29	2.99	2.88	2.53	2.42
12	2.31	3.02	7.11	3.48	4.28	3.38	3.75	3.02	2.87	2.94	2.38	2.41
13	2.32	3.12	4.91	3.33	3.78	---	3.25	2.88	2.64	3.79	2.30	2.42
14	2.30	4.02	3.92	3.23	3.94	---	3.71	3.24	2.52	3.40	2.23	2.38
15	2.29	6.49	3.67	3.17	8.02	---	4.42	2.99	2.82	2.87	2.19	2.23
16	2.34	8.66	3.50	3.14	9.53	---	3.67	2.79	2.52	2.55	2.19	2.20
17	6.13	4.21	3.30	3.15	5.69	---	3.25	2.69	2.41	2.52	2.18	2.17
18	7.56	3.49	3.32	7.23	5.74	---	3.04	2.61	2.43	2.46	2.17	2.15
19	3.82	3.20	4.20	14.55	10.19	---	2.89	2.54	2.37	2.48	2.15	2.17
20	3.24	3.00	3.96	8.27	5.64	---	2.82	2.49	2.35	3.51	2.18	2.12
21	2.97	2.89	3.58	9.12	5.28	---	2.74	2.46	2.33	2.87	2.24	2.09
22	2.81	4.43	3.32	5.06	12.78	---	2.70	2.77	2.32	3.01	2.42	2.11
23	2.67	7.94	3.11	4.02	7.49	---	2.67	2.62	3.13	3.13	2.29	2.15
24	2.56	4.44	3.00	12.28	4.40	---	2.63	2.63	2.57	2.86	2.61	2.18
25	---	3.66	2.96	19.98	3.72	---	2.74	2.50	2.45	2.77	2.66	2.19
26	---	3.33	2.98	13.41	3.45	---	3.19	2.47	2.59	2.71	2.40	2.21
27	---	3.19	3.00	5.09	3.31	---	4.23	2.51	2.81	2.57	2.23	2.24
28	---	3.22	2.98	4.46	3.21	---	5.33	4.92	2.42	2.52	2.15	2.26
29	---	3.07	7.33	11.87	---	---	3.81	11.64	2.37	2.46	2.13	2.28
30	---	2.94	11.59	8.07	---	---	3.28	4.76	2.54	2.29	2.11	2.29
31	---	---	8.26	4.58	---	---	---	3.96	---	2.29	2.10	---
MAX	---	---	14.54	19.98	14.79	---	---	11.64	5.54	3.79	3.59	2.42
MIN	---	---	2.50	3.14	3.21	---	---	2.46	2.32	2.29	2.10	2.09

07378000 COMITE RIVER NEAR COMITE, LA

LOCATION.--Lat 30°30'45", long 91°04'25", on line between sections 24 and 44, T.6 S., R.1 E., St. Helena meridian, East Baton Rouge Parish, Hydrologic Unit 08070202, near left bank on downstream side of bridge on State Highway 946, 0.5 mi downstream from Blackwater Bayou, and 2.6 mi west of Comite.

DRAINAGE AREA.--284 mi².

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

REVISED RECORDS.--WSP 1920: Drainage area. WDR LA-85-1: 1984.

GAGE.--Water-stage recorder. Datum of gage is 23.85 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Prior to Apr. 22, 1946, nonrecording gage at same site. Prior to Oct. 1, 1962, at datum 5.00 ft higher. Prior to Oct. 1, 1978, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--46 years, 484 ft³/s, 23.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,000 ft³/s, Apr. 7, 1983; maximum gage height, 30.64 ft, May 19, 1953, present datum (prior to dredging August 1961); minimum discharge, 28 ft³/s, Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 23,400 ft³/s, Jan. 26, gage height, 26.54 ft; minimum discharge 72 ft³/s, June 21; minimum gage height, 1.44 ft, Sept. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	479	135	188	2650	497	351	270	146	1250	110	249	83
2	223	200	177	1740	376	3730	294	137	498	79	136	84
3	166	158	171	502	418	2270	679	132	213	78	144	83
4	150	140	168	e3600	4550	758	393	130	151	112	128	82
5	144	136	166	e6100	1460	333	211	127	249	113	122	87
6	143	135	207	2860	496	242	178	126	222	83	132	82
7	141	3350	2740	3960	447	209	164	124	282	76	224	81
8	146	6280	7770	3900	519	193	158	126	274	81	199	81
9	141	1810	4390	1620	878	152	152	328	98	76	101	82
10	139	380	1130	617	3560	220	164	290	87	123	88	87
11	139	210	421	372	2330	183	351	192	97	117	84	164
12	138	167	600	294	1140	180	223	139	138	192	83	238
13	138	226	673	269	379	251	174	137	138	248	82	288
14	138	627	341	259	266	213	165	150	108	169	81	277
15	138	939	269	246	1220	249	270	144	93	118	81	131
16	147	1700	232	239	5390	1290	217	123	90	91	81	193
17	1190	435	205	238	5890	547	171	119	81	98	81	138
18	2170	239	196	1670	3060	279	153	132	78	90	80	117
19	306	187	247	e7300	3460	199	148	132	76	85	81	186
20	188	170	244	3590	1300	169	145	119	75	99	97	160
21	159	162	212	3010	692	157	143	114	74	85	125	125
22	148	285	190	1700	4380	152	143	114	76	106	270	102
23	143	1130	179	638	2450	149	141	112	729	132	298	95
24	139	507	175	e4000	806	148	139	111	198	134	117	99
25	137	269	168	e17100	340	145	138	109	113	111	95	98
26	137	207	170	20100	243	143	146	106	85	89	94	93
27	135	201	171	e16000	211	143	252	109	127	81	85	91
28	135	332	171	3150	201	144	376	218	110	83	85	91
29	135	276	625	3320	---	151	278	2140	88	90	84	91
30	134	216	3070	2440	---	976	176	418	166	84	83	90
31	135	---	4300	901	---	577	---	193	---	147	82	---
TOTAL	8101	21209	29966	114385	46959	14937	6612	6797	6064	3380	3772	3699
MEAN	261	707	967	3690	1677	482	220	219	202	109	122	123
MAX	2170	6280	7770	20100	5890	3730	679	2140	1250	248	298	288
MIN	134	135	166	238	201	143	138	106	74	76	80	81
CFSM	.92	2.49	3.40	13.0	5.91	1.70	.78	.77	.71	.38	.43	.43
IN.	1.06	2.78	3.93	14.98	6.15	1.96	.87	.89	.79	.44	.49	.48
CAL YR 1989	TOTAL 288357		MEAN 790		MAX 14200		MIN 95		CFSM 2.78		IN. 37.77	
WTR YR 1990	TOTAL 265881		MEAN 728		MAX 20100		MIN 74		CFSM 2.56		IN. 34.83	

e Estimated.

MISSISSIPPI RIVER DELTA

07378000 COMITE RIVER NEAR COMITE, LA--Continued

GAGE HEIGHT (FEET ABOVE), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.48	1.60	1.99	8.73	4.09	3.12	2.98	2.20	6.29	1.99	2.82	1.51
2	2.21	2.05	1.91	6.94	3.57	11.36	3.04	2.13	4.12	1.71	2.08	1.52
3	1.83	1.77	1.86	3.54	3.67	8.68	4.70	2.10	2.82	1.69	2.16	1.51
4	1.71	1.64	1.85	9.52	12.24	4.98	3.56	2.08	2.41	1.95	2.02	1.50
5	1.67	1.61	1.84	14.02	6.78	3.34	2.61	2.07	2.90	2.00	1.97	1.54
6	1.66	1.60	2.10	9.12	4.09	2.86	2.38	2.06	2.81	1.73	2.04	1.49
7	1.64	8.35	8.45	10.75	3.88	2.66	2.28	2.05	2.92	1.66	2.63	1.47
8	1.68	13.97	15.68	10.68	4.13	2.56	2.23	2.07	3.02	1.70	2.49	1.46
9	1.65	6.90	11.23	6.68	5.43	2.51	2.18	3.32	1.99	1.65	1.77	1.47
10	1.63	3.04	5.42	4.00	10.93	2.72	2.25	3.14	1.88	2.04	1.64	1.53
11	1.63	2.13	3.21	2.98	8.83	2.49	3.33	2.57	1.97	2.02	1.61	2.13
12	1.62	1.84	3.89	2.58	6.11	2.47	2.64	2.20	2.31	2.43	1.59	2.66
13	1.62	2.14	4.19	2.44	3.56	2.90	2.05	2.19	2.31	2.92	1.57	2.87
14	1.62	4.00	2.83	2.38	3.00	2.68	2.25	2.30	2.06	2.43	1.56	2.85
15	1.62	4.90	2.44	2.31	5.85	2.83	2.91	2.25	1.92	2.02	1.55	1.91
16	1.69	6.80	2.22	2.26	13.23	6.55	2.61	2.09	1.89	1.78	1.55	2.36
17	5.01	3.30	2.06	2.25	13.62	4.26	2.31	2.06	1.78	1.84	1.54	1.96
18	7.48	2.31	2.00	5.37	10.21	3.06	2.19	2.18	1.76	1.76	1.53	1.77
19	2.67	1.98	2.31	15.96	10.90	2.60	2.15	2.18	1.73	1.70	1.53	2.23
20	1.99	1.86	2.29	10.24	6.52	2.39	2.13	2.08	1.71	1.83	1.68	2.12
21	1.78	1.80	2.10	9.34	4.66	2.31	2.12	2.04	1.70	1.69	1.93	1.84
22	1.70	2.41	1.96	6.90	12.28	2.27	2.13	2.05	1.72	1.89	2.51	1.63
23	1.66	5.56	1.89	4.06	9.04	2.25	2.12	2.03	4.59	2.07	2.93	1.57
24	1.63	3.62	1.87	10.24	5.11	2.24	2.11	2.03	2.66	2.10	1.86	1.61
25	1.62	2.48	1.82	22.47	3.38	2.22	2.11	2.01	2.06	1.92	1.65	1.59
26	1.61	2.12	1.83	25.51	2.86	2.20	2.17	2.00	1.80	1.72	1.64	1.54
27	1.60	2.07	1.83	18.79	2.68	2.19	2.79	2.03	2.14	1.64	1.56	1.52
28	1.60	2.80	1.84	10.08	2.61	2.20	3.52	2.64	2.02	1.65	1.55	1.52
29	1.60	2.53	3.63	10.57	---	2.25	3.02	8.47	1.82	1.71	1.53	1.51
30	1.59	2.17	9.48	9.04	---	5.65	2.41	3.76	2.38	1.65	1.51	1.50
31	1.60	---	11.28	5.46	---	4.34	---	2.67	---	2.04	1.50	---
MAX	7.48	13.97	15.68	25.51	13.62	11.36	4.70	8.47	6.29	2.92	2.93	2.87
MIN	1.59	1.60	1.82	2.25	2.61	2.19	2.05	2.00	1.70	1.64	1.50	1.46

MISSISSIPPI RIVER DELTA

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07378083 BEAVER BAYOU AT HOOPER ROAD, NEAR BATON ROUGE, LA

LOCATION.--Lat 30°33'39", long 91°01'15", in sec.4, T.6 S., R.2 E., St. Helena Meridian, East Baton Rouge Parish, Hydrologic Unit 08070207, near center of box culvert on downstream side of State Highway 408, 1,200 ft east of Roundsville Road, and 8.6 mi northeast of Baton Rouge Post Office.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--March 1982 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 50.00 ft above National Geodetic Vertical Datum of 1929 (levels by East Baton Rouge Parish, Department of Public Works).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.98 ft, Apr. 6, 1983; minimum, 2.70 ft, June 13, 14, 18, 19, 20, 21, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.79 ft, Nov. 8; minimum, 2.70 ft, June 13, 14, 18, 19, 20, 21.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.85	2.90	3.16	3.05	5.12	3.24	3.18	2.88	3.40	2.72	2.79	2.76
2	3.30	3.67	3.11	3.05	3.67	7.59	4.07	2.84	2.98	2.72	2.77	2.78
3	3.07	3.16	3.04	3.05	3.37	3.76	3.91	2.83	2.83	2.71	2.75	2.79
4	2.96	2.97	3.01	3.05	6.71	3.31	3.20	2.82	2.78	2.73	2.74	2.78
5	2.92	2.94	3.00	3.05	9.58	3.14	3.01	2.81	2.76	2.75	2.74	2.81
6	2.90	2.99	3.34	3.05	4.13	3.06	3.01	2.79	2.74	2.73	3.60	2.78
7	2.89	7.56	6.96	3.05	3.55	3.03	2.96	2.78	2.87	2.85	3.53	2.77
8	2.92	11.14	5.41	3.06	3.36	3.01	2.90	2.79	3.61	2.84	3.37	2.76
9	2.90	6.41	3.89	4.39	5.76	3.00	2.88	4.08	3.02	2.82	2.99	2.77
10	2.89	3.95	3.44	4.61	3.86	3.01	3.03	3.18	2.83	2.80	2.82	2.82
11	2.88	3.48	3.49	7.37	3.41	3.00	3.12	2.90	2.75	2.89	2.77	3.02
12	2.88	3.32	4.20	4.30	3.28	2.98	2.97	2.84	2.72	2.86	2.74	3.05
13	2.87	3.29	3.58	3.57	3.24	3.04	2.88	2.83	2.71	2.78	2.74	3.74
14	2.87	4.26	3.32	3.33	3.49	3.00	3.02	2.81	2.92	2.76	2.72	3.94
15	2.87	5.86	3.45	7.12	4.65	3.31	3.20	2.81	2.93	2.75	2.72	3.13
16	2.97	5.28	3.37	5.49	3.47	5.55	2.97	2.80	2.73	2.78	2.72	2.91
17	6.47	3.71	3.19	4.23	3.63	3.96	2.90	2.78	2.71	2.81	2.72	2.83
18	4.41	3.41	3.24	5.92	3.80	3.31	2.86	2.76	2.70	2.80	2.73	2.80
19	3.46	3.27	3.79	4.48	4.22	3.09	2.86	2.75	2.71	2.79	2.72	2.90
20	3.13	3.20	3.46	3.72	4.77	3.02	2.90	2.75	2.70	2.79	2.73	2.86
21	3.00	3.12	3.30	3.46	6.12	2.99	2.89	2.74	2.70	2.77	2.79	2.79
22	2.96	3.71	3.18	3.39	7.10	2.95	2.88	2.74	2.73	2.79	3.04	2.77
23	2.93	4.95	3.06	3.31	3.70	2.93	2.86	2.72	5.42	2.96	3.08	2.76
24	2.92	3.66	3.02	3.27	3.28	2.92	2.86	2.73	3.53	2.88	2.80	2.75
25	2.91	3.35	3.03	3.23	3.12	2.91	3.18	2.73	2.95	2.76	2.80	2.75
26	2.91	3.23	3.05	3.22	3.02	2.92	3.16	2.72	2.82	2.74	2.80	2.75
27	2.89	3.25	3.06	3.20	2.98	2.94	4.37	2.75	2.78	2.73	2.76	2.74
28	2.89	3.94	3.05	3.20	2.96	2.95	3.95	3.03	2.74	3.30	2.75	2.74
29	2.90	3.63	3.05	5.10	---	2.98	3.15	2.93	2.73	3.58	2.76	2.74
30	2.91	3.30	3.05	7.68	---	5.59	2.94	2.81	2.73	3.00	2.75	2.74
31	2.92	---	3.05	4.56	---	3.63	---	3.13	---	2.84	2.75	---
MAX	6.47	11.14	6.96	7.68	9.58	7.59	4.37	4.08	5.42	3.58	3.60	3.94
MIN	2.87	2.90	3.00	3.05	2.96	2.91	2.86	2.72	2.70	2.71	2.72	2.74

MISSISSIPPI RIVER DELTA

07378500 AMITE RIVER NEAR DENHAM SPRINGS, LA

LOCATION.--Lat 30°27'50", long 90°59'25", in sec.2, T.7 S., R.2 E., St. Helena Meridian, East Baton Rouge-Livingston Parish line, Hydrologic Unit 08070202, on downstream side of bridge on U.S. Highway 190, 1,000 ft downstream from Comite River, 2.3 mi southwest of town of Denham Springs, and 15 mi east of Baton Rouge.

DRAINAGE AREA.--1,280 mi².

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

REVISED RECORDS.--WSP 1920: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is National Geodetic Vertical Datum of 1929. Sept. 1, 1938, to Aug. 8, 1939, nonrecording gage at same site. Prior to Oct. 1, 1977, at datum 3.87 ft higher. Water-stage recorder for Amite River at 4-H Camp, near Denham Springs (station 07378510) used as auxiliary gage for this station from October 1945 to September 1983.

REMARKS.--Estimated daily discharge. Records fair. Since 1957, considerable flow from 46 mi² diverted from basin. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--52 years, 2.076 ft³/s, 22.02 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 112,000 ft³/s, Apr. 8, 1983, elevation, 41.50 ft, from flood-mark, present datum; minimum daily discharge, 271 ft³/s, Oct. 17, 18, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 12,000 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Elevation (ft)	Date	Time	Discharge (ft ³ /s)	Elevation (ft)
Nov. 8	0836	14,700	26.44	Jan. 27	0630	*96,700	*39.88
Dec. 9	1339	15,900	26.85	Feb. 18	1230	30,600	30.07
Jan. 1	2300	12,800	25.71	Feb. 23	1730	13,600	26.06
Jan. 8	1200	15,300	26.64	Mar. 3	1730	15,000	26.55
Jan. 20	0600	16,900	27.15				

Minimum discharge, 441 ft³/s, Sept. 30, elevation, 10.85 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4090	592	911	12300	5420	2370	2090	1160	3910	835	836	465
2	2590	803	843	12300	3390	9160	1780	937	7160	662	744	468
3	1640	689	803	8400	2870	14100	2290	837	8320	638	768	482
4	1080	607	772	6650	6530	12800	1980	786	5260	664	682	473
5	888	589	752	14000	9330	8660	1350	755	2520	781	704	504
6	795	584	1120	13400	6410	4270	1160	728	2080	648	645	462
7	741	3310	4410	13100	4310	2740	1070	710	1570	619	741	454
8	734	13700	10200	15100	3470	2350	990	699	1820	599	945	456
9	696	10100	15300	14000	4280	2130	948	1320	1130	652	729	457
10	662	4150	12900	11000	8100	2090	939	1560	1020	702	599	488
11	647	1700	7740	6060	11200	1870	1340	1530	975	883	e570	686
12	638	1180	3770	3060	11600	1740	1400	1110	1300	990	e550	823
13	632	998	3610	2320	8350	1720	1190	906	1290	1240	e540	771
14	625	1520	2770	1970	4000	1680	1060	947	1100	968	e530	1050
15	625	2160	2060	1750	3600	1730	1240	980	969	813	e510	753
16	631	3790	1730	1600	10100	4030	1280	1210	916	694	e500	700
17	2040	2510	1480	1500	20000	3910	1070	986	846	672	490	673
18	4300	1560	1340	2250	29400	2650	949	855	790	684	488	546
19	1810	1150	1340	12000	23400	2000	883	808	756	659	486	698
20	980	984	1500	16300	14300	1690	847	777	721	655	496	712
21	856	906	1380	14000	8850	1510	826	723	705	649	576	567
22	741	1020	1240	11400	10800	1400	811	704	686	661	912	496
23	693	2660	1130	8060	13300	1340	792	778	1820	750	1290	475
24	665	2560	1040	6690	12000	1290	780	1100	1740	830	600	496
25	645	1620	991	23300	8170	1250	783	946	1460	679	559	476
26	630	1220	955	67000	4080	1200	870	795	972	642	542	455
27	618	1050	938	79600	2770	1160	1170	713	930	615	512	451
28	609	1220	928	35700	2380	1140	1630	810	948	609	496	448
29	603	1260	1530	14600	---	1160	1710	3620	825	767	483	445
30	596	1040	4620	12000	---	3230	1530	3670	839	617	474	443
31	590	---	9700	9400	---	3010	---	1940	---	606	467	---
TOTAL	34090	67232	99803	450810	252410	101380	36758	35400	55378	22483	19464	16873
MEAN	1100	2241	3219	14540	9015	3270	1225	1142	1846	725	628	562
MAX	4300	13700	15300	79600	29400	14100	2290	3670	8320	1240	1290	1050
MIN	590	584	752	1500	2380	1140	780	699	686	599	467	443
CFSM	.86	1.75	2.52	11.4	7.04	2.55	.96	.89	1.44	.57	.49	.44
IN.	.99	1.95	2.90	13.10	7.34	2.95	1.07	1.03	1.61	.65	.57	.49
CAL YR 1989	TOTAL 1031077		MEAN 2825		MAX 27500		MIN 493		CFSM 2.21		IN. 29.97	
WTR YR 1990	TOTAL 1192081		MEAN 3266		MAX 79600		MIN 443		CFSM 2.55		IN. 34.64	

e Estimated.

MISSISSIPPI RIVER DELTA

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07378500 AMITE RIVER NEAR DENHAM SPRINGS, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.92	11.38	12.35	25.50	20.66	15.67	15.31	13.40	18.41	12.27	12.12	10.96
2	16.13	12.02	12.14	25.49	17.69	23.66	14.70	12.80	22.40	11.78	11.85	10.97
3	14.10	11.68	12.03	23.21	16.70	26.24	15.68	12.51	23.24	11.70	11.92	11.02
4	12.82	11.43	11.93	21.56	21.51	25.70	15.11	12.35	20.33	11.78	11.66	10.99
5	12.28	11.37	11.87	26.19	23.89	23.42	13.85	12.26	15.99	12.12	11.73	11.09
6	12.00	11.35	12.80	25.97	21.77	19.09	13.40	12.18	15.06	11.73	11.55	10.94
7	11.84	15.75	19.21	25.82	19.23	16.43	13.17	12.13	14.00	11.64	11.84	10.91
8	11.82	26.09	24.26	26.57	17.84	15.65	12.95	12.09	14.53	11.58	12.44	10.91
9	11.70	24.23	26.66	26.20	19.25	15.18	12.83	13.75	13.03	11.75	11.80	10.92
10	11.60	18.79	25.72	24.81	22.84	15.09	12.81	14.28	12.78	11.89	11.40	11.04
11	11.55	14.25	22.71	21.22	24.95	14.61	13.81	14.23	12.65	12.40	---	11.66
12	11.52	13.07	18.32	17.06	25.16	14.34	13.97	13.27	13.42	12.63	---	12.09
13	11.51	12.59	18.11	15.59	23.19	14.30	13.47	12.71	13.40	13.19	---	11.93
14	11.48	13.84	16.49	14.85	18.68	14.21	13.14	12.83	12.97	12.51	---	12.73
15	11.48	15.22	15.04	14.35	17.97	14.32	13.60	12.92	12.63	12.06	---	11.87
16	11.50	18.43	14.31	14.02	24.13	18.83	13.69	13.52	12.49	11.70	---	11.71
17	14.69	15.97	13.77	13.80	27.87	18.64	13.16	12.94	12.30	11.63	11.05	11.63
18	19.20	13.94	13.44	15.20	29.87	16.26	12.84	12.56	12.15	11.67	11.04	11.23
19	14.46	12.99	13.44	25.17	28.67	14.90	12.64	12.42	12.05	11.59	11.04	11.70
20	12.54	12.56	13.82	26.96	26.23	14.22	12.54	12.33	11.95	11.58	11.07	11.74
21	12.18	12.33	13.55	26.18	23.56	13.82	12.48	12.17	11.90	11.56	11.33	11.30
22	11.84	12.59	13.22	25.03	24.72	13.58	12.43	12.11	11.85	11.60	12.15	11.07
23	11.69	16.28	12.94	23.02	25.93	13.44	12.38	12.33	14.42	11.87	13.22	11.00
24	11.61	16.07	12.72	21.81	25.35	13.33	12.34	13.25	14.35	12.11	11.40	11.07
25	11.55	14.07	12.58	28.45	23.08	13.23	12.35	12.83	13.76	11.65	11.28	11.00
26	11.50	13.16	12.47	35.88	18.82	13.12	12.61	12.38	12.64	11.54	11.22	10.91
27	11.46	12.73	12.42	37.76	16.49	13.03	13.29	12.14	12.53	11.45	11.12	10.89
28	11.43	13.17	12.40	30.96	15.71	12.96	14.42	12.43	12.58	11.43	11.07	10.88
29	11.41	13.27	13.79	26.39	---	13.02	14.59	17.94	12.24	11.91	11.03	10.87
30	11.39	12.72	19.55	25.37	---	17.36	14.23	18.15	12.28	11.46	11.00	10.86
31	11.37	---	24.03	23.91	---	16.98	---	15.02	---	11.42	10.97	---
MAX	19.20	26.09	26.66	37.76	29.87	26.24	15.68	18.15	23.24	13.19	---	12.73
MIN	11.37	11.35	11.87	13.80	15.71	12.96	12.34	12.09	11.85	11.42	---	10.86

MISSISSIPPI RIVER DELTA

07380101 BAYOU MANCHAC NEAR LITTLE PRAIRIE, LA

LOCATION.--Lat 30°20'25", long 90°55'02", in sec.39, T.8 S., R.3 E., Ascension Parish, Hydrologic Unit 08070202, 4.6 mi northwest of Port Vincent, and 3.0 mi downstream from Clay Cut Bayou, on the right bank 1,000 ft upstream from mouth of Muddy Creek.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--June 1989 to current year (elevations only).

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

REMARKS.--No elevation recorded below 1.05 ft, Oct. 22 to Dec. 23.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 16.83 ft, Jan. 28, 1990 from floodmark; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 16.83 ft, Jan. 28, from floodmark; minimum not determined.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.91			---	---	2.99	2.66	1.84	3.27	1.40	1.39	1.32
2	2.37			---	---	5.40	2.37	1.79	3.47	1.19	1.41	1.89
3	1.91			---	---	5.20	2.22	2.05	3.55	1.08	1.30	1.90
4	1.76			---	---	5.94	1.88	2.18	3.18	1.36	1.15	1.79
5	1.77			---	---	5.74	1.58	1.70	1.98	1.88	1.08	1.74
6	1.81			---	---	4.49	1.47	1.44	1.78	1.56	1.19	1.87
7	1.81			---	---	3.20	1.42	1.70	1.72	1.28	1.35	1.70
8	1.83			---	---	2.99	1.80	1.99	1.92	1.21	1.54	1.55
9	2.04			---	---	3.14	1.98	2.57	1.76	1.40	1.49	1.52
10	2.21			---	---	3.26	1.92	2.32	1.76	1.49	1.33	1.59
11	2.18			---	---	3.03	1.81	2.31	1.71	1.53	1.40	1.76
12	2.24			---	---	2.90	1.57	2.55	1.63	1.69	1.53	2.05
13	2.27			---	---	2.92	1.63	2.43	1.72	1.70	1.56	2.16
14	2.51			---	3.72	2.84	1.84	2.51	1.90	1.26	1.53	2.20
15	2.68			---	3.01	3.15	1.67	2.31	1.79	1.21	1.54	2.11
16	2.64			---	3.78	4.60	1.59	2.09	1.53	1.39	1.55	1.72
17	2.75			---	4.76	4.13	1.52	1.84	1.32	1.68	1.63	1.69
18	3.04			---	7.71	3.49	1.44	1.75	1.21	1.74	1.68	1.92
19	2.09			---	10.61	2.75	1.58	2.07	1.12	1.80	1.57	1.94
20	1.46			---	9.66	2.09	2.25	1.77	1.16	1.88	1.60	1.83
21	1.15			---	7.90	1.71	2.31	1.53	1.30	1.83	1.68	1.79
22				---	7.34	1.70	1.84	1.60	1.34	1.76	1.59	1.62
23				---	6.61	1.71	1.64	1.77	2.61	1.62	1.41	1.40
24			---	---	6.54	1.82	1.72	1.92	2.01	1.32	1.15	1.46
25			---	---	5.96	1.86	2.08	1.99	1.61	1.29	.88	1.48
26			---	---	4.60	1.72	2.45	2.14	1.50	1.48	.84	1.37
27			---	---	3.29	1.59	2.83	2.21	1.39	1.60	1.43	1.31
28			---	---	2.92	1.71	2.83	2.23	1.32	1.83	1.71	1.39
29			---	---	---	1.92	2.38	2.21	1.59	1.58	1.53	1.62
30			---	---	---	3.32	2.05	2.58	1.72	1.51	1.21	2.04
31		---	---	---	---	3.05	---	2.60	---	1.44	.98	---
MAX	---	---	---	---	---	5.94	2.83	2.60	3.55	1.88	1.71	2.20
MIN	---	---	---	---	---	1.59	1.42	1.44	1.12	1.08	.84	1.31

MISSISSIPPI RIVER DELTA

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07380120 AMITE RIVER AT PORT VINCENT, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°19'57", long 90°51'07", in sec.19, T.8 S., R.4 E., Livingston Parish, Hydrologic Unit 08070202, on downstream side of bridge on State Highway 42, 0.1 mi east of intersection of State Highway 42 and 431, 0.2 mi west of intersection of State Highway 42 and 16, 0.5 mi downstream from mouth of Grays Creek.

DRAINAGE AREA.--1.596 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 25, 1983 to Sept. 30, 1984 (elevations only) October 1984 to current year. Prior to Oct. 24, 1983, elevations only in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 25, 1983, operated by Corps of Engineers, same site and location.

REMARKS.--Records poor. No discharge record for periods: Oct. 24, 25, Nov. 5, Jan. 22-25, Feb. 2-5, 7, 8, Apr. 7-16, 20, 21, May 18-27, June 5-22, 28, July 3, July 14 to Aug. 22, Aug. 24 to Sept. 11, and Sept. 16-30. Reverse flow at times during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation, 14.65 ft, Apr. 9, 1983; minimum elevation, -1.04 ft, Jan. 19, 1977.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 69,500 ft³/s, Jan. 28, 1990; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily positive discharge, 69,500 ft³/s, Jan. 28; maximum negative daily discharge, -311 ft, Oct. 12; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3800	92	533	13700	2160	1120	1550	181	2450	995	---	---
2	2690	1070	463	13800	---	3630	1020	39	2010	637	---	---
3	1280	463	466	13500	---	3790	919	-216	1810	---	---	---
4	762	80	347	12200	---	4150	811	4.6	1060	993	---	---
5	409	---	394	12600	---	3960	448	116	---	1790	---	---
6	207	2340	736	14800	199	2650	555	80	---	402	---	---
7	281	2620	6890	14600	---	1320	---	-219	---	553	---	---
8	161	8330	8870	12300	---	962	---	-177	---	783	---	---
9	23	9270	10000	13100	332	882	---	1150	---	479	---	---
10	14	7450	12300	11700	862	1070	---	1430	---	238	---	---
11	-223	2920	11000	9340	1500	898	---	500	---	1130	---	---
12	-311	870	6690	4450	2720	1120	---	403	---	1630	---	1100
13	-172	535	3590	2050	4410	903	---	268	---	2420	---	1010
14	-123	1950	3400	1500	2930	796	---	692	---	---	---	991
15	-170	3570	2290	1140	1850	1150	---	800	---	---	---	909
16	318	6020	1640	831	2660	2980	---	903	---	---	---	---
17	2050	3840	1260	795	4090	2540	510	970	---	---	---	---
18	4940	1980	881	1380	8940	2080	437	---	---	---	---	---
19	3470	1550	929	7060	16100	1700	248	---	---	---	---	---
20	1450	1640	1050	4400	11700	995	---	---	---	---	---	---
21	527	3350	1000	1980	8360	519	---	---	---	---	---	---
22	216	2740	940	---	6760	523	312	---	---	---	---	---
23	177	2710	356	---	6240	535	203	---	2490	---	1380	---
24	---	3110	209	---	6350	552	-107	---	1940	---	---	---
25	---	2760	313	---	5530	635	-24	---	1160	---	---	---
26	314	4530	228	e22500	3540	602	93	---	1130	---	---	---
27	321	3090	230	e58700	1530	431	2600	---	631	---	---	---
28	161	1460	296	e69500	1170	381	2020	1300	---	---	---	---
29	177	1280	1180	e49900	---	326	2030	1280	362	---	---	---
30	212	1030	3290	11100	---	1830	387	899	268	---	---	---
31	278	---	10900	5150	---	1510	---	614	---	---	---	---
TOTAL	---	---	92671	---	---	46540	---	---	---	---	---	---
MEAN	---	---	2989	---	---	1501	---	---	---	---	---	---

e Estimated.

MISSISSIPPI RIVER DELTA

07380120 AMITE RIVER AT PORT VINCENT, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.41	1.30	1.08	3.30	4.24	2.30	2.19	1.72	2.77	1.11	1.34	1.37
2	2.05	1.47	.94	3.19	3.05	3.45	1.98	1.73	2.92	.59	1.33	1.83
3	1.72	1.34	.61	3.08	2.33	3.71	1.71	2.02	2.86	.55	1.11	1.84
4	1.60	1.42	.51	2.81	2.02	4.00	1.33	2.12	2.42	1.40	.91	1.71
5	1.63	1.51	.31	3.08	1.96	3.82	.84	1.54	1.64	1.72	.93	1.67
6	1.70	1.53	.53	3.57	2.23	3.08	.88	1.36	1.61	1.30	1.21	1.81
7	1.71	1.91	1.97	3.85	2.11	2.49	1.17	1.68	1.61	.91	1.35	1.60
8	1.75	2.96	2.78	3.81	1.95	2.52	1.76	1.94	1.70	.86	1.48	1.50
9	1.99	3.26	2.72	3.67	2.33	2.74	1.88	2.37	1.65	1.21	1.41	1.45
10	2.15	2.89	2.93	3.32	2.75	2.72	1.78	2.22	1.67	1.31	1.29	1.50
11	2.12	1.80	2.78	2.61	2.98	2.59	1.57	2.23	1.57	1.35	1.39	1.64
12	2.17	1.54	1.95	1.47	2.95	2.52	1.39	2.47	1.56	1.49	1.50	1.90
13	2.21	1.76	1.06	.92	2.75	2.52	1.53	2.36	1.64	1.42	1.51	2.08
14	2.45	1.98	.91	1.02	2.35	2.51	1.64	2.42	1.83	1.11	1.48	2.10
15	2.62	2.19	.82	1.10	2.29	2.74	1.46	2.20	1.71	1.14	1.49	1.97
16	2.56	2.11	.84	1.28	2.73	3.49	1.39	2.01	1.41	1.39	1.50	1.48
17	2.47	1.55	1.24	1.41	3.14	3.36	1.33	1.72	1.08	1.63	1.59	---
18	2.41	1.36	1.61	1.56	4.79	2.85	1.21	1.73	.78	1.69	1.63	1.85
19	1.47	1.46	1.80	2.47	7.55	2.20	1.54	2.01	.90	1.75	1.49	1.77
20	.43	1.41	1.44	3.10	7.08	1.48	2.20	1.68	1.14	1.83	1.51	1.74
21	.24	1.14	.88	3.72	5.77	1.23	2.27	1.45	1.24	1.77	1.62	1.72
22	.53	1.20	.55	3.53	5.34	1.22	1.72	1.55	1.21	1.70	1.45	1.51
23	.90	1.11	-.25	2.87	4.94	1.26	1.55	1.73	1.67	1.48	1.17	1.29
24	1.06	1.55	-.67	2.37	4.71	1.44	1.67	1.86	1.50	1.21	.51	1.43
25	1.15	1.92	-.68	3.19	4.22	1.53	2.02	1.93	1.28	1.22	.42	1.39
26	1.41	1.83	-.51	5.45	3.30	1.28	2.39	2.08	1.20	1.50	.91	1.28
27	1.45	1.76	-.25	10.62	2.54	1.19	2.68	2.15	1.21	1.58	1.50	1.21
28	1.58	1.65	.09	11.52	2.36	1.44	2.70	2.14	1.27	1.78	1.63	1.35
29	1.59	1.44	.65	9.83	---	1.68	2.28	2.04	1.51	1.51	1.37	1.56
30	1.55	1.26	1.29	7.39	---	2.37	1.93	2.27	1.55	1.47	.81	1.97
31	1.31	---	2.85	5.58	---	2.35	---	2.41	---	1.37	.79	---
MAX	2.62	3.26	2.93	11.52	7.55	4.00	2.70	2.47	2.92	1.83	1.63	---
MIN	.24	1.11	-.68	.92	1.95	1.19	.84	1.36	.78	.55	.42	---

07380120 AMITE RIVER AT PORT VINCENT, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1965, 1967-69, 1976, 1986 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	
OCT 26...	1130	314	101	7.31	20.0	40	35	8.0	0.8	180	K20	
JAN 04...	1415	12200	82	6.85	11.5	100	50	8.3	2.8	460	1800	
APR 04...	1315	811	117	7.14	20.0	50	30	6.9	1.1	1600	310	
JUL 05...	0800	1790	162	7.13	30.0	10	15	6.1	2.2	K380	1300	
DATE		HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 26...	23		6.1	1.9	9.5	2.4	26	5.0	11	0.1	12	63
JAN 04...	20		5.2	1.7	6.5	3.2	19	7.0	8.1	<0.1	7.8	58
APR 04...	31		8.1	2.6	9.0	2.2	32	5.2	11	<0.1	8.3	79
JUL 05...	33		8.8	2.7	18	2.0	38	4.2	27	<0.1	11	93
DATE		SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 26...	64	0.01		0.29	0.11	0.12	0.7	0.19	0.06	0.07	50	<1
JAN 04...	51	<0.01		0.18	0.11	0.09	0.7	0.14	0.05	0.06	130	<1
APR 04...	68	0.02		0.20	0.17	0.15	0.7	0.21	0.09	0.10	210	1
JUL 05...	91	0.01		0.10	0.11	0.08	0.5	0.17	0.09	0.09	40	2

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

MISSISSIPPI RIVER DELTA

07380120 AMITE RIVER AT PORT VINCENT, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 26...	39	<0.5	<1	1	<3	5	240	1	<4	280	<0.1
JAN 04...	43	<0.5	<1	<1	<3	<10	190	<10	<4	79	<0.1
APR 04...	43	<0.5	<1	<1	3	1	280	1	<4	72	<0.1
JUL 05...	44	<0.5	1	<1	<3	3	180	2	<4	71	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 26...	<10	16	<1	<1	41	<6	100	23	19	100
JAN 04...	<10	<10	<1	<1	34	<6	11	135	4450	97
APR 04...	<10	2	<1	<1	50	<6	<3	43	94	100
JUL 05...	<10	3	<1	<1	56	<6	10	54	261	95

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

197

07380230 PASS MANCHAC NEAR PONTCHATOULA, LA

LOCATION.--Lat 30°16'53", long 90°24'01", T.9 S., R.8 E., Tangipahoa Parish, Hydrologic Unit 08070204.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1990 to September 1990.

CHLORIDE: July 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										34.0	38.0	---
2										34.0	37.0	---
3										34.0	37.0	---
4										36.0	37.0	---
5										36.0	37.0	37.0
6										36.0	37.0	37.0
7										36.0	37.0	37.0
8										36.0	37.0	37.0
9										36.0	36.0	37.0
10										36.0	---	37.0
11										36.0	35.0	36.0
12										36.0	35.0	34.0
13										35.0	35.0	34.0
14										35.0	35.0	34.0
15										35.0	35.0	34.0
16										35.0	35.0	34.0
17										35.0	34.0	34.0
18										34.0	35.0	34.0
19										34.0	35.0	36.0
20										34.0	35.0	36.0
21										37.0	35.0	36.0
22										36.0	35.0	36.0
23										36.0	35.0	36.0
24										36.0	36.0	36.0
25										36.0	36.0	35.0
26										36.0	36.0	33.0
27										37.0	36.0	33.0
28										37.0	36.0	33.0
29										38.0	---	34.0
30										38.0	---	34.0
31										36.0	---	---
MAX										38.0	38.0	37.0
MIN										34.0	34.0	33.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07380230 PASS MANCHAC NEAR PONTCHATOULA, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										130	140	---
2										130	280	---
3										300	130	---
4										290	260	---
5										300	290	410
6										190	280	500
7										150	270	400
8										160	280	400
9										300	280	400
10										200	120	350
11										250	140	380
12										280	200	360
13										220	190	400
14										130	220	400
15										130	260	360
16										150	300	410
17										160	280	400
18										180	290	550
19										250	280	550
20										270	370	340
21										270	320	310
22										270	200	300
23										150	280	320
24										140	200	320
25										160	110	600
26										270	420	600
27										210	280	460
28										330	210	480
29										280	540	---
30										160	530	---
31										130	---	---
MAX										330	420	600
MIN										130	110	300

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

199

301300089493000 LAKE PONTCHARTRAIN AT NORTH SHORE, NEAR SLIDELL, LA

LOCATION.--Lat 30°13'00", long 89°49'30", T.10 S., R.14 E., Orleans Parish, Hydrologic Unit 08090202, at bridge on U.S. Highway 11, 5.5 mi southwest of Slidell.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975, 1981 to September 1984, July 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1984, July 1990 to September 1990.

CHLORIDE: October 1974 to September 1984, July 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.0°C July 9, 15, 16, 17, 1980; minimum daily, 3.0°C Jan. 3, 1979.

CHLORIDE: Maximum daily, 8,500 mg/L Oct. 14, 1981; minimum daily, 140 mg/L June 20, July 8, 22, 1983.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	23.0	18.0
2										---	22.0	18.0
3										---	23.0	18.0
4										---	24.0	28.0
5										---	23.0	27.0
6										---	26.0	28.5
7										---	22.0	29.0
8										---	22.0	29.0
9										---	20.0	29.0
10										---	19.0	28.0
11										---	21.0	28.0
12										---	20.0	27.0
13										---	20.0	28.5
14										---	20.0	28.0
15										---	21.0	28.5
16										---	20.0	28.5
17										---	22.0	28.0
18										---	22.0	27.0
19										---	22.0	27.0
20										---	20.0	26.5
21										---	21.0	26.5
22										---	21.0	25.5
23										---	21.0	25.5
24										23.0	20.0	20.5
25										24.0	19.0	22.0
26										21.0	20.0	24.0
27										27.0	24.0	24.5
28										28.0	27.0	24.0
29										27.0	27.0	24.0
30										28.0	27.0	24.5
31										24.0	22.0	---
MAX										---	27.0	29.0
MIN										---	19.0	18.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

301300089493000 LAKE PONTCHARTRAIN AT NORTH SHORE, NEAR SLIDELL, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	1200	4800
2										---	1200	4900
3										---	1200	4800
4										---	1200	3100
5										---	1500	3800
6										---	1600	3600
7										---	1200	3500
8										---	1200	3500
9										---	1400	4000
10										---	1500	4000
11										---	2000	4200
12										---	2000	4300
13										---	1800	4200
14										---	1800	4200
15										---	1800	3400
16										---	1900	3500
17										---	1600	3400
18										---	1600	3400
19										---	1600	3400
20										---	1600	3000
21										---	2000	2600
22										---	1700	2600
23										---	1600	2600
24										1500	2800	2700
25										1500	2800	2600
26										950	2800	2700
27										1500	2900	3700
28										1600	1300	3600
29										1700	1300	4200
30										1200	1300	4100
31										1400	5000	---
MAX										---	5000	4900
MIN										---	1300	2600

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

201

295019089411500 BAYOU LA LOUTRE AT ALLUVIAL CITY AT YSCLOSKEY, LA

LOCATION.--Lat 29°50'19", long 89°41'15", T.14 S., R.15 E., St. Bernard Parish, Hydrologic Unit 08090203, 0.2 mi south of Yscloskey.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to September 1984, July 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1979, November 1980 to September 1984, July 1990 to September 1990.

CHLORIDE: October 1974 to September 1984, July 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.0°C July 20, 1977; minimum daily, 0.5°C Jan. 2, 5, 14, 16, 17, 1981, Dec. 24, 1983.

CHLORIDE: Maximum daily 16,000 mg/L June 29, 30, July 1-4, 7-9, 12, 1977, Sept. 6, 1981; minimum daily, 120 mg/L June 12, 18-20, 23, 1983.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	29.5	29.5
2										---	29.5	29.5
3										---	29.5	29.5
4										---	29.5	29.5
5										---	30.5	29.5
6										---	30.5	30.5
7										---	30.5	30.5
8										---	30.5	30.5
9										---	28.0	30.5
10										---	28.0	29.0
11										---	28.0	29.0
12										---	28.0	29.0
13										---	28.5	29.0
14										---	29.5	29.0
15										---	29.5	29.0
16										---	29.5	29.0
17										---	30.5	29.0
18										26.5	30.5	29.0
19										26.5	30.5	29.0
20										26.5	30.5	29.0
21										26.5	30.5	29.0
22										26.5	29.5	29.0
23										28.5	29.5	23.5
24										28.5	29.5	23.5
25										28.5	28.5	23.5
26										---	28.5	29.0
27										29.5	28.5	25.5
28										29.5	28.5	25.5
29										29.5	28.5	25.5
30										29.5	29.5	25.5
31										29.5	29.5	---
MAX										29.5	30.5	30.5
MIN										26.5	28.0	23.5

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

295019089411500 BAYOU LA LOUTRE AT ALLUVIAL CITY AT YSCLOSKEY, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	7500	11000
2										---	7400	9600
3										---	7300	9400
4										---	7500	9400
5										---	7200	9400
6										---	7400	9000
7										---	7600	9000
8										---	6300	11000
9										---	5500	12000
10										---	7000	12000
11										---	7000	12000
12										---	7400	12000
13										---	9500	10000
14										---	10000	9400
15										---	10000	9000
16										---	10000	9000
17										---	10000	8600
18										6600	10000	8600
19										6400	9000	8200
20										6900	8800	8600
21										7400	10000	7500
22										6500	8500	7500
23										6400	7500	7600
24										6200	8000	7800
25										6000	12000	8000
26										---	13000	9000
27										6200	11000	9400
28										6400	12000	10000
29										7000	10000	12000
30										7100	12000	12000
31										7500	11000	---
MAX										7500	13000	12000
MIN										6000	5500	7500

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

203

07381000 BAYOU LAFOURCHE AT THIBODAUX, LA

LOCATION.--Lat 29°47'52", long 90°49'21", in sec.117, T.15 S., R.16 E., Lafourche Parish, Hydrologic Unit 08090301, on downstream side of left pier of drawspan of bridge on State Highway 20 at Thibodaux, and 2.7 mi upstream from Laurel Valley Canal.

PERIOD OF RECORD.--October 1984 to current year. April 1966 to September 1984 (elevations only). Unpublished records, May 1954 to July 1957, available in files of the Louisiana District Office, Baton Rouge, La.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--No estimated daily discharges. Records fair. Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during heavy runoff. Artificial control located about 1,000 ft downstream since Nov. 5, 1968. About 5.1 ft³/s is diverted daily from the stream above weir for city of Thibodaux water supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.64 ft, Apr. 17, 1973; minimum, 0.82 ft, Dec. 2, 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	93	75	170	126	195	199	122	167	150	98	201
2	109	102	73	88	140	327	198	114	170	144	96	166
3	89	103	77	60	152	262	192	101	203	133	94	130
4	85	112	76	81	182	226	182	97	202	127	114	109
5	80	119	63	169	192	211	169	111	162	131	106	105
6	82	120	147	277	230	208	178	140	151	128	93	103
7	83	279	341	273	215	198	200	143	123	127	88	107
8	88	383	342	218	337	197	248	145	98	127	90	141
9	86	216	170	119	325	202	261	180	86	121	93	184
10	73	109	96	80	172	372	267	158	81	111	94	158
11	53	78	82	67	98	259	269	141	84	109	98	128
12	33	58	137	75	114	200	263	142	85	122	107	127
13	50	77	89	106	151	198	260	216	94	102	105	93
14	91	244	76	137	162	183	248	209	115	84	118	82
15	104	192	79	150	176	206	242	120	100	67	115	103
16	101	193	74	149	195	565	247	82	89	51	101	136
17	128	107	89	149	192	328	242	77	92	64	97	137
18	151	78	139	157	258	187	235	91	96	85	124	101
19	110	70	151	128	361	174	216	119	91	86	162	99
20	98	64	125	219	232	170	169	150	90	86	163	93
21	96	50	114	382	195	165	160	155	91	99	126	104
22	94	54	110	217	333	167	157	130	129	101	120	126
23	83	120	101	127	200	158	166	116	145	108	124	145
24	75	93	77	91	181	193	153	117	154	109	133	139
25	95	75	78	142	187	238	133	119	118	97	144	105
26	93	68	84	130	190	252	144	136	79	92	150	86
27	82	68	97	127	191	246	318	167	93	96	145	96
28	85	142	110	126	187	219	232	191	107	104	155	92
29	94	132	154	172	---	246	151	192	123	114	166	109
30	104	91	147	149	---	371	138	158	142	107	166	137
31	113	---	271	129	---	245	---	155	---	96	194	---
TOTAL	2870	3690	3844	4664	5674	7368	6237	4294	3560	3278	3779	3642
MEAN	92.6	123	124	150	203	238	208	139	119	106	122	121
MAX	162	383	342	382	361	565	318	216	203	150	194	201
MIN	33	50	63	60	98	158	133	77	79	51	88	82

WTR YR 1990 TOTAL 52900 MEAN 145 MAX 565 MIN 33

MISSISSIPPI RIVER DELTA

07381000 BAYOU LAFOURCHE AT THIBODAUX, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.20	4.98	5.01	5.31	5.19	5.30	5.32	5.19	5.31	5.25	5.04	5.32
2	5.04	5.01	5.00	5.06	5.23	5.65	5.31	5.16	5.32	5.23	5.02	5.22
3	4.97	5.02	5.02	4.95	5.26	5.48	5.29	5.12	5.40	5.19	5.01	5.11
4	4.95	5.05	5.02	5.03	5.34	5.39	5.27	5.10	5.40	5.17	5.08	5.04
5	4.93	5.07	4.96	5.27	5.37	5.35	5.23	5.15	5.30	5.18	5.05	5.02
6	4.94	5.07	5.17	5.57	5.46	5.34	5.25	5.24	5.27	5.17	5.01	5.01
7	4.94	5.49	5.71	5.56	5.43	5.31	5.32	5.25	5.19	5.17	4.99	5.03
8	4.96	5.80	5.71	5.43	5.68	5.31	5.45	5.26	5.11	5.17	5.00	5.14
9	4.95	5.43	5.31	5.17	5.64	5.32	5.48	5.35	5.06	5.15	5.00	5.27
10	4.90	5.14	5.09	5.03	5.23	5.75	5.50	5.29	5.05	5.11	5.00	5.19
11	4.82	5.02	5.04	4.98	5.00	5.48	5.50	5.25	5.05	5.09	5.02	5.10
12	4.73	4.94	5.22	5.01	5.05	5.32	5.49	5.25	5.05	5.14	5.05	5.09
13	4.81	5.00	5.06	5.13	5.17	5.31	5.48	5.43	5.08	5.07	5.04	4.98
14	4.97	5.50	5.01	5.23	5.21	5.27	5.45	5.42	5.16	5.01	5.09	4.94
15	5.02	5.37	5.03	5.26	5.25	5.33	5.43	5.18	5.11	4.94	5.08	5.01
16	5.01	5.37	5.01	5.26	5.30	6.17	5.45	5.05	5.07	4.87	5.02	5.13
17	5.09	5.13	5.06	5.26	5.30	5.64	5.43	5.03	5.08	4.93	5.00	5.13
18	5.17	5.02	5.23	5.28	5.47	5.28	5.41	5.08	5.09	5.00	5.09	5.01
19	5.04	4.99	5.26	5.20	5.72	5.24	5.36	5.18	5.06	5.00	5.22	5.00
20	5.00	4.97	5.19	5.41	5.40	5.23	5.23	5.27	5.06	5.00	5.22	4.98
21	4.99	4.91	5.15	5.79	5.29	5.21	5.20	5.28	5.06	5.05	5.09	5.02
22	4.98	4.92	5.14	5.43	5.66	5.22	5.19	5.21	5.19	5.06	5.08	5.09
23	4.94	5.17	5.11	5.19	5.32	5.19	5.22	5.17	5.24	5.08	5.09	5.15
24	4.91	5.08	5.02	5.07	5.26	5.30	5.18	5.17	5.27	5.08	5.12	5.13
25	4.99	5.01	5.02	5.23	5.28	5.42	5.12	5.18	5.16	5.04	5.15	5.02
26	4.98	4.99	5.05	5.21	5.29	5.46	5.15	5.23	5.01	5.02	5.17	4.95
27	4.94	4.98	5.10	5.20	5.29	5.44	5.61	5.31	5.06	5.03	5.15	4.99
28	4.95	5.22	5.14	5.19	5.28	5.37	5.47	5.37	5.11	5.06	5.18	4.97
29	4.98	5.21	5.27	5.32	---	5.44	5.27	5.38	5.16	5.09	5.22	5.04
30	5.02	5.07	5.25	5.26	---	5.75	5.23	5.29	5.22	5.07	5.22	5.13
31	5.05	---	5.56	5.20	---	5.44	---	5.28	---	5.03	5.30	---
MAX	5.20	5.80	5.71	5.79	5.72	6.17	5.61	5.43	5.40	5.25	5.30	5.32
MIN	4.73	4.91	4.96	4.95	5.00	5.19	5.12	5.03	5.01	4.87	4.99	4.94

07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA

LOCATION.--Lat 29°34'20", long 90°23'02", T.17 S., R.20 E., Lafourche Parish, Hydrologic Unit 08090301, at intersection with Intracoastal Waterway and at mile 35.3 (WHL).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1974 to September 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1979, October 1980 to September 1984, June 1990 to September 1990.

CHLORIDE: October 1974 to September 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Flow direction is dependent upon tide and upon wind velocity. Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.5°C July 28, 29, 1977; minimum daily, 6.0°C Jan. 19, 20, 1977, Jan. 20-23, 1978, Jan 1-3, 1984.

CHLORIDE: Maximum daily, 6,700 mg/L Oct. 25, 1976; minimum daily, 16 mg/L May 7, 1983

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	31.0	32.0	31.0
2									---	31.0	32.0	31.0
3									---	31.0	31.0	31.0
4									---	31.0	31.0	31.0
5									---	30.0	32.0	31.0
6									---	30.0	32.0	31.0
7									---	30.0	31.0	31.0
8									---	31.0	31.0	31.0
9									---	31.0	30.0	31.0
10									---	31.0	30.0	31.0
11									---	31.0	30.0	31.0
12									---	31.0	30.0	30.0
13									---	31.0	30.0	29.0
14									---	31.0	30.0	29.0
15									---	30.0	30.0	29.0
16									---	30.0	31.0	30.0
17									---	29.0	31.0	30.0
18									---	29.0	31.0	30.0
19									---	29.0	31.0	30.0
20									---	30.0	31.0	30.0
21									---	30.0	31.0	30.0
22									---	30.0	30.0	30.0
23									---	30.0	30.0	30.0
24									---	30.0	30.0	28.0
25									---	30.0	30.0	26.0
26									---	31.0	31.0	25.0
27									---	31.0	31.0	25.0
28									30.0	31.0	---	26.0
29									30.0	31.0	31.0	26.0
30									30.0	31.0	31.0	26.0
31									---	31.0	31.0	---
MAX									---	31.0	32.0	31.0
MIN									---	29.0	30.0	25.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	34	31	130
2									---	31	31	140
3									---	52	35	72
4									---	30	32	81
5									---	30	30	46
6									---	35	29	50
7									---	35	33	440
8									---	68	29	420
9									---	49	31	44
10									---	34	41	42
11									---	30	44	57
12									---	31	46	46
13									---	33	46	54
14									---	32	36	66
15									---	34	62	50
16									---	34	75	43
17									---	37	240	42
18									---	34	770	41
19									---	34	780	38
20									---	32	760	41
21									---	37	480	41
22									---	38	490	39
23									---	35	470	31
24									---	36	190	31
25									---	38	260	34
26									---	30	310	65
27									---	35	320	66
28									28	28	---	42
29									28	27	100	46
30									26	---	66	99
31									---	30	66	---
MAX									---	68	780	440
MIN									---	27	29	31

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

207

292245090123200 BAYOU LAFOURCHE AT GALLIANO, LA

LOCATION.--29°22'45", long 90°12'32", T.19 S., R.9 E., Lafourche Parish, Hydrologic Unit 08090301, at Galliano.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to July 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1978, October 1980 to July 1984, June 1990 to September 1990.

CHLORIDE: October 1974 to July 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 35.0°C July 30, Aug. 23, 25-27, 1990; minimum daily, 0.5°C Dec. 22-31, 1983, Jan. 1, 1984.

CHLORIDE: Maximum daily, 12.000 mg/L Mar. 30, 1977, Jan 26, 1981; minimum daily, 10 mg/L Apr. 15, 21, 1980.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	31.0	33.0
2										---	30.0	30.0
3										30.5	29.0	28.0
4										30.0	31.0	30.0
5										30.0	30.0	30.0
6										---	29.0	29.0
7										30.0	28.0	26.0
8										---	---	24.0
9										30.5	31.0	25.0
10										---	30.0	24.0
11										---	28.0	27.0
12										---	30.0	24.0
13										---	28.0	25.0
14										30.0	---	26.0
15										---	27.0	25.0
16										---	28.0	26.0
17										---	---	31.0
18										---	29.0	30.0
19										---	30.0	29.0
20										---	32.0	32.0
21										---	30.0	---
22										---	31.0	32.0
23										30.5	35.0	30.0
24										30.0	34.0	---
25										31.0	35.0	28.0
26										34.0	35.0	---
27										33.0	35.0	---
28										30.0	33.0	---
29										33.0	27.0	---
30										35.0	29.0	---
31										33.0	27.0	---
MAX										---	35.0	---
MIN										---	27.0	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

292245090123200 BAYOU LAFOURCHE AT GALLIANO, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										27	43	2200
2										29	44	3600
3										46	43	4000
4										48	39	5400
5										44	46	4100
6										51	44	5800
7										36	45	3600
8										39	45	3700
9										33	45	3600
10										33	5800	3600
11										34	5700	3400
12										45	5800	2500
13										44	5700	2300
14										45	7000	1800
15										45	8600	1500
16										46	6000	750
17										44	8500	240
18										52	8500	240
19										52	9600	240
20										49	6900	150
21										170	6800	220
22										110	6600	300
23										38	5600	140
24										38	3400	240
25										35	950	1300
26										38	950	2400
27										43	1800	2200
28										41	5400	2300
29										43	1800	3200
30										29	1700	5300
31										25	1700	---
MAX										170	9600	5800
MIN										25	39	140

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

209

293150090241000 BAYOU BLUE ONE MILE ABOVE GRAND BAYOU CANAL, NEAR LAROSE, LA

LOCATION.--Lat 29°31'15", long 90°24'10", T.18 S., R.20 E., Lafourche Parish, Hydrologic Unit 08090302.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

CHLORIDE: June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									62	35	31	40
2									30	34	35	42
3									34	35	32	37
4									35	39	63	38
5									28	45	34	38
6									30	46	37	37
7									32	31	33	38
8									33	34	73	38
9									27	44	62	38
10									32	37	73	38
11									30	36	57	42
12									32	61	33	40
13									28	70	31	40
14									30	51	44	40
15									30	33	41	40
16									32	33	41	39
17									28	32	41	41
18									33	38	42	40
19									34	31	53	39
20									33	38	34	43
21									33	30	40	39
22									34	31	42	38
23									36	34	42	39
24									34	32	42	40
25									33	30	45	45
26									35	32	49	47
27									34	34	43	48
28									37	32	37	46
29									32	42	38	45
30									34	29	39	47
31									---	34	42	---
MAX									62	70	73	48
MIN									27	29	31	37

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

293313090360500 BAYOU TERREBONNE NEAR BOURG, LA

LOCATION.--Lat 29°33'13", long 90°36'05", T.17 S., R.18 E., Terrebonne Parish, Hydrologic Unit 08090302, 0.2 mi downstream of Company Canal, at Bourg.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to September 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, March 1980 to September 1984, June 1990 to September 1990.

CHLORIDE-SURFACE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1990.

CHLORIDE-10 FT DEPTH: October 1975 to November 1978, November 1979 to September 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Samples collected at the water surface and at a 10-ft depth.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.0°C July 4-5, 1978, July 23, 1981; minimum daily, 3.0°C Jan. 15, 1978.

CHLORIDE-SURFACE: Maximum observed, 7,500 mg/L Mar. 30, 1977; minimum daily, 14 mg/L May 31, 1975.

CHLORIDE-10 FT DEPTH: Maximum daily, 7,700 mg/L May 19, 1981; minimum daily, 14 mg/L Mar. 5, 1978.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									28.0	29.0	30.0	30.0
2									28.0	29.0	30.0	30.0
3									27.0	30.0	29.0	30.0
4									27.0	30.0	29.0	30.0
5									27.0	30.0	29.0	29.0
6									28.0	30.0	30.0	29.0
7									28.0	29.0	30.0	29.0
8									28.0	29.0	29.0	29.0
9									28.0	29.0	30.0	29.0
10									28.0	29.0	30.0	30.0
11									28.0	29.0	29.0	30.0
12									28.0	29.0	29.0	30.0
13									28.0	29.0	29.0	30.0
14									27.0	29.0	30.0	30.0
15									27.0	29.0	29.0	30.0
16									27.0	27.0	29.0	30.0
17									27.0	27.0	29.0	29.0
18									27.0	27.0	29.0	29.0
19									27.0	27.0	29.0	29.0
20									28.0	28.0	29.0	29.0
21									28.0	28.0	29.0	29.0
22									28.0	28.0	29.0	29.0
23									28.0	29.0	29.0	29.0
24									28.0	29.0	30.0	29.0
25									28.0	29.0	30.0	29.0
26									28.0	29.0	30.0	28.0
27									28.0	29.0	29.0	28.0
28									28.0	29.0	29.0	26.0
29									28.0	29.0	29.0	26.0
30									28.0	29.0	29.0	26.0
31									---	29.0	30.0	---
MAX									28.0	30.0	30.0	30.0
MIN									27.0	27.0	29.0	26.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

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293313090360500 BAYOU TERREBONNE NEAR BOURG, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									68	35	28	39
2									53	30	27	42
3									34	41	27	45
4									32	33	27	40
5									32	31	27	34
6									32	31	42	37
7									30	32	40	37
8									28	28	41	36
9									30	31	40	41
10									26	30	34	41
11									29	56	30	42
12									55	43	36	33
13									37	40	37	34
14									25	44	50	34
15									28	40	160	33
16									25	32	440	35
17									28	33	1200	44
18									58	34	420	43
19									40	33	410	50
20									30	37	410	44
21									25	34	170	42
22									24	37	49	38
23									26	27	31	48
24									27	28	37	54
25									40	42	38	57
26									55	28	38	39
27									26	29	45	38
28									27	28	46	54
29									36	26	46	70
30									31	27	39	64
31									---	30	41	---
MAX									68	56	1200	70
MIN									24	26	27	33

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH, 10.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									28.0	29.0	30.0	30.0
2									28.0	29.0	30.0	30.0
3									27.0	30.0	29.0	30.0
4									27.0	30.0	29.0	30.0
5									27.0	30.0	29.0	29.0
6									28.0	30.0	30.0	29.0
7									28.0	29.0	30.0	29.0
8									28.0	29.0	29.0	29.0
9									28.0	29.0	30.0	29.0
10									28.0	29.0	30.0	30.0
11									28.0	29.0	29.0	30.0
12									28.0	29.0	29.0	30.0
13									28.0	29.0	29.0	30.0
14									27.0	29.0	30.0	30.0
15									27.0	29.0	29.0	30.0
16									27.0	27.0	29.0	30.0
17									27.0	27.0	29.0	29.0
18									27.0	27.0	29.0	29.0
19									27.0	27.0	29.0	29.0
20									28.0	28.0	29.0	29.0
21									28.0	28.0	29.0	29.0
22									28.0	28.0	29.0	29.0
23									28.0	29.0	29.0	29.0
24									24.0	29.0	30.0	29.0
25									28.0	29.0	30.0	29.0
26									28.0	29.0	30.0	28.0
27									28.0	29.0	29.0	28.0
28									28.0	29.0	29.0	26.0
29									28.0	29.0	29.0	26.0
30									28.0	29.0	29.0	26.0
31									---	29.0	30.0	---
MAX									28.0	30.0	30.0	30.0
MIN									24.0	27.0	29.0	26.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

MISSISSIPPI RIVER DELTA

293313090360500 BAYOU TERREBONNE NEAR BOURG, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 10.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									54	32	26	39
2									60	31	26	41
3									33	48	27	42
4									32	37	26	41
5									32	31	27	33
6									32	29	40	36
7									30	27	44	36
8									29	26	42	36
9									30	28	40	39
10									26	37	33	41
11									29	40	32	38
12									56	40	33	34
13									37	58	38	34
14									25	44	50	34
15									25	38	160	32
16									26	32	430	36
17									51	58	1200	45
18									22	36	400	44
19									33	34	410	44
20									24	34	410	45
21									24	31	170	41
22									33	37	51	45
23									55	30	30	46
24									29	28	39	65
25									28	42	37	49
26									41	28	40	41
27									72	28	45	41
28									69	30	47	62
29									34	27	45	89
30									30	28	38	65
31									---	28	40	---
MAX									72	58	1200	89
MIN									22	26	26	32

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

07381324 BAYOU GRAND CAILLOU AT DULAC, LA

LOCATION.--Lat 29°22'58", long 90°42'55", in sec.86, T.19 S, R.17 E., St. Helena Meridian, Terrebonne Parish, Hydrologic Unit 08090302, on downstream side of Bouquet Bridge, 0.1 mi west of intersection of parish road and Highway 57, 0.8 mi south of Dulac, 16.4 mi south of Houma.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1984 to Sept. 30, 1988 (daily discharges below 6.0 ft stage only, discontinued); January 1989 to current year.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 4.00 ft below National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1985, datum of gage 2.00 ft higher.

REMARKS.--Records fair, no discharge record Oct. 1 to Nov. 30, Dec. 23, 24, and Sept. 12, 13, 29, 30. Flow occasionally reversed as a result of tide and wind effect.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,640 ft³/s, Oct. 13, 1984; maximum gage height, 8.89 ft, Oct. 28, 1985; maximum negative discharge, -1,470 ft³/s, Oct. 28, 1985; no flow at times each year.

EXTREMES FOR CURRENT PERIOD.--Maximum positive daily discharge, 901 ft³/s, Sept. 14; maximum negative daily discharge, -251 ft³/s, Sept. 20; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	---	134	187	40	58	178	130	-11	-6.4	-40	45
2	118	---	189	128	178	328	224	-16	-8.4	13	-8.3	25
3	---	---	189	69	107	211	221	-13	99	17	-16	-26
4	---	---	78	60	328	165	194	185	100	15	-29	-42
5	---	---	128	109	214	147	112	336	98	21	-56	-29
6	---	---	60	331	182	85	188	330	52	34	-38	-26
7	---	---	139	242	163	73	247	59	76	7.9	-33	-62
8	---	---	398	166	172	67	126	35	50	6.0	-42	-41
9	---	---	221	147	178	89	165	58	40	-25	-36	-65
10	---	---	92	115	241	53	148	137	48	-19	-51	-155
11	---	---	18	121	253	22	220	26	71	-15	9.1	336
12	---	---	298	172	150	103	114	-60	69	-13	54	---
13	---	---	188	196	57	58	72	77	24	9.4	94	---
14	---	---	145	140	-5.9	35	112	117	40	33	75	901
15	---	---	84	58	1.2	381	178	129	5.6	-26	90	539
16	---	---	234	60	434	631	102	89	13	6.6	75	436
17	---	---	201	73	399	418	113	187	8.7	14	91	296
18	---	---	267	69	346	347	100	126	24	-15	75	86
19	---	---	246	26	417	327	-24	42	-3.7	-4.4	46	-65
20	---	---	234	220	243	292	21	33	-4.2	18	5.1	-251
21	---	---	197	231	213	194	92	37	-5.2	1.5	63	-250
22	---	---	216	197	575	150	106	54	37	.63	64	-220
23	---	---	---	172	554	72	37	43	30	34	67	-149
24	---	---	---	100	429	88	-25	19	15	18	83	-202
25	---	---	143	428	357	127	-44	30	38	-3.3	86	-192
26	---	---	143	291	247	143	-84	11	34	1.7	68	-166
27	---	---	139	132	123	138	43	18	32	-29	151	-180
28	---	---	121	110	103	78	78	31	-4.4	37	242	-186
29	---	---	132	161	---	78	133	25	-18	-13	242	---
30	---	---	119	168	---	190	144	-16	-4.4	-41	171	---
31	---	---	231	76	---	218	---	-20	---	-39	61	---
TOTAL	---	---	---	4755	6698.3	5366	3291	2239	945.0	38.63	1562.9	---
MEAN	---	---	---	153	239	173	110	72.2	31.5	1.25	50.4	---

MISSISSIPPI RIVER DELTA

07381324 BAYOU GRAND CAILLOU AT DULAC, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.47	---	3.56	3.47	4.14	4.38	4.64	4.66	5.09	4.34	4.43	4.38
2	4.50	---	3.59	3.48	4.22	4.35	4.57	4.82	5.13	4.25	4.38	4.49
3	---	---	3.34	3.54	4.26	4.15	4.34	5.04	4.90	4.08	4.30	4.57
4	---	---	3.43	3.73	3.89	4.19	4.26	4.87	4.72	4.20	4.21	4.53
5	---	---	3.51	3.71	3.57	4.26	4.31	4.57	4.53	4.32	4.25	4.44
6	---	---	3.81	3.73	3.89	4.42	4.33	4.23	4.59	4.30	4.28	4.66
7	---	---	3.99	3.58	3.90	4.52	3.95	4.48	4.62	4.26	4.33	4.64
8	---	---	3.70	3.48	4.12	4.60	4.25	4.80	4.63	4.14	4.30	4.58
9	---	---	3.15	3.52	4.32	4.67	4.36	5.07	4.65	4.24	4.22	4.55
10	---	---	3.48	3.50	4.27	4.77	4.43	4.70	4.61	4.33	4.18	4.56
11	---	---	3.74	3.42	3.83	4.89	4.12	4.76	4.54	4.35	4.33	4.67
12	---	---	3.63	3.31	3.81	4.92	4.10	5.08	4.46	4.47	4.44	4.94
13	---	---	3.31	3.13	4.01	4.94	4.30	5.02	4.46	4.28	4.55	4.89
14	---	---	3.45	3.37	4.16	5.07	4.38	4.88	4.44	4.01	4.62	4.81
15	---	---	3.56	3.47	4.75	4.93	4.25	4.81	4.55	4.09	4.67	4.69
16	---	---	3.17	3.74	4.45	4.63	4.26	4.82	4.50	4.38	4.71	4.62
17	---	---	3.44	3.80	3.97	4.39	4.22	4.57	4.45	4.41	4.81	4.61
18	---	---	3.58	3.88	4.10	4.39	4.10	4.46	4.32	4.40	4.86	4.57
19	---	---	3.68	3.95	4.08	4.19	4.23	4.63	4.30	4.51	4.79	4.63
20	---	---	3.46	4.08	4.07	3.83	4.59	4.72	4.44	4.62	4.70	4.60
21	---	---	3.33	3.88	4.56	3.93	4.57	4.71	4.52	4.63	4.61	4.65
22	---	---	2.43	3.70	4.86	4.06	4.41	4.51	4.58	4.64	4.53	4.47
23	---	---	---	3.84	4.43	4.09	4.50	4.46	4.53	4.55	4.40	4.19
24	---	---	---	3.93	4.00	4.27	4.63	4.64	4.50	4.39	4.06	4.06
25	---	---	2.67	4.02	3.78	4.31	4.83	4.73	4.43	4.20	3.89	4.20
26	---	---	2.82	3.58	3.91	4.10	4.98	4.84	4.34	4.18	3.99	4.30
27	---	---	3.09	3.84	4.09	4.09	5.02	4.94	4.32	4.27	4.17	4.29
28	---	---	3.25	3.84	4.21	4.35	4.84	4.99	4.30	4.40	4.34	4.35
29	---	---	3.50	3.97	---	4.54	4.83	4.96	4.36	4.38	4.31	---
30	---	---	3.75	3.97	---	4.74	4.78	5.04	4.44	4.37	4.18	---
31	---	---	3.89	3.95	---	4.67	---	5.09	---	4.43	4.23	---
MAX	---	---	---	4.08	4.86	5.07	5.02	5.09	5.13	4.64	4.86	---
MIN	---	---	---	3.13	3.57	3.83	3.95	4.23	4.30	4.01	3.89	---

MISSISSIPPI RIVER DELTA

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292700090420000 BAYOU GRAND CAILLOU NEAR DULAC, LA

LOCATION.--Lat 29°27'00", long 90°42'00", T.19 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, 0.8 mi south of Dulac at bridge.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to September 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1977 to November 1978, March 1980 to September 1984, June 1990 to September 1990.

CHLORIDE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 36.0°C Oct. 10, Nov. 1, 8, 17, 21, 1977, May 25, July 1, 1978; minimum daily, 4.0°C Dec. 25, 31, 1983.

CHLORIDE: Maximum daily, 18,000 mg/L Nov. 2, 1974; minimum daily, 14 mg/L Aug. 6, 1975.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									28.0	32.0	32.0	30.0
2									30.0	32.0	32.0	30.0
3									30.0	32.0	32.0	30.0
4									30.0	30.0	32.0	30.0
5									28.0	30.0	32.0	30.0
6									28.0	30.0	32.0	30.0
7									30.0	30.0	32.0	30.0
8									30.0	30.0	32.0	30.0
9									30.0	30.0	28.0	32.0
10									30.0	30.0	30.0	32.0
11									30.0	30.0	28.0	30.0
12									30.0	30.0	30.0	28.0
13									30.0	30.0	30.0	28.0
14									30.0	28.0	30.0	28.0
15									30.0	30.0	30.0	30.0
16									30.0	28.0	32.0	30.0
17									30.0	28.0	32.0	30.0
18									30.0	28.0	30.0	30.0
19									32.0	28.0	32.0	30.0
20									32.0	30.0	30.0	30.0
21									32.0	30.0	28.0	30.0
22									30.0	30.0	28.0	30.0
23									30.0	30.0	30.0	30.0
24									30.0	30.0	30.0	28.0
25									30.0	32.0	30.0	26.0
26									30.0	32.0	32.0	26.0
27									30.0	32.0	32.0	28.0
28									30.0	32.0	32.0	28.0
29									30.0	32.0	32.0	28.0
30									32.0	32.0	32.0	28.0
31									---	32.0	32.0	---
MAX									32.0	32.0	32.0	32.0
MIN									28.0	28.0	28.0	26.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

292700090420000 BAYOU GRAND CAILLOU NEAR DULAC, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									1400	32	1100	3200
2									3600	48	580	3300
3									1000	41	130	3800
4									110	110	120	3600
5									130	86	90	2400
6									240	260	130	4400
7									130	72	170	6100
8									86	240	190	4400
9									160	65	240	3600
10									72	47	120	4200
11									74	58	3400	6200
12									700	52	3600	2600
13									310	76	4400	2600
14									70	110	5200	2700
15									31	40	5400	1200
16									33	1900	5800	760
17									32	1000	4600	650
18									35	1100	6100	2000
19									50	990	3700	1300
20									100	1700	1700	960
21									1800	410	2800	900
22									380	380	2800	1700
23									230	330	2200	1700
24									60	280	2500	1800
25									150	780	740	3500
26									200	500	650	3600
27									380	520	3100	3500
28									68	3200	4400	4600
29									40	1800	3800	4600
30									30	720	1600	6400
31									---	1700	2800	---
MAX									3600	3200	6100	6400
MIN									30	32	90	650

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

292300090370000 BAYOU PETIT CAILLOU NR BOUDREAU CANAL NEAR DULAC, LA

LOCATION.--Lat 29°23'00", long 90°37'00", T.19 S., R.18 E., Terrebonne Parish, Hydrologic Unit 08090302, 5.7 mi east of Dulac.

DRAINAGE AREA.--Indeterminate.

PERIOD OF DAILY RECORD.--Water years 1975 to September 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, November 1979 to September 1984, June 1990 to September 1990.

CHLORIDE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 35.0°C July 4-6, 1978; minimum daily, 3.5°C Jan. 20, 1977.

CHLORIDE: Maximum daily, 9,600 mg/L Mar. 30, Oct. 26, 1981; minimum daily, 12 mg/L Aug. 2, 12, 1975.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									27.0	30.0	31.0	29.0
2									27.0	30.0	31.0	29.0
3									28.0	29.0	32.0	29.0
4									28.0	29.0	32.0	28.0
5									29.0	29.0	32.0	28.0
6									29.0	29.0	32.0	29.0
7									---	30.0	32.0	29.0
8									29.0	30.0	27.0	30.0
9									28.5	30.0	27.0	30.0
10									28.5	30.0	25.0	30.0
11									29.0	30.0	28.0	30.0
12									30.0	30.0	28.0	27.0
13									30.0	30.0	28.0	27.0
14									30.0	27.0	29.0	28.0
15									29.0	27.0	29.0	28.0
16									30.0	27.0	29.0	28.0
17									30.0	28.0	30.0	28.0
18									30.0	28.0	30.0	28.0
19									30.0	28.0	29.0	30.0
20									30.0	28.0	29.0	30.0
21									30.0	28.0	29.0	30.0
22									30.0	28.0	29.0	30.0
23									29.0	28.0	29.0	27.0
24									29.0	28.0	28.0	27.0
25									29.0	30.0	30.0	27.0
26									29.0	30.0	30.0	26.0
27									30.0	30.0	30.0	26.0
28									29.0	30.0	30.0	26.0
29									29.0	30.0	30.0	26.0
30									29.0	30.0	30.0	26.0
31									---	30.0	30.0	---
MAX									30.0	30.0	32.0	30.0
MIN									27.0	27.0	25.0	26.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

292300090370000 BAYOU PETIT CAILLOU NR BOUDREAUX CANAL NEAR DULAC, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									6000	2100	2000	2300
2									5800	2100	2000	2800
3									2600	1500	1800	2800
4									2100	1500	1800	1500
5									2400	1500	1700	1500
6									2600	1500	640	2800
7									2200	2100	600	2700
8									2500	2000	600	3600
9									2700	2000	680	3700
10									2400	2100	1700	3600
11									1600	2000	2100	2600
12									2300	1700	3100	2600
13									1100	1800	3100	2600
14									1200	1800	2800	940
15									2300	1800	2700	1100
16									2300	2000	2700	940
17									2100	2100	3100	950
18									2200	2100	3100	940
19									2200	2100	2600	1800
20									2100	2100	1600	1800
21									2200	2100	1600	1800
22									2100	2100	1600	2000
23									2100	1000	1400	1700
24									210	1000	1500	1700
25									210	1100	2400	2500
26									210	1100	2400	3100
27									210	1100	2500	3100
28									1800	1100	1200	3100
29									1000	1000	1300	3100
30									1500	1200	1300	3100
31									---	1200	1400	---
MAX									6000	2100	3100	3700
MIN									210	1000	600	940

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

07381327 HOUMA NAVIGATION CANAL AT CROZIER, LA

LOCATION.--29°32'22", long 90°42'16", in lot 15, T.8 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, on right bank of canal and 0.8 mi east of Crozier.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1966, 1975 to September 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1978, October 1980 to September 1984.

CHLORIDE: October 1974 to September 1975, October 1976 to October 1978, November 1979 to September 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 38.0°C on Aug. 21, 1983; minimum daily, 7.0°C Jan. 20-23, 1978.

CHLORIDE: Maximum daily, 14,000 mg/L Sept. 23, 1984; minimum daily, 15 mg/L Apr. 25, 30, May 5, 11, 14, 31, 1980.

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									32	24	24	30
2									28	27	25	29
3									29	27	24	28
4									27	27	23	30
5									27	26	24	28
6									22	28	24	29
7									26	24	30	28
8									27	23	29	28
9									25	28	29	28
10									26	31	26	29
11									25	26	27	29
12									24	29	27	28
13									26	26	27	26
14									25	24	27	26
15									23	30	27	29
16									25	30	26	27
17									26	31	25	30
18									22	33	25	29
19									25	28	24	33
20									22	28	27	33
21									53	28	26	34
22									35	24	26	33
23									37	23	26	32
24									34	22	29	32
25									39	23	30	40
26									22	28	31	40
27									23	29	31	36
28									24	30	34	36
29									27	27	34	35
30									26	28	31	36
31									---	25	29	---
MAX									53	33	34	40
MIN									22	23	23	26

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07381330 INTRACOASTAL WATERWAY AT HOUMA, LA

LOCATION.--Lat 29°35'55", long 90°42'36", in sec.8, T.17 S., R.17 E., Terrebonne Parish, Hydrologic Unit 08090302, at bridge on State Highway 24 at Houma.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1960, 1978 to September 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1981 to September 1984.

CHLORIDE: October 1980 to September 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CHLORIDE: Maximum daily, 8,100 mg/L Nov. 18, 1981; minimum daily, 15 mg/L June 27, 1983.

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									34	24	31	30
2									31	24	25	30
3									29	66	31	29
4									28	58	26	30
5									27	60	26	31
6									28	47	27	29
7									26	54	30	27
8									24	57	31	30
9									26	42	30	27
10									24	51	28	30
11									24	29	39	28
12									23	27	33	25
13									24	25	29	25
14									24	26	29	26
15									26	78	27	27
16									24	78	26	26
17									22	30	27	27
18									22	30	25	27
19									28	30	25	31
20									34	28	24	36
21									28	28	28	31
22									29	22	25	34
23									20	21	27	31
24									22	21	28	34
25									34	21	30	36
26									33	25	31	62
27									33	26	30	36
28									35	26	34	53
29									36	29	31	35
30									38	28	32	35
31									---	33	32	---
MAX									38	78	39	62
MIN									20	21	24	25

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

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07381440 BAYOU GROSSE TETE AT ROSEDALE, LA

LOCATION.--Lat 30°26'33", long 91°27'06", in sec.27, T.7 S., R.10 E., St. Helena Meridian, Iberville Parish, Hydrologic Unit 08070300, on downstream side of bridge on Highway 76, in the Town of Rosedale, 2.1 mi north of Interstate 10, 2.5 mi north of Grosse Tete.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1983 to current year. Prior to Oct. 1, 1983, gage heights only, in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is National Geodetic Vertical Datum of 1929. Reverse flow at times during the year.

REMARKS.--Estimated daily discharges. Records poor. No velocity record: Jan. 4-10, 21-29.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 5,170 ft³/s, Feb. 19, 1988, maximum elevation 12.11 ft, Oct. 27, 1983; maximum negative discharge, -280 ft³/s, June 16, 1985, no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,800 ft³/s, Jan. 26, 29; minimum daily discharge, 5.3 ft³/s, Dec. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	11	48	603	1320	391	292	81	118	49	32	13
2	16	11	43	777	1260	807	218	71	116	47	36	13
3	20	12	37	676	1240	780	185	69	88	43	36	14
4	19	14	30	e720	1340	632	150	71	83	66	33	14
5	19	12	30	e1250	1260	472	132	62	74	52	34	13
6	14	16	39	e1270	1190	371	124	61	71	50	28	14
7	10	29	235	e1350	1150	319	106	61	72	52	31	16
8	22	195	581	e1400	1100	254	101	62	70	51	40	15
9	19	173	589	e1300	1120	212	100	75	68	56	35	15
10	15	101	467	e1100	1230	183	98	77	68	63	22	15
11	15	63	369	1110	1240	215	119	66	90	50	14	17
12	14	46	538	825	1150	173	110	56	114	48	15	20
13	14	38	405	801	1070	198	106	56	103	46	12	17
14	13	37	358	666	999	204	101	55	74	44	12	17
15	13	90	260	513	963	194	123	59	61	40	14	15
16	14	254	204	363	1080	272	117	58	62	39	18	16
17	22	161	168	232	1040	376	107	63	59	37	17	14
18	55	90	137	331	1030	316	91	64	53	35	15	14
19	33	66	143	764	1040	252	79	60	46	33	17	13
20	24	53	132	733	968	212	76	58	46	31	21	15
21	19	46	110	e750	862	176	68	58	44	32	24	15
22	14	54	58	e700	927	163	64	62	50	29	23	16
23	12	100	11	e600	972	151	70	54	52	33	22	18
24	11	95	5.6	e800	890	138	67	52	55	34	20	16
25	9.2	65	5.7	e1600	743	126	69	55	48	33	21	14
26	8.0	56	5.3	e1800	590	125	84	54	51	29	17	13
27	8.7	62	5.5	e1700	489	118	84	61	67	29	18	13
28	8.1	64	6.8	e1600	433	112	122	92	71	30	11	14
29	8.8	63	253	e1800	---	109	111	113	52	32	11	14
30	10	56	721	1590	---	299	93	77	52	31	12	14
31	11	---	627	1420	---	411	---	65	---	31	12	---
TOTAL	507.8	2133	6621.9	31144	28696	8761	3367	2028	2078	1275	673	447
MEAN	16.4	71.1	214	1005	1025	283	112	65.4	69.3	41.1	21.7	14.9

e Estimated.

MISSISSIPPI RIVER DELTA

07381440 BAYOU GROSSE TETE AT ROSEDALE, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.11	.47	.72	8.31	10.35	5.16	3.68	2.21	2.57	2.32	.98	.81
2	1.12	.61	.54	7.64	10.02	7.29	3.25	2.15	2.54	2.27	.99	.86
3	1.11	.75	.40	6.53	9.83	8.01	3.09	2.17	2.48	2.26	1.00	1.06
4	.98	.65	.23	7.09	10.15	7.24	2.94	2.18	2.46	2.32	1.01	.92
5	.88	.58	.22	9.60	9.78	6.25	2.80	2.12	2.44	2.27	.97	.79
6	.82	.63	.47	9.83	9.44	5.45	2.70	2.06	2.45	2.20	.85	.92
7	.93	1.91	5.08	10.08	9.17	4.93	2.60	2.00	2.44	2.10	.82	.92
8	1.13	4.27	9.02	10.17	8.94	4.56	2.53	1.97	2.42	2.02	1.20	.91
9	.99	3.24	8.59	9.80	9.13	4.32	2.41	2.16	2.42	2.03	1.27	.85
10	.85	2.42	7.49	9.41	9.69	4.24	2.36	2.17	2.43	2.00	.97	.97
11	.81	1.95	6.15	8.99	9.73	4.15	2.33	2.07	2.50	1.95	.86	1.25
12	.76	1.68	6.21	8.55	9.42	3.98	2.24	2.06	2.58	2.01	.92	1.35
13	.80	1.51	5.73	7.93	9.08	3.84	2.18	2.06	2.58	2.01	.97	1.32
14	.80	1.67	4.52	6.91	8.66	3.70	2.14	2.12	2.50	1.88	.99	1.19
15	.81	2.38	3.44	5.61	8.43	3.69	2.19	2.13	2.48	1.75	1.23	1.19
16	.93	3.55	2.80	4.29	9.07	4.31	2.15	2.13	2.47	1.63	1.28	1.12
17	1.30	2.61	2.24	3.36	9.04	4.89	2.05	2.12	2.46	1.59	1.19	.97
18	1.50	1.89	1.72	3.59	8.82	4.57	1.94	2.10	2.43	1.50	1.06	.90
19	1.32	1.56	1.58	7.34	9.28	4.10	1.90	2.10	2.42	1.44	1.06	.89
20	1.18	1.34	1.41	7.71	8.94	3.78	1.86	2.10	2.40	1.40	1.29	1.04
21	.98	1.20	1.18	8.06	8.43	3.55	1.84	2.11	2.38	1.38	1.30	.96
22	.79	1.21	.87	7.71	8.97	3.38	1.81	2.07	2.41	1.38	1.18	1.03
23	.68	2.14	.40	6.74	8.83	3.23	1.81	2.03	2.56	1.41	1.19	.99
24	.42	1.92	.08	7.82	8.20	3.06	1.82	2.02	2.60	1.44	1.12	.89
25	.28	1.47	.00	10.92	7.36	2.91	1.90	2.01	2.55	1.38	.97	.81
26	.23	1.41	.06	11.19	6.47	2.77	2.12	2.03	2.52	1.26	.96	.84
27	.32	1.42	.02	11.08	5.83	2.64	2.26	2.09	2.54	1.15	.89	.86
28	.24	1.30	.18	10.84	5.43	2.55	2.54	2.24	2.52	1.09	.67	.93
29	.33	1.26	1.62	11.20	---	2.49	2.43	2.36	2.42	1.12	.73	.95
30	.49	1.01	7.30	11.03	---	3.63	2.29	2.27	2.38	1.06	.78	.98
31	.51	---	10.56	10.69	---	4.38	---	2.30	---	1.00	.78	---
MAX	1.50	4.27	10.56	11.20	10.35	8.01	3.68	2.36	2.60	2.32	1.30	1.35
MIN	.23	.47	.00	3.36	5.43	2.49	1.81	1.97	2.38	1.00	.67	.79

310355091411500 OLD RIVER OUTFLOW CHANNEL (KNOX LANDING) SOUTH OF BLACK HAWK, LA

LOCATION.--Lat 31°03'55", long 91°41'15", Concordia Parish, Hydrologic Unit 08040301, at Corps of Engineers discharge range, 1.8 mi above mouth, 5.5 mi west of Old River Control Structure, and 5.6 mi west of Knox Landing.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE.--June 1973 to current year.

REMARKS.--Records for the 1990 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

COOPERATION.--Samples for suspended-sediment analysis are collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 02600.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 646,000 tons Apr. 6, 1978; minimum daily 0.0 tons Nov. 18-30, 1987.

WATER-QUALITY DATA. WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
15...	1045	52000	131	18400	90
29...	1030	161000	451	196000	84
DEC					
06...	1030	197000	366	195000	84
20...	0930	55700	159	23900	95
JAN					
04...	0930	146000	366	144000	94
18...	0930	160000	274	118000	95
24...	1000	250000	396	267000	87
FEB					
06...	1030	95000	145	37200	98
MAR					
06...	0930	299000	267	216000	79
20...	0930	292000	269	212000	88
APR					
04...	1030	161000	269	117000	98
17...	1200	261000	246	173000	91
MAY					
02...	1030	146000	288	114000	95
16...	1000	135000	272	99100	89
30...	1000	108000	209	60900	97
JUN					
12...	1000	93000	238	59800	97
26...	0930	160000	242	105000	86
JUL					
10...	1100	112000	234	70800	97
24...	0930	52000	153	21500	100
AUG					
05...	1115	50000	274	37000	97
07...	1130	53000	176	25200	100
21...	1100	41000	181	20000	97
SEP					
05...	1100	96000	225	58300	81

RED RIVER BASIN

310355091411500 OLD RIVER OUTFLOW CHANNEL (KNOX LANDING) SOUTH OF BLACK HAWK, LA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24000	16000	214000	38000	112000	215000	130000	131000	57000	107000	21000	47000
2	23000	17000	197000	60000	85000	211000	129000	113000	59000	107000	26000	49000
3	24000	16000	197000	89000	70000	207000	128000	106000	47000	109000	28000	52000
4	23000	16000	204000	144000	52000	212000	117000	96000	49000	105000	29000	55000
5	26000	15000	208000	150000	44000	214000	116000	88000	49000	105000	37000	58000
6	28000	15000	194000	146000	37000	215000	117000	88000	55000	93000	30000	63000
7	28000	16000	161000	156000	37000	215000	124000	87000	65000	80000	25000	63000
8	28000	18000	146000	154000	38000	223000	131000	85000	66000	70000	28000	62000
9	27000	15000	129000	149000	41000	224000	130000	71000	61000	71000	25000	64000
10	25000	15000	113000	141000	46000	227000	130000	76000	61000	71000	21000	65000
11	23000	16000	104000	137000	54000	228000	137000	84000	60000	69000	21000	65000
12	23000	16000	87000	126000	56000	226000	149000	87000	60000	62000	22000	64000
13	21000	16000	67000	109000	57000	225000	161000	89000	51000	53000	23000	66000
14	21000	17000	52000	86000	66000	231000	164000	89000	44000	52000	23000	63000
15	20000	18000	41000	84000	70000	225000	174000	90000	51000	48000	23000	60000
16	19000	17000	37000	92000	71000	221000	172000	99000	52000	47000	25000	57000
17	18000	20000	34000	102000	71000	213000	173000	105000	61000	41000	27000	57000
18	17000	29000	30000	118000	80000	211000	190000	103000	61000	38000	25000	58000
19	15000	36000	26000	130000	84000	211000	207000	90000	61000	40000	20000	70000
20	15000	38000	24000	149000	91000	212000	219000	69000	70000	33000	20000	83000
21	15000	38000	22000	180000	106000	214000	223000	68000	79000	32000	20000	91000
22	17000	40000	20000	197000	129000	215000	231000	66000	88000	26000	22000	96000
23	17000	47000	20000	229000	149000	217000	240000	62000	96000	26000	21000	91000
24	16000	55000	14000	267000	163000	215000	246000	61000	106000	22000	22000	93000
25	13000	80000	14000	272000	174000	208000	237000	62000	105000	14000	23000	93000
26	15000	96000	14000	263000	178000	206000	224000	65000	104000	10000	29000	89000
27	15000	120000	11000	252000	182000	202000	205000	65000	117000	11000	29000	90000
28	13000	150000	12000	227000	210000	182000	184000	64000	117000	9000	32000	92000
29	13000	196000	14000	213000	---	164000	163000	62000	111000	15000	36000	86000
30	13000	202000	18000	197000	---	152000	145000	61000	111000	16000	42000	83000
31	14000	---	21000	156000	---	146000	---	59000	---	17000	45000	---
TOTAL	609000	1406000	2445000	4813000	2553000	6487000	5096000	2541000	2174000	1599000	820000	2125000
MEAN	19600	46900	78900	155000	91200	209000	170000	82000	72500	51600	26500	70800
MAX	28000	202000	214000	272000	210000	231000	246000	131000	117000	109000	45000	96000
MIN	13000	15000	11000	38000	37000	146000	116000	59000	44000	9000	20000	47000
WTR YR 1989	TOTAL	32668000		MEAN	89500	MAX	272000	MIN	9000			

MISSISSIPPI RIVER DELTA

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07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA

WATER-QUALITY RECORDS

LOCATION.--Lat 30°58'57", long 91°47'54" in NE 1/4 SW 1/4 sec.7, T.1 S., R.7 E., Louisiana meridian, Avoyelles Parish, Hydrologic Unit 08080101, near right bank on downstream side of Kansas City Southern Railway Co. bridge, 0.4 mi east of town of Simmesport, 0.5 mi upstream from State Highway 1, and 4.9 mi downstream from confluence of Red River and Old River (head of Atchafalaya River).

DRAINAGE AREA.--Approximately 87,570 mi².

PERIOD OF RECORD.--Water years 1952-53, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1975, October 1978 to September 1979.

WATER TEMPERATURES: December 1975 to September 1976, October 1977 to September 1984, May 1990 to September 1990.

CHLORIDE: October 1974 to September 1984, May 1990 to September 1990.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to current year.

REMARKS.--Records for the 1990 water year are not available in time for inclusion in this report. They will be published in a subsequent report. Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

COOPERATION.--Samples for suspended-sediment analysis are collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 03045.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 627 micromhos Nov. 17, 1978; minimum daily, 179 micromhos Feb. 21, 1979.

WATER TEMPERATURES: Maximum daily, 32.0°C July 23, 1981; minimum daily, 2.0°C Jan. 18-20, Feb. 3, 6, 7, 1978, Jan. 15, 1979, Jan. 14, 1982.

CHLORIDE: Maximum daily, 150 mg/L June 9, 13, 14, 1977; minimum daily, 10 mg/L Apr. 16, 17, 1975, Jan. 6, 1983.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,240,000 tons Dec. 15, 1982; minimum daily, 2,000 tons Oct. 3-5, 1976.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	20.0	---	29.0	---
2								---	---	27.0	28.0	---
3								---	---	27.0	28.0	---
4								---	20.5	---	---	28.0
5								---	22.0	27.0	---	28.0
6								---	22.0	---	29.0	28.0
7								17.0	22.0	---	27.0	28.0
8								17.0	22.0	---	26.5	---
9								17.0	---	28.0	25.0	---
10								17.5	---	28.0	26.0	28.0
11								17.5	22.5	27.5	---	28.0
12								---	23.0	28.0	---	28.0
13								---	24.0	29.0	28.0	28.0
14								18.5	23.0	---	28.0	27.0
15								19.0	---	---	28.0	---
16								19.5	---	28.0	28.0	---
17								19.0	---	28.0	29.0	26.0
18								18.5	24.5	26.0	---	27.0
19								---	25.0	27.0	---	27.0
20								---	25.0	28.0	29.0	28.0
21								21.0	25.0	---	28.5	28.0
22								21.0	25.0	---	29.0	---
23								21.0	---	29.0	29.0	---
24								19.5	---	28.0	29.0	---
25								20.0	27.0	27.5	---	23.0
26								---	27.0	29.0	---	24.0
27								---	27.0	29.0	---	24.0
28								---	27.0	---	---	24.0
29								20.0	---	---	28.0	---
30								20.0	---	28.0	28.0	---
31								20.0	---	28.0	28.0	---
MAX								---	---	---	---	---
MIN								---	---	---	---	---

MISSISSIPPI RIVER DELTA

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

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

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

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07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1988 to SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
12...	1115	67000	92	16700	100
25...	1115	46900	114	14500	100
NOV					
08...	1115	53200	79	11300	100
22...	1115	96600	171	44700	98
DEC					
06...	1115	266000	286	205000	94
20...	1115	124000	148	49400	97
JAN					
04...	1115	231000	350	218000	89
20...	1115	325000	238	209000	96
FEB					
03...	1115	284000	209	160000	97
14...	1115	263000	229	162000	91
28...	1115	476000	329	423000	96
MAR					
17...	1115	459000	152	188000	93
28...	1115	378000	136	139000	96
APR					
11...	1115	361000	256	249000	98
25...	1115	371000	132	132000	96
MAY					
09...	1115	216000	298	174000	87
23...	1115	315000	435	370000	96
JUN					
08...	1115	247000	190	127000	97
23...	1115	301000	333	271000	95
JUL					
06...	1115	367000	255	253000	95
21...	1115	287000	167	130000	96
AUG					
01...	1115	179000	162	78200	98
18...	1115	124000	119	39800	84
SEP					
01...	1115	117000	114	36000	93
19...	1115	152000	144	59000	96

MISSISSIPPI RIVER DELTA

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20000	13000	212000	95000	195000	404000	151000	122000	214000	270000	78000	36000
2	20000	14000	227000	126000	178000	384000	160000	111000	197000	270000	78000	39000
3	19000	14000	222000	162000	160000	365000	170000	113000	172000	270000	75000	41000
4	17000	13000	224000	218000	139000	355000	173000	114000	158000	270000	71000	42000
5	18000	13000	205000	234000	134000	343000	181000	115000	142000	266000	70000	44000
6	19000	11000	183000	233000	132000	329000	192000	124000	135000	252000	65000	47000
7	20000	10000	167000	239000	131000	315000	204000	138000	133000	244000	60000	49000
8	20000	11000	---	231000	131000	305000	215000	162000	127000	233000	61000	48000
9	20000	11000	150000	222000	134000	291000	225000	174000	131000	231000	58000	50000
10	19000	12000	136000	207000	139000	277000	235000	184000	139000	227000	56000	50000
11	17000	13000	129000	198000	148000	266000	249000	199000	149000	225000	53000	52000
12	17000	13000	123000	192000	152000	251000	244000	211000	155000	216000	52000	52000
13	14000	16000	106000	182000	154000	238000	241000	222000	155000	201000	49000	55000
14	15000	18000	94000	180000	162000	226000	232000	226000	152000	196000	47000	55000
15	16000	21000	79000	184000	165000	214000	224000	226000	158000	189000	45000	55000
16	16000	21000	70000	188000	165000	203000	212000	239000	165000	181000	43000	52000
17	16000	21000	67000	193000	166000	188000	203000	268000	179000	167000	43000	54000
18	15000	28000	61000	208000	200000	188000	199000	285000	186000	154000	40000	53000
19	14000	36000	54000	205000	208000	186000	193000	335000	194000	150000	36000	59000
20	13000	40000	49000	209000	226000	182000	186000	338000	213000	135000	34000	62000
21	13000	41000	47000	222000	263000	181000	176000	352000	230000	129000	31000	62000
22	13000	45000	45000	228000	304000	179000	170000	366000	250000	124000	32000	62000
23	15000	50000	45000	232000	336000	176000	162000	370000	270000	125000	31000	60000
24	16000	76000	46000	242000	360000	171000	152000	357000	281000	118000	30000	57000
25	14000	86000	48000	249000	379000	161000	132000	344000	270000	108000	30000	53000
26	16000	98000	48000	249000	389000	154000	134000	327000	260000	97000	30000	51000
27	17000	120000	43000	250000	395000	148000	134000	309000	268000	96000	30000	45000
28	15000	142000	44000	245000	422000	139000	134000	289000	274000	89000	31000	43000
29	15000	173000	48000	243000	---	138000	132000	272000	272000	89000	31000	37000
30	13000	189000	64000	239000	---	140000	127000	253000	271000	86000	33000	34000
31	13000	---	70000	216000	---	146000	---	234000	---	80000	35000	---
TOTAL	505000	1369000	3106000	6521000	6067000	7243000	5542000	7379000	5900000	5488000	1458000	1499000
MEAN	16300	45600	104000	210000	217000	234000	185000	238000	197000	177000	47000	50000
MAX	20000	189000	227000	250000	422000	404000	249000	370000	281000	270000	78000	62000
MIN	13000	10000	43000	95000	131000	138000	127000	111000	127000	80000	30000	34000
WTR YR 1989	TOTAL	52077000		MEAN	143000	MAX	422000	MIN	10000			

MISSISSIPPI RIVER DELTA

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07381495 ATCHAFALAYA RIVER AT MELVILLE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°41'26", long 91°44'10", in SW 1/4 NW 1/4 sec.26, T.4 S., R.7 E., St. Helena Meridian, St. Landry-Pointe Coupee Parish line, Hydrologic Unit 08080101, at bridge on Texas and Pacific Railroad in Melville.

DRAINAGE AREA.--93,316 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1979 to September 1981.

WATER TEMPERATURES: May 1979 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 632 micromhos Oct. 8, 1981; minimum daily, 207 micromhos May 21, 1980.

WATER TEMPERATURES: Maximum daily, 32.0 °C July 23, 24, 1981; minimum daily, 5.5 °C Feb. 7, 1980, Jan. 22, 1981.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A temperature of 5.0 °C was observed on Jan. 30, 1985. A specific conductance of 177 microsiemens was observed on Feb. 1, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT												
30...	1230	118000	405	7.78	18.0	5	25	<1	9.1	1.0	28	850
NOV												
13...	1330	--	420	7.91	17.0	15	35	<1	8.7	0.1	16	1400
DEC												
08...	1300	122000	398	7.91	9.5	20	29	<1	11.4	1.6	26	1000
FEB												
01...	1300	--	177	7.33	12.5	60	170	<1	9.5	4.2	44	2400
27...	1015	443000	215	7.46	12.5	40	75	<1	9.5	3.8	36	510
MAR												
26...	1100	--	303	7.62	16.5	40	100	<1	8.6	3.5	37	230
MAY												
03...	1100	296000	318	7.63	22.0	60	49	<1	7.1	1.0	30	K550
23...	1100	--	374	7.28	22.0	20	150	<1	6.3	2.2	42	440
JUN												
22...	1000	--	263	7.48	28.5	30	--	<1	5.6	2.0	34	K380
JUL												
25...	1200	187000	373	7.46	29.0	10	4.5	<1	6.6	0.9	19	K180
AUG												
27...	1100	--	415	7.62	30.0	10	40	<1	6.5	0.8	21	K240
SEP												
21...	1200	126000	439	8.06	31.5	5	17	<1	7.7	1.3	19	K110

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCHI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)
OCT 30...	48	K16	150	41	12	24	3.1	120	57	21	0.2	5.4
NOV 13...	72	48	130	34	12	28	3.7	112	53	29	--	--
DEC 08...	520	250	150	39	12	25	2.9	107	47	28	0.2	6.2
FEB 01...	K100	310	60	17	4.2	11	2.9	46	18	15	--	--
27...	120	160	79	22	5.9	10	2.5	52	24	14	1.3	6.1
MAR 26...	84	100	98	28	6.8	18	2.6	69	38	27	--	--
MAY 03...	K44	K64	100	29	7.7	24	2.4	72	42	29	0.1	5.4
23...	K90	180	120	33	8.7	24	3.0	91	37	35	--	--
JUN 22...	K35	K65	100	29	6.6	12	2.8	82	22	15	--	--
JUL 25...	K60	46	150	41	12	14	3.5	115	38	20	0.3	7.2
AUG 27...	K20	K12	150	42	12	18	3.8	134	39	20	--	--
SEP 21...	44	K6	180	47	14	22	3.5	145	40	23	0.1	8.4
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)
OCT 30...	227	233	85	0.01	<0.01	0.6	0.65	0.04	0.02	0.7	0.4	0.15
NOV 13...	--	227	62	0.01	--	0.6	--	--	--	--	0.32	0.20
DEC 08...	228	227	--	0.03	0.01	0.8	0.80	0.05	0.03	0.7	0.6	0.18
FEB 01...	--	96	338	0.05	--	0.41	--	--	--	--	0.59	0.39
27...	134	123	120	0.06	0.02	0.8	0.78	0.07	0.05	1.2	0.4	0.22
MAR 26...	--	162	241	0.05	--	0.78	--	--	--	--	0.38	0.22
MAY 03...	184	183	152	0.05	<0.01	0.6	0.50	0.07	0.02	0.6	0.5	0.21
23...	--	195	274	0.03	--	0.65	--	--	--	--	0.28	--
JUN 22...	--	137	301	<0.01	--	0.91	--	--	--	--	0.92	0.25
JUL 25...	213	216	146	0.02	0.01	2.3	2.4	0.04	0.06	1.0	0.7	0.20
AUG 27...	--	215	97	0.01	--	1.7	--	--	--	--	0.55	0.23
SEP 21...	240	247	51	<0.01	<0.01	1.6	1.6	--	0.03	0.4	0.4	--

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)
OCT												
30...	0.07	0.05	10	1	1	62	10	<0.5	<1	<1	<1	1
NOV												
13...	--	--	--	3	1	--	<10	<10	<1	<1	--	<10
DEC												
08...	0.06	0.02	--	2	<1	--	<10	<0.5	1	<1	--	3
FEB												
01...	--	--	--	5	<1	--	<10	<10	2	<1	--	12
27...	0.05	0.04	40	1	<1	42	<10	<0.5	<1	<1	<5	9
MAR												
26...	--	--	--	3	<1	--	<10	<10	<1	3	--	<10
MAY												
03...	0.02	0.03	30	2	1	66	<10	<0.5	<1	<1	<1	10
23...	--	--	--	--	<1	--	--	<10	--	<1	--	--
JUN												
22...	--	--	--	3	1	--	<10	<10	<1	<1	--	10
JUL												
25...	0.10	0.07	--	2	2	--	<10	0.6	1	1	--	4
AUG												
27...	--	--	--	3	2	--	<10	<10	<1	<1	--	5
SEP												
21...	0.11	0.09	<10	2	2	79	<10	0.5	<1	2	<1	2
DATE	CHRO- MIUM, HEXA- VALENT, DIS- (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)
OCT												
30...	<1	<3	8	5	5	4	1	13	2	<0.1	<0.1	<10
NOV												
13...	<1	--	8	6	30	5	<1	--	--	<0.1	<0.1	--
DEC												
08...	<1	--	22	4	10	5	<1	--	--	<0.1	<0.1	--
FEB												
01...	<1	--	12	11	100	10	<1	--	--	<0.1	<0.1	--
27...	<1	<3	8	3	97	8	1	<4	28	<0.1	<0.1	<10
MAR												
26...	<1	--	6	6	60	7	<1	--	--	<0.1	<0.1	--
MAY												
03...	<1	<3	11	5	82	9	<1	8	4	<0.1	--	<10
23...	<1	--	--	3	50	--	<1	--	--	<0.1	--	--
JUN												
22...	<1	--	11	4	80	7	<1	--	--	<0.1	<0.1	--
JUL												
25...	<1	--	19	9	13	10	<1	--	--	<0.1	<0.1	--
AUG												
27...	<1	--	6	3	<25	3	<1	--	--	<0.1	<0.1	--
SEP												
21...	3	<3	12	2	4	2	<1	9	1	<0.1	<0.1	<10

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT 30...	5	3	<1	<1	<1	210	<6	20	5	4.3	<0.01
NOV 13...	3	1	<1	<1	--	--	1	30	<10	4.4	<0.01
DEC 08...	4	1	<1	<1	--	--	<1	20	4	4.5	<0.01
FEB 01...	12	2	<1	<1	--	--	2	40	10	10	<0.01
27...	13	1	<1	<1	<1	110	<6	40	20	6.7	<0.01
MAR 26...	8	2	<1	<1	--	--	<1	30	30	8.9	<0.01
MAY 03...	13	3	<1	<1	<1	190	<6	40	<3	8.3	<0.01
23...	--	<1	--	<1	--	--	2	--	<10	8.8	<0.01
JUN 22...	9	<1	<1	<1	--	--	1	40	<10	7.1	<0.01
JUL 25...	6	2	<1	<1	--	--	5	30	9	6.6	<0.01
AUG 27...	4	2	<1	<1	--	--	3	20	<10	5.3	<0.01
SEP 21...	4	2	<1	<1	<1	210	<6	<10	4	4.8	<0.01

DATE	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)
OCT 30...	3	3	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV 13...	<1	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 08...	9	4	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 01...	6	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27...	4	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 26...	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 03...	<1	<1	<0.1	<0.1	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23...	--	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 22...	8	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 25...	4	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 27...	4	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 21...	3	4	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01

< Actual value is known to be less than the value shown.

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	ENDO-SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA-CHLOR, TOTAL (µG/L)	HEPTA-CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA-THION, TOTAL (µG/L)	METH-OXY-CHLOR, TOTAL (µG/L)	METHYL PARA-THION, TOTAL (µG/L)	METHYL TRI-THION, TOTAL (µG/L)	MIREX, TOTAL (µG/L)
OCT 30...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
NOV 13...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
DEC 08...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
FEB 01...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 03...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 22...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 27...	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
30...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	126	40100	88
NOV											
13...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--
DEC											
08...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	95	31300	88
FEB											
01...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--
27...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--
MAR											
26...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--
MAY											
03...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	432	345000	80
23...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--
JUN											
22...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--
JUL											
25...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	160	80800	97
AUG											
27...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--
SEP											
21...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	103	35000	98

< Actual value is known to be less than the value shown.

07381590 WAX LAKE OUTLET AT CALUMET, LA

LOCATION.--Lat 29°41'52", long 91°22'22", in sec.56, T.15 S., R.11 E., St. Mary Parish, Hydrologic Unit 08080101 at Southern Railways System Bridge, 160 ft downstream from State Highway 90, 0.4 mi downstream from Bayou Teche, 0.5 mi west of Calumet, and 9.8 mi west of Morgan City.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1973 to June 1975 (discharge measurements only), October 1976 to May 1986 (elevations and discharge measurements only), June 1986 to current year. Gage heights, May 1942 to September 1976 and discharge, 1942-46, 1949-55, and intermittently, 1957 to current year (collected in same vicinity) are in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is National Geodetic Vertical Datum of 1929. Reverse flow at times during the year.

REMARKS.--No estimated daily discharges. Records poor. Relief outlet for Atchafalaya basin; discharge and elevations are affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.80 ft, June 6, 1983, minimum, -1.15 ft, Dec. 23, 1989.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since 1942, 11.02 ft, present datum, May 27, 1973, minimum, -2.82 ft, present datum, Oct. 18, 1948 (from records of Corps of Engineers, New Orleans District).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 227,000 ft³/s, June 11; maximum elevation, 5.51 ft, June 9, 15; maximum negative discharge, -2,220 ft³/s, Dec. 30; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33400	35100	45300	29200	89800	121000	108000	63700	132000	118000	53900	38100
2	35700	37700	46900	28900	88000	130000	115000	64800	137000	121000	39800	40800
3	36500	34800	47600	25200	90400	127000	124000	67300	147000	113000	38200	41100
4	36400	34300	39200	21800	99500	130000	113000	69200	158000	96200	35900	42900
5	36500	34300	40200	24200	96400	128000	112000	70900	175000	88800	34800	42100
6	38200	31600	38600	29600	104000	131000	117000	72600	181000	86400	28200	39000
7	39600	31300	39500	30600	108000	130000	114000	72100	192000	87200	27200	40500
8	40600	29900	44700	29400	108000	128000	103000	72800	197000	87700	25700	39600
9	38900	31200	38200	33600	113000	127000	102000	76800	202000	81300	25200	40700
10	39100	28400	37600	36400	126000	126000	101000	82400	208000	77100	23600	40000
11	39900	28200	38900	38400	125000	127000	107000	85000	210000	75200	24600	39400
12	41600	25800	36300	44700	129000	138000	105000	85800	213000	73800	22800	34700
13	42500	24700	26900	47200	137000	135000	105000	88000	212000	72400	21800	32700
14	43300	23400	26500	51500	141000	130000	46500	87100	201000	71200	21300	35300
15	43100	27500	30000	53600	112000	133000	33200	92600	194000	65000	21400	---
16	44600	32400	27400	53600	116000	138000	34400	97800	180000	61800	21300	---
17	43200	24200	24500	53500	108000	131000	35200	102000	177000	58700	21900	---
18	44400	30800	23000	54700	115000	129000	36900	110000	165000	56100	22000	---
19	36600	29000	27600	57500	114000	132000	40000	112000	152000	51900	22400	---
20	31000	29900	25200	57300	110000	119000	40900	113000	141000	59300	24000	---
21	29800	30000	27400	62500	108000	112000	44400	118000	138000	58400	25200	---
22	29500	32600	29800	62400	113000	112000	46000	116000	142000	57300	24100	---
23	26900	31900	23800	66800	127000	113000	47500	114000	141000	58600	22500	---
24	27600	30500	13300	64500	116000	114000	51200	117000	138000	52600	21100	---
25	25900	32300	12900	58700	114000	115000	54600	115000	135000	51500	22100	26100
26	26000	34800	19000	57700	114000	107000	55200	117000	133000	49500	22800	26700
27	28200	36900	17600	60600	114000	103000	58700	120000	129000	47300	25900	26200
28	29800	45500	15000	68900	124000	101000	59400	119000	121000	49900	29000	28200
29	30700	48900	17900	75900	---	103000	59500	125000	125000	60300	32900	26600
30	32900	45200	18300	80700	---	110000	61200	132000	130000	61300	35700	26900
31	35800	---	28000	86500	---	115000	---	137000	---	59200	35300	---
TOTAL	1108200	973100	927100	1546100	3160100	3795000	2230800	3015900	4906000	2208000	852600	---
MEAN	35750	32440	29910	49870	112900	122400	74360	97290	163500	71230	27500	---

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.27	1.67	1.49	.97	2.76	4.70	4.55	3.69	5.10	4.07	2.41	1.95
2	2.14	1.50	1.36	1.12	2.87	4.64	4.53	3.87	5.30	4.00	2.33	2.09
3	1.94	1.40	.84	1.16	2.90	4.59	4.36	4.09	5.23	3.76	2.27	2.21
4	1.92	1.74	1.23	1.28	2.34	4.73	4.34	3.94	5.21	3.64	2.16	2.13
5	2.18	1.91	1.28	1.23	2.52	4.79	4.39	3.55	5.15	3.71	2.18	2.00
6	2.27	1.90	1.48	1.07	2.85	4.88	4.40	3.28	5.23	3.59	2.11	2.33
7	2.11	1.94	1.73	1.17	2.83	4.91	4.01	3.52	5.33	3.45	2.20	2.29
8	1.72	2.08	.83	1.14	3.13	4.97	4.14	3.82	5.36	3.26	1.96	2.09
9	1.87	1.59	.61	1.31	3.31	4.94	4.18	4.30	5.38	3.33	1.84	2.08
10	2.19	1.68	1.44	1.29	3.36	4.90	4.15	3.70	5.38	3.32	1.99	2.11
11	2.23	1.74	1.67	1.28	3.06	4.93	3.88	3.88	5.35	3.19	2.11	2.21
12	2.34	1.84	.67	1.29	3.19	4.97	3.81	4.36	5.36	3.16	2.16	2.40
13	2.20	1.97	.83	1.34	3.42	4.90	3.95	4.31	5.39	2.88	2.28	2.32
14	2.15	2.22	1.33	1.51	3.57	4.96	3.97	4.14	5.38	2.60	2.38	2.14
15	2.59	2.28	1.31	1.49	4.16	4.83	3.72	4.24	5.42	2.58	2.43	---
16	2.65	.73	.52	1.64	3.94	4.56	3.70	4.41	5.41	2.83	2.51	---
17	2.32	1.26	.93	1.78	3.62	4.35	3.64	4.33	5.36	2.77	2.68	---
18	1.33	1.43	1.24	1.82	3.91	4.32	3.43	4.22	5.27	2.74	2.73	---
19	.74	1.39	1.03	1.94	3.99	4.21	3.50	4.37	5.16	2.83	2.50	---
20	1.01	1.41	.82	2.11	4.11	3.99	3.61	4.56	5.18	2.74	2.34	---
21	1.54	1.41	.64	1.82	4.54	4.08	3.61	4.53	5.16	2.79	2.14	---
22	1.51	1.60	-.62	1.86	4.82	4.18	3.49	4.36	5.16	2.81	2.16	---
23	1.62	.76	-.96	1.99	4.49	4.09	3.55	4.30	5.01	2.68	2.05	---
24	1.56	1.19	-.10	2.17	4.32	4.20	3.67	4.53	4.89	2.36	1.59	---
25	1.48	1.61	.56	2.10	4.33	4.19	3.82	4.59	4.77	2.20	1.41	1.77
26	1.58	1.75	.52	1.96	4.45	4.02	3.99	4.74	4.60	2.11	1.38	1.78
27	1.54	1.91	.75	2.41	4.53	4.04	3.88	4.83	4.48	2.25	1.68	1.81
28	1.82	1.53	.92	2.32	4.59	4.33	3.76	4.86	4.32	2.39	1.97	1.86
29	1.90	.93	1.19	2.54	---	4.46	3.96	4.83	4.27	2.34	1.90	1.85
30	1.95	.99	1.48	2.54	---	4.70	3.82	4.95	4.22	2.22	1.75	2.00
31	1.67	---	1.54	2.49	---	4.58	---	5.06	---	2.38	1.91	---
MAX	2.65	2.28	1.73	2.54	4.82	4.97	4.55	5.06	5.42	4.07	2.73	---
MIN	.74	.73	-.96	.97	2.34	3.99	3.43	3.28	4.22	2.11	1.38	---

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1959-60, 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1984, May 1990 to September 1990.

CHLORIDE-SURFACE: October 1974 to September 1984, May 1990 to September 1990.

CHLORIDE-25 FT DEPTH: December 1980 to September 1984, May 1990 to September 1990.

CHLORIDE-45 FT DEPTH: December 1980 to September 1984, May 1990 to September 1990.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 33.0 °C July 20, 1978; minimum daily, 2.0 °C Jan. 4, 5, 1984.

CHLORIDE-SURFACE: Maximum daily, 150 mg/L June 13, 14, 1977; minimum daily, 9.1 mg/L Apr. 15, 1976.

CHLORIDE-25 FT DEPTH: Maximum daily, 110 mg/L Nov. 5, 7, 8, 10, 11, 1981; minimum daily, 12 mg/L May 27, 1984.

CHLORIDE-45 FT DEPTH: Maximum daily, 110 mg/L Mar. 8, Nov. 5, 7, 8, 10, 11, 1981; minimum daily, 12 mg/L May 27, 28, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
OCT 17...	1230	54400	427	7.24	22.0	10	34	<1	8.3	0.7	36
NOV 20...	1230	32700	417	7.85	16.0	10	15	<1	9.7	2.0	<10
DEC 12...	1345	39600	356	7.73	10.0	20	29	<1	10.4	1.8	33
JAN 23...	1145	54900	267	7.32	11.5	50	120	<1	9.6	2.1	57
FEB 15...	1130	118000	213	7.40	17.0	60	130	<1	9.8	2.5	44
MAR 20...	1300	113000	248	7.50	16.5	70	100	<1	8.0	1.5	36
APR 11...	1130	119000	300	7.36	17.5	30	--	<1	7.8	1.2	31
MAY 29...	1600	133000	307	7.27	25.0	40	120	<1	5.7	0.4	37
JUN 18...	1215	137000	295	7.70	28.0	30	--	<1	5.1	--	35
JUL 03...	1220	104000	285	7.64	28.5	20	--	<1	5.0	2.0	35
AUG 22...	1345	49100	403	7.57	30.0	5	45	<1	6.7	1.2	19
SEP 24...	1215	26800	421	7.57	27.0	5	16	<1	7.9	1.0	20

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 17...	620	K80	140	38	11	30	3.6	104	55	32	51
NOV 20...	140	K30	140	38	12	27	3.8	120	50	27	--
DEC 12...	670	240	130	34	12	20	3.1	98	43	23	53
JAN 23...	720	280	87	24	6.6	16	3.0	64	32	21	277
FEB 15...	--	160	70	20	4.9	12	2.4	57	23	14	298
MAR 20...	250	K20	83	24	5.5	14	2.6	65	25	21	237
APR 11...	220	85	95	27	6.6	18	2.7	67	30	26	220
MAY 29...	K30	K40	110	33	7.2	18	3.4	84	32	25	179
JUN 18...	K260	K20	110	30	7.4	13	3.4	81	28	15	204
JUL 03...	K140	--	100	28	7.2	14	2.9	88	21	18	317
AUG 22...	K110	K20	160	42	13	18	3.8	132	42	21	102
SEP 24...	K60	K10	170	44	15	21	3.8	143	47	21	39

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS-SOLVED (µG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (µG/L AS BE)	BERYL-LIUM, DIS-SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (µG/L AS CD)	CADMIUM DIS-SOLVED (µG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (µG/L AS CR)
OCT 17...	0.01	0.77	0.31	0.19	2	1	<10	<10	2	<1	<10
NOV 20...	0.01	0.61	0.24	0.13	2	1	<10	<10	<1	<1	<10
DEC 12...	E0.03	E0.79	E0.41	E0.12	2	<1	<10	<10	<1	<1	<10
JAN 23...	0.05	0.66	0.60	0.31	4	<1	<10	<10	<1	<1	<10
FEB 15...	0.05	0.55	0.45	0.37	4	<1	<10	<10	1	<1	<10
MAR 20...	0.06	0.67	0.51	0.22	3	<1	<10	<10	<1	<1	<10
APR 11...	0.03	0.82	0.50	0.24	3	<1	<10	<10	<1	<1	10
MAY 29...	0.04	0.75	0.30	0.30	4	<1	<10	<10	<1	<1	<10
JUN 18...	0.01	0.99	1.0	0.23	2	1	<10	<10	<1	<1	19
JUL 03...	0.02	0.92	1.0	0.21	3	<1	<10	<10	<1	<1	5
AUG 22...	0.01	2.2	0.60	0.24	3	1	<10	<10	1	<1	9
SEP 24...	<0.01	1.6	0.82	0.15	2	2	<10	<10	1	<1	2

< Actual value is known to be less than the value shown.

E Estimated.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	CHROMIUM, HEXAVALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOVERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOVERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOVERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOVERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELENIUM, TOTAL (µG/L AS SE)
OCT 17...	<1	7	3	30	7	<1	0.2	<0.1	4	2	<1
NOV 20...	<1	10	11	<25	4	<1	0.1	<0.1	3	3	<1
DEC 12...	<1	5	6	30	5	<1	<0.1	<0.1	4	1	<1
JAN 23...	<1	6	4	200	<1	<1	<0.1	0.1	47	45	<1
FEB 15...	<1	12	5	70	15	<1	0.1	<0.1	10	2	<1
MAR 20...	<1	7	5	90	9	<1	<0.1	<0.1	9	<1	<1
APR 11...	<1	10	3	90	8	<1	<0.1	<0.1	8	2	<1
MAY 29...	<1	10	6	<25	7	<1	<0.1	<0.1	8	1	<1
JUN 18...	1	6	4	40	6	<1	<0.1	<0.1	21	7	<1
JUL 03...	<1	12	9	80	9	<1	0.1	<0.1	8	--	<1
AUG 22...	<1	9	6	<25	7	<1	<0.1	<0.1	7	4	<1
SEP 24...	<1	7	4	<25	5	<1	<0.1	<0.1	3	<1	<1

DATE	SELENIUM, DIS- SOLVED (µG/L AS SE)	VANADIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOVERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, TOTAL ORGANIC (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOVERABLE GRAVIMETRIC (MG/L)	PCB, TOTAL (µG/L)	NAPHTHALENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)
OCT 17...	<1	1	20	<10	3.9	<0.01	3	1	<0.1	<0.1	<0.01
NOV 20...	<1	1	30	30	4.3	<0.01	3	1	<0.1	<0.1	<0.01
DEC 12...	<1	<1	10	10	4.4	<0.01	1	<1	<0.1	<0.1	<0.01
JAN 23...	<1	1	30	20	9.0	<0.01	<1	2	<0.1	<0.1	<0.01
FEB 15...	<1	2	50	<10	8.5	<0.01	2	3	<0.1	<0.1	<0.01
MAR 20...	<1	<1	30	<10	7.1	<0.01	5	1	<0.1	<0.1	<0.01
APR 11...	<1	2	30	<10	7.3	<0.01	6	<1	<0.1	<0.1	<0.01
MAY 29...	<1	2	30	<10	7.8	<0.01	8	2	<0.1	<0.1	<0.01
JUN 18...	<1	1	30	<10	7.1	<0.01	8	<1	<0.1	<0.1	<0.01
JUL 03...	<1	1	40	10	8.9	<0.01	2	<1	<0.1	<0.1	<0.01
AUG 22...	<1	3	20	<10	5.8	<0.01	2	<1	<0.1	<0.1	<0.01
SEP 24...	<1	2	20	<10	4.6	<0.01	3	<1	<0.1	<0.1	<0.01

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	CHLOR-DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI-AZINON, TOTAL (µG/L)	DI-ELDRIN, TOTAL (µG/L)	ENDO-SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA-CHLOR, TOTAL (µG/L)
OCT 17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV 20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 12...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 23...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 15...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 11...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 29...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 18...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 03...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 22...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 24...	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	HEPTA-CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA-THION, TOTAL (µG/L)	METH-OXY-CHLOR, TOTAL (µG/L)	METHYL PARA-THION, TOTAL (µG/L)	METHYL TRI-THION, TOTAL (µG/L)	MIREX, TOTAL (µG/L)	PARA-THION, TOTAL (µG/L)	PER-THANE TOTAL (µG/L)	TOX-APHENE, TOTAL (µG/L)
OCT 17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
NOV 20...	<0.01	<0.01	<0.01	<0.01	0.10	<0.01	<0.01	0.03	<0.01	<0.5
DEC 12...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
JAN 23...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
FEB 15...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
MAR 20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
APR 11...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
MAY 29...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
JUN 18...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
JUL 03...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
AUG 22...	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.5
SEP 24...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

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07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
17...	<0.01	<0.1	<0.1	<0.1	<0.1	4.5	0.2	129	18900	98
NOV										
20...	<0.01	<0.1	<0.1	<0.1	<0.1	3.4	0.2	55	4860	99
DEC										
12...	<0.01	<0.1	<0.1	<0.1	<0.1	1.9	0.1	95	10100	98
JAN										
23...	<0.01	<0.1	<0.1	<0.1	<0.1	2.7	<0.1	332	49200	100
FEB										
15...	<0.01	<0.1	<0.1	<0.1	<0.1	1.3	<0.1	493	157000	89
MAR										
20...	<0.01	<0.1	<0.1	<0.1	<0.1	1.4	<0.1	355	108000	83
APR										
11...	<0.01	<0.1	<0.1	<0.1	<0.1	1.6	0.1	368	118000	87
MAY										
29...	<0.01	<0.1	<0.1	<0.1	<0.1	1.3	<0.1	441	158000	79
JUN										
18...	<0.01	<0.1	<0.1	<0.1	<0.1	1.1	<0.1	303	112000	74
JUL										
03...	<0.01	<0.1	<0.1	<0.1	<0.1	1.7	<0.1	354	99400	90
AUG										
22...	<0.01	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	--	--	--
SEP										
24...	<0.01	<0.1	<0.1	<0.1	<0.1	2.6	0.2	97	7050	100

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	21.0	26.0	27.0	28.0
2								---	22.0	27.0	28.0	27.0
3								---	22.0	27.0	27.0	27.0
4								---	22.0	27.0	27.0	27.0
5								---	22.0	26.0	28.0	27.0
6								---	22.0	27.0	27.0	27.0
7								---	22.0	28.0	28.0	27.0
8								---	23.0	28.0	27.0	27.0
9								---	23.0	27.0	27.0	28.0
10								---	24.0	27.0	27.0	28.0
11								---	24.0	27.0	27.0	27.0
12								---	24.0	28.0	27.0	27.0
13								---	24.0	27.0	27.0	25.0
14								---	25.0	26.0	27.0	26.0
15								---	25.0	27.0	27.0	26.0
16								---	25.0	25.0	27.0	27.0
17								---	25.0	25.0	27.0	27.0
18								---	25.0	26.0	27.0	27.0
19								---	26.0	26.0	27.0	27.0
20								---	26.0	26.0	27.0	27.0
21								---	26.0	27.0	27.0	26.0
22								---	26.0	27.0	27.0	26.0
23								---	25.0	27.0	27.0	25.0
24								---	26.0	27.0	27.0	24.0
25								---	26.0	27.0	28.0	25.0
26								---	27.0	27.0	28.0	25.0
27								---	27.0	27.0	27.0	25.0
28								---	27.0	27.0	27.0	25.0
29								21.0	27.0	27.0	27.0	25.0
30								---	27.0	28.0	28.0	25.0
31								21.0	---	---	28.0	---
MAX								---	27.0	28.0	28.0	28.0
MIN								---	21.0	25.0	27.0	24.0

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	26	20	23	28
2								---	24	18	20	24
3								---	24	21	21	26
4								---	24	18	23	25
5								---	23	19	23	25
6								---	27	20	23	24
7								---	22	18	24	25
8								---	23	17	22	26
9								---	20	17	22	26
10								---	23	18	23	24
11								---	45	16	25	24
12								---	21	18	24	27
13								---	23	18	24	27
14								---	21	17	23	25
15								---	22	18	24	24
16								---	19	17	24	25
17								---	22	18	24	26
18								---	22	20	25	24
19								---	23	17	22	24
20								---	27	18	24	25
21								---	24	17	27	24
22								---	17	18	21	25
23								---	15	17	21	24
24								---	22	18	20	25
25								---	26	---	21	27
26								---	19	17	20	34
27								---	18	21	24	30
28								---	18	17	23	27
29								26	19	19	23	32
30								---	19	19	22	29
31								26	---	---	22	---
MAX								---	45	21	27	34
MIN								---	15	16	20	24

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

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07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 25.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	21.0	26.0	27.0	28.0
2								---	22.0	27.0	28.0	27.0
3								---	22.0	27.0	27.0	27.0
4								---	22.0	27.0	27.0	27.0
5								---	22.0	26.0	28.0	27.0
6								---	22.0	27.0	27.0	27.0
7								---	22.0	28.0	28.0	27.0
8								---	23.0	28.0	27.0	27.0
9								---	23.0	27.0	27.0	28.0
10								---	24.0	27.0	27.0	28.0
11								---	24.0	27.0	27.0	27.0
12								---	24.0	28.0	27.0	27.0
13								---	24.0	27.0	27.0	25.0
14								---	25.0	26.0	27.0	26.0
15								---	25.0	27.0	27.0	26.0
16								---	25.0	25.0	27.0	27.0
17								---	25.0	25.0	27.0	27.0
18								---	25.0	26.0	27.0	27.0
19								---	26.0	26.0	27.0	27.0
20								---	26.0	26.0	27.0	27.0
21								---	26.0	27.0	27.0	26.0
22								---	26.0	27.0	27.0	26.0
23								---	25.0	27.0	27.0	25.0
24								---	26.0	27.0	27.0	24.0
25								---	26.0	---	28.0	25.0
26								---	27.0	27.0	28.0	25.0
27								---	27.0	27.0	27.0	25.0
28								---	27.0	27.0	27.0	25.0
29								21.0	27.0	27.0	27.0	.0
30								---	27.0	28.0	28.0	.0
31								21.0	---	---	28.0	---
MAX								---	27.0	28.0	28.0	28.0
MIN								---	21.0	25.0	27.0	.0

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 25.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	25	18	20	24
2								---	24	19	21	24
3								---	24	20	22	26
4								---	24	18	23	24
5								---	29	20	22	26
6								---	23	19	24	25
7								---	23	17	26	25
8								---	24	25	22	25
9								---	25	17	22	25
10								---	56	17	24	25
11								---	42	16	24	25
12								---	32	17	24	45
13								---	35	17	24	23
14								---	20	17	23	25
15								---	20	18	24	25
16								---	21	18	24	23
17								---	28	19	24	23
18								---	25	17	26	24
19								---	28	19	23	23
20								---	24	19	22	25
21								---	16	17	21	25
22								---	16	17	21	24
23								---	15	18	20	24
24								---	17	17	20	24
25								---	19	---	22	26
26								---	20	17	22	31
27								---	18	21	21	28
28								---	20	17	22	28
29								27	19	19	22	28
30								---	19	19	23	35
31								25	---	---	25	---
MAX								---	56	25	26	45
MIN								---	15	16	20	23

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 45.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	21.0	26.0	27.0	28.0
2								---	22.0	27.0	28.0	27.0
3								---	22.0	27.0	27.0	27.0
4								---	22.0	27.0	27.0	27.0
5								---	22.0	26.0	28.0	27.0
6								---	22.0	27.0	27.0	27.0
7								---	22.0	28.0	28.0	27.0
8								---	23.0	28.0	27.0	27.0
9								---	23.0	27.0	27.0	28.0
10								---	24.0	27.0	27.0	28.0
11								---	24.0	27.0	27.0	27.0
12								---	24.0	28.0	27.0	27.0
13								---	24.0	27.0	27.0	25.0
14								---	25.0	26.0	27.0	26.0
15								---	25.0	27.0	27.0	26.0
16								---	25.0	25.0	27.0	27.0
17								---	25.0	25.0	27.0	27.0
18								---	25.0	26.0	27.0	27.0
19								---	26.0	26.0	27.0	27.0
20								---	26.0	26.0	27.0	27.0
21								---	26.0	27.0	27.0	26.0
22								---	26.0	27.0	27.0	26.0
23								---	25.0	27.0	27.0	25.0
24								---	26.0	27.0	27.0	24.0
25								---	26.0	27.0	28.0	25.0
26								---	27.0	27.0	---	25.0
27								---	27.0	27.0	27.0	25.0
28								---	27.0	27.0	27.0	25.0
29								21.0	27.0	27.0	27.0	25.0
30								---	27.0	28.0	28.0	25.0
31								21.0	---	---	28.0	---
MAX								---	27.0	28.0	28.0	28.0
MIN								---	21.0	25.0	27.0	24.0

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 45.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	25	22	20	25
2								---	24	18	21	26
3								---	24	20	22	25
4								---	24	19	23	25
5								---	23	18	22	26
6								---	25	18	23	24
7								---	23	18	22	28
8								---	26	21	23	32
9								---	28	17	20	25
10								---	20	26	22	25
11								---	47	17	24	24
12								---	33	17	25	25
13								---	21	17	23	23
14								---	32	17	23	25
15								---	20	17	24	24
16								---	21	17	24	28
17								---	22	17	23	24
18								---	36	17	25	24
19								---	32	17	22	25
20								---	46	19	20	24
21								---	20	17	22	23
22								---	16	17	21	24
23								---	18	18	20	25
24								---	15	18	20	24
25								---	18	18	21	30
26								---	18	21	20	36
27								---	18	18	22	27
28								---	18	18	22	30
29								29	19	19	22	32
30								---	18	19	24	30
31								25	---	---	23	---
MAX								---	47	26	25	36
MIN								---	15	17	20	23

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA
(National stream-quality accounting network station)

LOCATION.--Lat 29°42'09", long 91°12'07", on line between secs.1 and 6, St. Mary Parish, Hydrologic Unit 08080101 near center of span on downstream side of Southern Railways System bridge at Morgan City, 0.3 mi downstream from U.S. Highway 90, 0.3 mi upstream from Bayou Boeuf, and 1.0 mi southwest of Morgan City High School.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1973 to September 1975 (discharge measurements only), October 1976 to current year elevations and discharge measurements only). Gage heights, 1905 to December 1975 and discharge, intermittently, 1927 to December 1975 (collected in same vicinity) are in reports of Corps of Engineers, New Orleans District, and National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is NGVD (National Geodetic Vertical Datum of 1929). Prior to October 1984 at datum 0.34 ft higher and prior to July 1983 at 0.17 ft higher. Prior to October 1981 at NGVD.

REMARKS.--Discharge and elevation affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.11 ft, June 7, 1983, from Corps of Engineers records; minimum, -0.94 ft, Nov. 29, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached an elevation of 10.53 ft, from incomplete record, discharge not determined. Maximum discharge observed during flood of June 8, 1927, 741,000 ft³/s. Minimum elevation, -5.44 ft, Aug. 25, 1926 (affected by storm). All data from records of Corps of Engineers, New Orleans District.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6.66 ft, June 15; minimum recorded, -0.10 ft, Dec. 23, but may have been less during period of no gage height record, Dec. 23-24.

DISCHARGE MEASUREMENTS MADE DURING YEAR

Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)
Oct. 18, 1989.....	115,000	Feb. 16.....	253,000	July 4.....	227,000
Nov. 21.....	79,000	Mar. 21.....	234,000	July 26.....	142,000
Dec. 13.....	97,500	Apr. 12.....	247,000	Aug. 23.....	98,900
Jan. 24, 1990.....	153,000	May 30.....	269,000	Sept. 25.....	85,900

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.73	2.13	2.02	1.45	3.74	5.86	5.69	4.97	6.17	5.64	3.19	2.37
2	2.68	2.14	1.97	1.45	3.86	5.90	5.70	5.00	6.31	5.57	3.13	2.46
3	2.55	1.97	1.70	1.41	3.95	5.87	5.63	5.08	6.26	5.43	3.08	2.55
4	2.51	2.14	1.71	1.46	3.85	5.92	5.60	5.05	6.33	5.31	3.01	2.54
5	2.62	2.26	1.78	1.50	3.82	5.96	5.61	4.93	6.30	5.28	2.98	2.45
6	2.70	2.26	1.85	1.54	4.05	6.00	5.62	4.81	6.36	5.16	2.92	2.61
7	2.62	2.30	2.05	1.65	4.12	6.03	5.42	4.85	6.44	5.03	2.91	2.63
8	2.42	2.39	1.79	1.63	4.33	6.08	5.46	4.96	6.46	4.91	2.75	2.52
9	2.38	2.05	1.42	1.74	4.51	6.09	5.46	5.25	6.49	4.86	2.63	2.48
10	2.58	2.02	1.79	1.78	4.65	6.07	5.45	5.02	6.50	4.78	2.59	2.48
11	2.56	2.04	2.02	1.84	4.55	6.06	5.32	5.08	6.51	4.65	2.64	2.58
12	2.64	2.09	1.57	1.97	4.61	6.06	5.25	5.32	6.53	4.57	2.69	2.68
13	2.57	2.20	1.39	1.99	4.74	6.02	5.28	5.35	6.55	4.40	2.78	2.66
14	2.54	2.42	1.64	2.15	4.86	6.03	5.31	5.36	6.56	4.20	2.83	2.59
15	2.80	2.58	1.70	2.20	5.23	6.00	5.19	5.42	6.60	4.06	2.89	2.52
16	2.91	1.73	1.14	2.29	5.16	5.89	5.13	5.55	6.59	4.05	2.90	2.47
17	2.81	1.60	1.25	2.41	5.02	5.74	5.08	5.53	6.57	3.94	2.99	2.46
18	2.35	1.77	1.40	2.48	5.20	5.66	4.95	5.49	6.51	3.83	3.05	2.40
19	1.79	1.69	1.43	2.60	5.30	5.59	4.93	5.59	6.45	3.80	2.93	2.45
20	1.65	1.72	1.20	2.81	5.35	5.41	4.96	5.69	6.45	3.71	2.80	2.37
21	1.92	1.75	1.13	2.80	5.57	5.41	4.96	5.67	6.41	3.67	2.67	2.43
22	1.89	1.91	.32	2.79	5.84	5.44	4.89	5.59	6.41	3.65	2.64	2.23
23	1.90	1.42	---	2.84	5.73	5.38	4.87	5.56	6.32	3.59	2.50	1.79
24	1.83	1.54	---	2.94	5.63	5.43	4.88	5.67	6.23	3.42	2.22	1.68
25	1.73	1.86	.78	3.15	5.61	5.44	4.94	---	6.14	3.28	2.04	2.02
26	1.78	2.03	.83	3.06	5.67	5.37	5.01	---	6.03	3.17	1.95	2.07
27	1.80	2.22	.99	3.30	5.73	5.35	5.07	---	5.95	3.18	2.06	2.09
28	2.04	2.17	1.11	3.33	5.77	5.48	5.03	---	5.83	3.22	2.24	2.16
29	2.14	1.84	1.35	3.56	---	5.55	5.09	5.91	5.79	3.24	2.29	2.10
30	2.23	1.78	1.60	3.58	---	5.74	5.03	5.99	5.74	3.16	2.25	2.21
31	2.20	---	1.91	3.61	---	5.70	---	6.11	---	3.18	2.35	---
MAX	2.91	2.58	---	3.61	5.84	6.09	5.70	---	6.60	5.64	3.19	2.68
MIN	1.65	1.42	---	1.41	3.74	5.35	4.87	---	5.74	3.16	1.95	1.68

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to September 1981.
 WATER TEMPERATURES: October 1976 to September 1984, May 1990 to September 1990.
 CHLORIDE-SURFACE: October 1974 to September 1984, May 1990 to September 1990.
 CHLORIDE-25 FT DEPTH: October 1980 to September 1984.
 CHLORIDE-45 FT DEPTH: October 1980 to September 1984.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 622 micromhos Jan. 21, 1981; minimum daily, 179 micromhos Feb. 23, 1979.
 WATER TEMPERATURES: Maximum daily, 32.0 °C July 28, 1977; minimum daily, 4.0 °C Feb. 9-11, 1978.
 CHLORIDE-SURFACE: Maximum daily, 160 mg/L June 14-16, 1977; minimum daily, 11 mg/L Jan. 6, May 10, 1975.
 CHLORIDE-25 FT DEPTH: Maximum daily, 120 mg/L Nov. 5, 1981; minimum daily, 16 mg/L Dec. 26, 29, 1982, many days during Jan., Feb. 14, 1983.
 CHLORIDE-45 FT DEPTH: Maximum daily, 130 mg/L Dec. 9, 1981; minimum daily, 14 mg/L Jan. 26, Mar. 1, May 27, 1983.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 644 microsiemens was observed June 17, 1987.
 A water temperature of 32.0 °C was observed Aug. 6, 1987.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY LEVEL (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT												
18...	0945	115000	404	7.30	21.5	20	20	<1	8.6	0.8	35	880
NOV												
21...	0915	79000	413	7.87	16.0	15	13	<1	8.3	1.8	21	270
DEC												
13...	0930	98000	368	7.65	8.5	20	22	<1	10.8	1.1	29	620
JAN												
24...	0900	153000	241	7.39	12.5	60	150	<1	8.6	2.0	50	1200
FEB												
16...	0945	253000	213	7.45	14.5	80	110	<1	9.4	2.7	43	130
MAR												
21...	0830	234000	253	7.41	15.5	40	85	<1	8.9	2.0	36	290
APR												
12...	0900	247000	296	7.47	16.5	--	90	<1	7.4	1.2	35	700
MAY												
30...	0945	269000	291	7.76	25.0	20	120	<1	6.1	1.1	35	K100
JUN												
19...	0800	--	284	7.54	27.5	30	75	<1	4.8	--	35	K350
JUL												
04...	0915	227000	279	7.74	28.5	10	--	<1	4.6	2.5	41	270
AUG												
23...	0900	99000	401	7.50	29.5	5	54	<1	6.2	1.0	23	K160
SEP												
25...	0930	85900	414	7.78	27.0	5	17	<1	7.5	1.3	20	K40

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCHI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT 18...	40	390	140	38	11	27	3.2	98	54	29	0.2	6.0
NOV 21...	270	K75	140	38	12	26	3.8	119	47	26	--	--
DEC 13...	84	400	130	35	11	21	2.7	99	43	25	0.1	5.9
JAN 24...	400	720	80	22	6.0	14	2.8	60	24	19	--	--
FEB 16...	K44	K120	64	18	4.7	11	2.3	57	22	14	0.1	6.1
MAR 21...	K50	84	82	24	5.4	15	2.5	62	29	21	--	--
APR 12...	100	400	96	27	6.8	20	2.5	66	33	28	0.2	5.6
MAY 30...	K40	210	100	30	6.9	18	3.4	78	32	24	--	--
JUN 19...	K50	110	110	31	7.8	14	2.8	80	27	19	0.3	6.2
JUL 04...	K95	140	100	28	7.2	13	2.9	82	23	18	--	--
AUG 23...	K34	K14	160	43	13	18	3.4	130	43	22	0.6	6.7
SEP 25...	K20	K10	170	44	14	22	3.8	147	51	21	--	--
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)
OCT 18...	234	234	23	0.02	<0.01	0.8	0.71	0.03	0.02	0.8	0.4	0.11
NOV 21...	--	224	13	0.01	--	0.60	--	--	--	--	0.26	0.12
DEC 13...	212	207	35	0.02	<0.01	0.7	0.70	0.08	0.05	0.3	0.3	0.08
JAN 24...	148	124	408	0.05	--	0.57	--	--	--	--	0.70	0.42
FEB 16...	130	111	239	0.09	0.02	0.5	0.50	0.17	0.04	0.6	0.2	0.11
MAR 21...	--	134	250	0.06	--	0.67	--	--	--	--	0.49	0.23
APR 12...	171	165	275	0.04	0.02	0.7	0.60	0.05	0.03	0.9	0.7	0.05
MAY 30...	--	161	277	0.04	--	0.71	--	--	--	--	0.26	0.23
JUN 19...	155	162	224	0.03	0.01	0.9	0.90	0.06	0.02	0.9	0.7	0.07
JUL 04...	--	141	13	0.03	--	0.91	--	--	--	--	0.58	0.23
AUG 23...	226	231	144	0.04	<0.01	1.9	2.0	0.07	0.01	0.4	0.4	0.20
SEP 25...	--	244	34	<0.01	--	1.6	--	--	--	--	0.55	0.14

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

MISSISSIPPI RIVER DELTA

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (MG/L AS AL)	ARSENIC TOTAL (MG/L AS AS)	ARSENIC DIS- SOLVED (MG/L AS AS)	BARIUM, DIS- SOLVED (MG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (MG/L AS BE)	BERYL- LIUM, DIS- SOLVED (MG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (MG/L AS CD)	CADMIUM DIS- SOLVED (MG/L AS CD)	CHRO- MIUM, DIS- SOLVED (MG/L AS CR)	CHRO- MIUM, TOTAL RECOV- ERABLE (MG/L AS CR)
OCT 18...	0.07	0.05	<10	1	1	66	<10	<0.5	1	<1	<1	4
NOV 21...	--	--	--	2	1	--	<10	<10	<1	<1	--	<10
DEC 13...	0.03	0.04	--	<1	<1	--	<10	<0.5	<1	<1	--	2
JAN 24...	--	--	--	5	<1	--	<10	<10	<1	<1	--	<10
FEB 16...	0.02	0.02	40	2	1	46	<10	0.6	<1	--	<1	10
MAR 21...	--	--	--	3	<1	--	<10	<10	<1	<1	--	<10
APR 12...	0.02	0.02	30	2	1	59	<10	<0.5	<1	<1	<1	11
MAY 30...	--	--	--	4	<1	--	<10	<10	<1	<1	--	10
JUN 19...	0.05	0.05	--	2	1	--	<10	<0.5	<1	<1	--	7
JUL 04...	--	--	--	4	1	--	<10	<10	<1	<1	--	4
AUG 23...	0.08	0.07	20	3	2	76	<10	<0.5	1	<1	2	5
SEP 25...	--	--	--	2	2	--	<10	<10	<1	<1	--	2

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (MG/L AS CR)	COBALT, DIS- SOLVED (MG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (MG/L AS CU)	COPPER, DIS- SOLVED (MG/L AS CU)	IRON, DIS- SOLVED (MG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (MG/L AS PB)	LEAD, DIS- SOLVED (MG/L AS PB)	LITHIUM DIS- SOLVED (MG/L AS LI)	MANGA- NESE, DIS- SOLVED (MG/L AS MN)	MERCURY DIS- SOLVED (MG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (MG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (MG/L AS MO)
OCT 18...	<1	<3	--	3	11	<1	<1	11	2	<0.1	<0.1	<10
NOV 21...	<1	--	10	6	<25	2	<1	--	--	<0.1	<0.1	--
DEC 13...	<1	--	6	3	17	3	1	--	--	<0.1	<0.1	--
JAN 24...	<1	--	11	3	60	11	<1	--	--	<0.1	<0.1	--
FEB 16...	<1	<3	8	5	72	57	1	6	19	<0.1	<0.1	<10
MAR 21...	<1	--	6	3	90	16	<1	--	--	<0.1	0.2	--
APR 12...	<1	<3	9	5	97	7	2	7	10	<0.1	<0.1	<10
MAY 30...	<1	--	10	6	70	6	<1	--	7	<0.1	<0.1	--
JUN 19...	<1	--	8	4	37	7	<1	--	--	<0.1	<0.1	--
JUL 04...	<1	--	8	5	<25	5	<1	--	--	<0.1	<0.1	--
AUG 23...	2	<3	10	5	7	7	<1	8	5	<0.1	<0.1	<10
SEP 25...	<1	--	4	4	<25	2	<1	--	--	<0.1	<0.1	--

< Actual value is known to be less than the value shown.

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT 18...	5	1	<1	<1	<1	220	<6	40	8	4.2	<0.01
NOV 21...	3	<1	<1	<1	--	--	1	10	10	4.6	<0.01
DEC 13...	2	1	<1	<1	--	--	2	10	4	4.5	<0.01
JAN 24...	13	2	<1	<1	--	--	2	50	<10	10	<0.01
FEB 16...	11	2	<1	<1	<1	110	<6	60	6	9.5	<0.01
MAR 21...	10	<1	<1	<1	--	--	<1	30	<10	5.2	<0.01
APR 12...	9	7	<1	<1	<1	160	<6	30	<3	7.7	<0.01
MAY 30...	10	<1	<1	<1	--	--	1	40	<10	4.3	<0.01
JUN 19...	10	8	<1	<1	--	--	3	20	5	7.2	<0.01
JUL 04...	6	2	<1	<1	--	--	2	30	10	10	<0.01
AUG 23...	7	8	<1	<1	<1	190	<6	20	<3	5.9	<0.01
SEP 25...	3	<1	<1	<1	--	--	2	10	<10	4.8	<0.01

DATE	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV- GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)
OCT 18...	2	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV 21...	2	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 13...	1	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 24...	5	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 16...	1	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 21...	6	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 12...	2	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
MAY 30...	3	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 19...	8	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 04...	2	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 23...	4	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 25...	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01

< Actual value is known to be less than the value shown.

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	ENDO-SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA-CHLOR, TOTAL (µG/L)	HEPTA-CHLOR EPOXIDE, TOTAL (µG/L)	LINDANE, TOTAL (µG/L)	MALA-THION, TOTAL (µG/L)	METH-OXY-CHLOR, TOTAL (µG/L)	METHYL PARA-THION, TOTAL (µG/L)	METHYL TRI-THION, TOTAL (µG/L)	MIREX, TOTAL (µG/L)
OCT 18...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV 21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	<0.01
DEC 13...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 24...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 16...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 12...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 30...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 19...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 04...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 23...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DATE	PARA-THION, TOTAL (µG/L)	PER-THANE, TOTAL (µG/L)	TOX-APHENE, TOTAL (µG/L)	TOTAL TRI-THION (µG/L)	2,4-D, TOTAL (µG/L)	2,4-DP, TOTAL (µG/L)	2,4,5-T, TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 18...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	128	39700	96
NOV 21...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	72	15400	99
DEC 13...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	81	21400	96
JAN 24...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	474	196000	94
FEB 16...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	541	370000	71
MAR 21...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	449	284000	70
APR 12...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	386	257000	79
MAY 30...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	482	350000	76
JUN 19...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--
JUL 04...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	371	227000	91
AUG 23...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	111	29700	99
SEP 25...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	105	24400	99

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

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07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	21	19	32	27
2								---	21	18	46	21
3								---	21	17	35	25
4								---	19	18	26	25
5								---	22	18	34	26
6								---	20	19	24	25
7								---	19	---	27	24
8								---	21	---	24	22
9								---	22	17	32	25
10								---	20	16	35	25
11								---	20	---	35	26
12								---	27	17	32	24
13								---	20	16	34	24
14								---	19	30	29	25
15								---	30	17	29	25
16								---	20	18	35	24
17								---	17	---	25	26
18								---	19	---	34	25
19								---	---	28	33	26
20								---	---	25	24	---
21								---	---	23	23	---
22								---	---	24	22	---
23								---	---	26	25	---
24								---	---	---	43	---
25								---	19	16	46	---
26								---	25	30	24	---
27								---	---	29	24	---
28								---	27	28	25	---
29								---	23	24	25	---
30								18	---	26	25	---
31								23	---	30	28	---
MAX								---	---	30	46	---
MIN								---	---	16	22	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	23.0	27.0	28.0	28.5
2								---	23.0	27.0	28.0	28.5
3								---	23.0	27.0	28.0	27.5
4								---	22.5	27.0	28.0	27.5
5								---	22.5	26.5	28.0	27.0
6								---	23.0	26.5	27.0	27.5
7								---	24.0	---	27.0	27.5
8								---	24.0	---	27.0	28.0
9								---	24.0	27.0	26.5	28.0
10								---	24.0	27.0	26.5	28.0
11								---	24.0	---	26.0	27.0
12								---	24.5	27.5	26.0	27.0
13								---	24.5	27.5	26.5	27.0
14								---	25.0	27.5	26.5	27.5
15								---	25.5	27.0	26.0	27.5
16								---	26.0	27.0	26.5	27.5
17								---	26.0	---	26.5	27.0
18								---	25.5	---	27.0	26.5
19								---	---	27.0	27.0	26.5
20								---	---	27.0	27.0	---
21								---	---	27.0	27.0	---
22								---	---	27.0	27.0	---
23								---	---	27.0	27.0	---
24								---	---	---	27.5	---
25								---	26.5	26.5	27.5	---
26								---	26.0	27.0	27.5	---
27								---	---	27.0	27.5	---
28								---	26.0	27.5	27.5	---
29								---	26.5	27.5	27.5	---
30								22.0	---	27.5	28.0	---
31								23.0	---	28.0	28.0	---
MAX								---	---	28.0	28.0	---
MIN								---	---	26.5	26.0	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

MISSISSIPPI RIVER DELTA

07381650 LOWER ATCHAFALAYA RIVER BELOW SWEETBAY LAKE, NEAR MORGAN CITY, LA

LOCATION.--Lat 29°33'06", long 91°14'41", in sec.21, T.17 S., R.12 E., St. Mary Parish, gage attached to wharf of Texas Oil Company at Mile 129.5 from head of Atchafalaya River via Atchafalaya Basin main channel, and 10.3 mi south of Morgan City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1986 to current year (gage heights only). October 1985 to September 1986 (elevations only). Elevations, February 1956 to September 1985 are in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 0.78 ft below National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1986 datum of gage was National Geodetic Vertical Datum of 1929.

REMARKS.--Gage heights affected by wind and tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.27 ft, Oct. 28, 1985; minimum gage height, -0.12 ft, Oct. 21, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation, 8.05 ft, June 27, 1957; minimum elevation, -1.55 ft, Nov. 6, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.69 ft, May 9, June 2; minimum gage height, 0.14 ft, Dec. 22.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.67	2.13	1.93	1.61	2.87	4.01	3.95	3.61	4.31	3.79	2.79	2.45
2	2.56	2.07	1.85	1.63	2.93	3.92	3.91	3.77	4.43	3.72	2.76	2.53
3	2.43	1.94	1.51	1.63	3.00	3.90	3.79	3.90	4.29	3.61	2.72	2.64
4	2.40	2.16	1.66	1.73	2.62	4.00	3.80	3.74	4.27	3.59	2.63	2.59
5	2.57	2.32	1.76	1.73	2.68	4.00	3.81	3.46	4.16	3.68	2.65	2.51
6	2.66	2.34	1.90	1.68	2.87	4.08	3.82	3.31	4.26	3.60	2.58	2.74
7	2.56	2.38	2.13	1.77	2.88	4.10	3.60	3.44	4.34	3.49	2.66	2.74
8	2.30	2.54	1.72	1.72	3.09	4.16	3.71	3.68	4.35	3.38	2.51	2.60
9	2.34	2.17	1.36	1.79	3.24	4.15	3.73	3.98	4.36	3.44	2.42	2.57
10	2.59	2.20	1.88	1.80	3.25	4.19	3.73	3.52	4.33	3.44	2.50	2.58
11	2.58	2.22	2.12	1.77	3.06	4.23	3.56	3.69	4.30	3.37	2.58	2.70
12	2.66	2.29	1.56	1.80	3.10	4.25	3.55	4.07	4.27	3.38	2.65	2.83
13	2.56	2.41	1.48	1.78	3.20	4.24	3.64	3.87	4.34	3.24	2.74	2.78
14	2.55	2.64	1.78	1.89	3.33	4.38	3.70	3.80	4.29	3.09	2.82	2.70
15	2.88	2.77	1.85	1.90	3.84	4.19	3.50	3.82	4.36	3.07	2.84	2.63
16	2.94	1.69	1.23	2.00	3.53	4.04	3.51	3.93	4.35	3.13	2.93	2.60
17	2.75	1.79	1.45	2.12	3.30	3.94	3.45	3.76	4.31	3.10	3.06	2.60
18	2.17	1.93	1.65	2.18	3.47	3.90	3.33	3.72	4.29	3.09	3.13	2.51
19	1.65	1.88	1.64	2.28	3.51	3.78	3.42	3.89	4.22	3.16	2.94	2.58
20	1.65	1.90	1.39	2.45	3.61	3.64	3.48	3.98	4.27	3.13	2.82	2.52
21	2.01	1.92	1.29	2.27	3.94	3.69	3.47	3.93	4.31	3.15	2.68	2.61
22	1.98	2.09	.34	2.24	4.09	3.71	3.38	3.78	4.33	3.19	2.69	2.35
23	2.06	1.51	.29	2.32	3.83	3.66	3.46	3.78	4.23	3.11	2.60	1.87
24	2.00	1.67	.46	2.49	3.71	3.72	3.56	3.97	4.20	2.91	2.26	1.83
25	1.92	1.99	1.07	2.48	3.70	3.68	3.67	4.00	4.09	2.79	2.09	2.23
26	2.00	2.15	1.04	2.32	3.78	3.58	3.81	4.12	4.00	2.70	2.03	2.26
27	1.98	2.32	1.23	2.58	3.84	3.60	3.71	4.16	3.94	2.73	2.20	2.28
28	2.21	2.08	1.39	2.54	3.88	3.81	3.67	4.17	3.90	2.81	2.43	2.34
29	2.30	1.62	1.66	2.76	---	3.90	3.84	4.11	3.89	2.77	2.44	2.30
30	2.35	1.60	1.90	2.71	---	4.05	3.66	4.23	3.86	2.72	2.35	2.42
31	2.19	---	2.12	2.67	---	3.96	---	4.26	---	2.77	2.47	---
MAX	2.94	2.77	2.13	2.76	4.09	4.38	3.95	4.26	4.43	3.79	3.13	2.83
MIN	1.65	1.51	.29	1.61	2.62	3.58	3.33	3.31	3.86	2.70	2.03	1.83

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA

LOCATION.--Lat 31°00'00", long 92°22'46", in NW 1/4 SW 1/4 sec.4, T.1 S., R.1 E., Louisiana Meridian, Evangeline Parish, Hydrologic Unit 08080102, near right bank on downstream side of bridge on U.S. Highway 167, 1.000 ft downstream from Cocodrie Lake dam, 1.0 mi downstream from Chicago, Rock Island and Pacific Railroad Company bridge, 1.5 mi east of Clearwater, 4.0 mi south of Meeker, and 5.0 mi downstream from Hurricane Creek.

DRAINAGE AREA.--240 mi².

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.

REVISED RECORDS.--WSP 1211: 1938, drainage area. WDR LA-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above mean Gulf level (levels by Corps of Engineers) and 39.57 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). See WSP 1731 for history of changes prior to Mar. 28, 1940. January to September 1985, auxiliary nonrecording gage 6.6 mi downstream from base gage at datum 35.10 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Records good. Slight regulation at low flow by Cocodrie Lake. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--55 years (water years 1923-24, 1938-90), 428 ft³/s, 24.22 in/yr, 310,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,200 ft³/s, 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, 5.3 ft³/s, Nov. 8, 9, 1982, regulated.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,480 ft³/s, Jan. 27, gage height, 18.35 ft; minimum, 77 ft³/s, Sept. 14; minimum gage height, 4.76 ft, July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	89	81	164	155	1400	1040	621	212	338	105	105	89		
2	89	81	158	153	1370	1020	613	208	390	101	105	86		
3	89	81	151	167	1340	1010	580	212	392	94	110	88		
4	87	81	147	276	1320	997	543	218	373	107	108	88		
5	86	82	144	368	1300	975	504	204	345	100	105	91		
6	85	90	139	516	1270	950	473	195	310	90	103	90		
7	84	109	181	668	1240	926	445	186	272	86	101	87		
8	83	119	206	747	1210	901	417	202	250	85	102	86		
9	81	121	215	763	1210	876	391	265	231	99	99	84		
10	80	120	217	751	1210	851	372	288	214	126	97	86		
11	80	117	209	718	1200	825	354	299	202	125	98	84		
12	80	115	198	655	1170	800	348	308	202	134	97	82		
13	80	112	189	584	1150	773	356	318	190	138	97	80		
14	79	112	179	520	1120	739	359	298	170	132	93	79		
15	80	115	172	464	1100	737	364	277	159	127	92	80		
16	82	115	159	414	1110	772	357	260	155	126	95	82		
17	83	113	153	376	1110	809	346	251	153	123	96	82		
18	82	111	154	449	1100	811	329	241	139	124	95	85		
19	81	111	157	615	1090	793	316	231	131	121	92	83		
20	81	110	155	782	1080	769	301	225	121	117	94	82		
21	81	110	152	851	1070	736	289	233	117	118	101	e80		
22	81	120	145	886	1120	682	278	213	112	120	103	e81		
23	81	152	144	884	1170	615	266	193	108	120	96	e81		
24	81	169	138	972	1160	553	252	182	111	119	95	e82		
25	81	173	130	1260	1140	493	240	182	102	120	94	e82		
26	80	173	131	1430	1110	441	231	175	99	118	93	e82		
27	80	174	132	1480	1090	397	233	171	108	114	93	e83		
28	79	179	132	1450	1060	361	235	212	113	113	90	e83		
29	79	173	144	1450	---	421	232	216	111	114	89	e84		
30	80	169	151	1460	---	527	223	215	107	111	91	e84		
31	81	---	154	1440	---	589	---	232	---	106	91	---		
TOTAL	2545	3688	5000	23704	33020	23189	10868	7122	5825	3533	3020	2516		
MEAN	82.1	123	161	765	1179	748	362	230	194	114	97.4	83.9		
MAX	89	179	217	1480	1400	1040	621	318	392	138	110	91		
MIN	79	81	130	153	1060	361	223	171	99	85	89	79		
AC-FT	5050	7320	9920	47020	65500	46000	21560	14130	11550	7010	5990	4990		
CFSM	.34	.51	.67	3.19	4.91	3.12	1.51	.96	.81	.47	.41	.35		
IN.	.39	.57	.77	3.67	5.12	3.59	1.68	1.10	.90	.55	.47	.39		
CAL YR 1989	TOTAL 229481		MEAN 629		MAX 3440		MIN 79		AC-FT 455200		CFSM 2.62		IN. 35.57	
WTR YR 1990	TOTAL 124030		MEAN 340		MAX 1480		MIN 79		AC-FT 246000		CFSM 1.42		IN. 19.22	

e Estimated.

MISSISSIPPI RIVER DELTA

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.45	5.30	6.68	6.55	17.95	15.35	11.66	6.36	7.90	5.04	5.46	5.37
2	5.45	5.31	6.60	6.51	17.74	15.24	11.57	6.31	8.59	5.00	5.47	5.32
3	5.44	5.30	6.49	6.72	17.58	15.14	11.14	6.36	8.62	4.90	5.57	5.35
4	5.42	5.30	6.42	8.14	17.46	15.01	10.64	6.45	8.36	5.11	5.55	5.36
5	5.39	5.32	6.37	9.13	17.31	14.83	10.12	6.26	8.00	5.02	5.52	5.41
6	5.37	5.46	6.29	10.62	17.13	14.62	9.71	6.14	7.54	4.87	5.50	5.40
7	5.36	5.78	6.93	12.10	16.91	14.42	9.33	6.01	7.13	4.81	5.48	5.35
8	5.34	5.93	7.30	12.83	16.70	14.21	8.95	6.23	6.88	4.80	5.51	5.32
9	5.31	5.98	7.42	12.98	16.68	13.99	8.61	7.03	6.65	5.04	5.46	5.31
10	5.29	5.95	7.44	12.86	16.68	13.77	8.35	7.29	6.45	5.52	5.44	5.33
11	5.28	5.91	7.34	12.56	16.60	13.54	8.12	7.42	6.30	5.51	5.45	5.31
12	5.28	5.86	7.18	11.99	16.43	13.31	8.03	7.51	6.31	5.68	5.43	5.26
13	5.27	5.82	7.05	11.29	16.22	13.07	8.14	7.63	6.16	5.75	5.44	5.24
14	5.27	5.82	6.91	10.65	16.00	12.75	8.19	7.40	5.87	5.67	5.39	5.20
15	5.27	5.86	6.80	10.09	15.86	12.73	8.25	7.18	5.72	5.61	5.37	5.24
16	5.32	5.87	6.60	9.60	15.93	13.06	8.15	6.98	5.68	5.60	5.41	5.28
17	5.35	5.84	6.51	9.21	15.92	13.40	8.00	6.87	5.66	5.57	5.45	5.29
18	5.32	5.81	6.53	9.95	15.85	13.41	7.77	6.75	5.44	5.59	5.43	5.35
19	5.31	5.80	6.58	11.59	15.79	13.25	7.60	6.61	5.32	5.55	5.38	5.31
20	5.30	5.79	6.55	13.15	15.71	13.03	7.43	6.54	5.15	5.50	5.42	5.29
21	5.30	5.79	6.49	13.77	15.64	12.73	7.30	6.64	5.10	5.52	5.53	---
22	5.30	5.96	6.39	14.08	16.05	12.24	7.19	6.38	5.03	5.57	5.56	---
23	5.30	6.51	6.37	14.06	16.37	11.61	7.04	6.10	4.98	5.58	5.45	---
24	5.30	6.76	6.28	14.80	16.36	10.98	6.88	5.95	5.03	5.58	5.44	---
25	5.30	6.82	6.13	17.03	16.18	10.38	6.74	5.94	4.92	5.61	5.43	---
26	5.29	6.82	6.15	18.12	15.97	9.86	6.62	5.84	4.88	5.58	5.42	---
27	5.27	6.83	6.17	18.34	15.75	9.42	6.65	5.78	5.04	5.54	5.42	---
28	5.27	6.91	6.16	18.21	15.53	9.06	6.66	6.36	5.12	5.53	5.37	---
29	5.26	6.82	6.38	18.23	---	9.67	6.63	6.42	5.11	5.55	5.35	---
30	5.27	6.76	6.49	18.25	---	10.72	6.51	6.41	5.06	5.52	5.40	---
31	5.31	---	6.53	18.14	---	11.34	---	6.62	---	5.47	5.39	---
MAX	5.45	6.91	7.44	18.34	17.95	15.35	11.66	7.63	8.62	5.75	5.57	---
MIN	5.26	5.30	6.13	6.51	15.53	9.06	6.51	5.78	4.88	4.80	5.35	---

07382500 BAYOU COURTABLEAU AT WASHINGTON, LA

LOCATION.--Lat 30°37'05", long 92°03'20", in SW 1/4 NW 1/4 sec.81, T.5 S., R.4 E., Louisiana Meridian, St. Landry Parish, Hydrologic Unit 08080102, near center of span on downstream side of bridge on State Highway 10 at Washington, 0.2 mi upstream from Southern Pacific Transportation Company bridge, 1.2 mi upstream from Bayou Carron, 3.5 mi downstream from confluence of Bayou Cocodrie and Bayou Boeuf, and 6.0 mi north of Opelousas.

DRAINAGE AREA.--715 mi². See REMARKS.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1948, nonrecording gage at same site and datum. Water-stage recorder for Bayou Courtableau near Washington (station 07382495) used as auxiliary gage for this station since Feb. 28, 1949. Prior to Feb. 28, 1949, auxiliary nonrecording gage 3.5 mi upstream from base at same datum.

REMARKS.--Estimated daily discharges: Dec. 24 (indefinite stage-discharge relationship), May 13 - June 6 (no gage-height record). Records fair, except those for period of indefinite stage-discharge relationship and no gage-height record, which are poor. Some flow diverted from Bayou Boeuf into Chatlin Lake Canal through Bayou Lamourie. Since April 1952, floodflow is diverted from 76.1 mi² in Bayou Rapides basin into Bayou Boeuf when stage of Red River makes it necessary to close gates at mouth of Bayou Rapides. In extreme floods, considerable flow bypasses the station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--44 years, 1,103 ft³/s, 799,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft³/s, May 21, 1953; maximum elevation, 35.29 ft, May 22, 1953; minimum discharge, 70 ft³/s, Oct. 19, 1973; minimum elevation, 10.72 ft, Oct. 18, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,350 ft³/s, Feb. 2, elevation, 28.71 ft; maximum elevation, 29.35 ft, Jan. 29; minimum daily discharge, 52 ft³/s, July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	176	275	1120	5290	2660	1730	270	e1120	104	101	125
2	214	173	247	783	5320	3190	1510	239	e1590	115	96	129
3	246	175	238	579	5300	3180	1290	246	e1990	103	88	126
4	277	174	237	1810	5230	3200	1090	255	e1920	93	89	110
5	268	171	218	2800	5110	3030	912	276	e1820	92	82	127
6	264	166	203	3090	4990	2590	795	272	e1100	87	83	128
7	268	186	769	3200	4840	2010	737	259	610	77	88	127
8	277	215	1980	3400	4670	1560	674	296	432	66	93	123
9	275	198	1490	3530	4460	1350	633	1690	324	59	98	129
10	292	176	1010	3510	4370	1240	552	1540	273	52	96	136
11	281	178	687	3260	4310	1140	779	1030	233	54	95	144
12	274	178	502	2710	4270	1050	1200	580	208	59	97	159
13	264	175	375	1960	4190	985	1160	e490	174	78	89	160
14	266	187	291	1310	4080	993	973	e480	140	74	78	156
15	264	208	295	905	3860	1130	875	e410	125	77	84	169
16	269	201	296	711	3790	1870	857	e330	114	87	97	161
17	294	199	244	653	3690	2340	754	e300	108	94	100	168
18	296	195	245	1360	3490	2410	622	e290	97	98	101	163
19	260	193	266	2500	3500	2280	526	e280	88	100	98	165
20	247	190	293	2810	3450	2040	475	e290	75	116	99	169
21	245	190	268	3170	3310	1710	456	e320	82	152	99	171
22	263	199	255	3330	3620	1410	427	e330	89	149	105	161
23	263	275	262	3430	3670	1180	391	e290	89	155	107	164
24	262	319	e250	3390	3840	998	357	e270	92	163	108	166
25	262	305	244	3430	3910	831	329	e250	96	191	123	172
26	252	270	270	3820	3810	707	308	e260	98	182	118	171
27	222	272	249	4290	3540	617	319	e280	106	169	114	164
28	202	280	251	4730	3080	551	307	e310	119	140	117	153
29	190	327	592	5030	---	529	304	e330	118	128	118	144
30	181	288	1310	5150	---	1310	290	e300	108	116	115	137
31	174	---	1430	5220	---	1770	---	e620	---	111	117	---
TOTAL	7800	6439	15542	86991	116990	51861	21632	13383	13538	3341	3093	4477
MEAN	252	215	501	2806	4178	1673	721	432	451	108	99.8	149
MAX	296	327	1980	5220	5320	3200	1730	1690	1990	191	123	172
MIN	174	166	203	579	3080	529	290	239	75	52	78	110
AC-FT	15470	12770	30830	172500	232000	102900	42910	26550	26850	6630	6130	8880
CAL YR 1989	TOTAL 547754		MEAN 1501		MAX 5220		MIN 142		AC-FT 1086000			
WTR YR 1990	TOTAL 345087		MEAN 945		MAX 5320		MIN 52		AC-FT 684500			

e Estimated.

MISSISSIPPI RIVER DELTA

07382500 BAYOU COURTABLEAU AT WASHINGTON, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.92	16.06	16.71	21.28	29.00	22.39	20.48	18.32	---	18.22	18.13	18.32
2	17.17	16.06	16.84	19.28	28.76	24.60	20.01	18.26	---	18.20	18.11	18.32
3	16.48	16.00	16.82	17.80	28.60	25.29	19.56	18.23	---	18.21	18.08	18.31
4	16.22	15.95	16.44	21.22	28.48	24.96	19.22	18.22	---	18.22	18.07	18.31
5	16.42	15.91	16.14	24.63	28.23	23.94	18.92	18.23	---	18.20	18.08	18.35
6	16.58	16.00	16.22	25.73	27.89	22.58	18.73	18.21	---	18.22	18.06	18.33
7	16.69	16.64	18.69	26.17	27.49	21.16	18.60	18.19	18.45	18.22	18.03	18.33
8	16.77	16.67	21.74	26.20	27.13	20.22	18.51	18.28	18.46	18.20	17.99	18.32
9	16.82	15.96	20.37	25.78	27.12	19.82	18.63	19.83	18.39	18.17	17.95	18.31
10	16.83	15.88	18.71	25.09	27.05	19.60	18.62	21.07	18.32	18.14	17.90	18.31
11	16.80	15.92	17.47	24.12	26.90	19.38	18.77	19.65	18.33	18.09	17.85	18.31
12	16.75	15.93	16.79	22.73	26.47	19.19	19.39	19.37	18.25	18.06	17.81	18.33
13	16.69	15.99	16.19	20.95	25.88	19.09	19.50	---	18.21	18.17	17.82	18.15
14	16.65	16.32	16.50	19.14	25.14	19.14	19.25	---	18.29	18.21	18.04	18.29
15	16.62	15.85	16.79	17.96	24.59	19.48	19.03	---	18.32	18.23	18.21	18.39
16	16.61	15.50	16.35	18.11	24.86	20.52	18.87	---	18.33	18.23	18.28	18.38
17	16.50	15.73	16.44	18.24	25.30	21.43	18.71	---	18.31	18.24	18.30	18.37
18	15.94	15.94	16.67	20.47	25.37	21.56	18.51	---	18.30	18.22	18.29	18.25
19	16.08	16.02	16.73	23.64	25.20	21.27	18.27	---	18.32	18.21	18.30	18.32
20	16.24	16.07	16.23	24.14	24.82	20.77	18.37	---	18.31	18.21	18.30	18.38
21	16.34	16.10	16.40	24.99	24.26	20.12	18.45	---	18.29	18.28	18.30	18.39
22	16.43	16.21	16.52	25.07	24.95	19.54	18.44	---	18.27	18.29	18.31	18.37
23	16.53	16.73	15.87	24.82	25.82	19.26	18.43	---	18.27	18.27	18.32	18.35
24	16.58	16.38	15.30	26.21	25.99	18.99	18.40	---	18.26	18.26	18.33	18.34
25	16.61	16.07	14.81	28.54	25.62	18.74	18.36	---	18.28	18.26	18.37	18.35
26	16.62	16.41	14.58	29.20	25.01	18.51	18.34	---	18.28	18.30	18.36	18.35
27	16.54	16.69	15.16	29.29	24.28	18.28	18.35	---	18.27	18.29	18.34	18.35
28	16.42	16.94	15.74	29.15	23.29	18.02	18.38	---	18.33	18.23	18.32	18.35
29	16.29	16.51	18.39	29.31	---	18.22	18.39	---	18.32	18.19	18.31	18.36
30	16.18	16.44	21.60	29.32	---	19.71	18.37	---	18.27	18.17	18.30	18.35
31	16.11	---	22.18	29.22	---	20.62	---	---	---	18.15	18.32	---
MAX	17.92	16.94	22.18	29.32	29.00	25.29	20.48	---	---	18.30	18.37	18.39
MIN	15.94	15.50	14.58	17.80	23.29	18.02	18.27	---	---	18.06	17.81	18.15

07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE, LA

LOCATION.--Lat 31°01'59", long 91°58'57", in NE 1/4 sec.29, T.1 N., R.5 E., Avoyelles Parish, Hydrologic Unit 08080102, near left bank on downstream side of bridge on State Highway 114 at Moreauville, and 150 ft downstream from point of diversion from Bayou des Glaisses.

DRAINAGE AREA.--270 mi². See REMARKS.

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

REVISED RECORDS.--WDR LA-77-1: 1973-76.

GAGE.--Water-stage recorder. Datum of gage is 23.46 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Prior to Oct. 13, 1950, nonrecording gage at same site. Prior to Sept. 30, 1961, at datum 4.84 ft higher. Water-stage recorder for Bayou des Glaisses diversion channel near Moreauville (station 07383510) used as auxiliary gage for this station since Apr. 17, 1972.

REMARKS.--Estimated daily discharges. Records fair. Diversion channel carries natural flow of Bayou des Glaisses except when operation of floodgates, 12 mi 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, 6.0 mi downstream. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 433 ft³/s, 313,700 acre-ft/yr. The figure published in the 1989 report was in error; the correct figure is 46 years, 435 ft³/s, 315,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,340 ft³/s, May 18, 1953, gage height, 22.68 ft, present datum; minimum, 2.7 ft³/s, Oct. 13, 14, 15, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,470 ft³/s, Jan. 25, gage height, 20.47 ft; minimum discharge, 5.6 ft³/s, Aug. 10, gage-height, 1.64 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	18	60	90	2030	900	570	132	619	29	90	61
2	59	12	48	74	1950	1320	418	134	691	37	90	63
3	59	9.2	32	73	1920	1170	296	127	698	64	109	76
4	57	11	28	855	1880	999	208	112	647	78	111	77
5	55	18	28	973	1740	e960	159	81	519	94	105	67
6	55	25	33	1010	1620	912	138	87	407	107	83	67
7	56	29	450	1080	1500	833	124	129	304	105	60	78
8	55	40	757	1010	1410	736	120	157	201	96	32	62
9	53	31	428	885	1630	563	118	800	136	78	9.2	52
10	50	20	233	831	1500	407	148	628	115	51	6.1	46
11	42	13	116	759	1370	336	397	390	88	28	12	51
12	37	11	73	612	1270	390	682	239	62	50	39	71
13	36	9.6	57	427	1180	372	655	182	47	98	52	74
14	36	11	49	259	1060	329	511	249	36	161	64	86
15	34	11	46	167	1150	271	396	200	38	134	64	64
16	34	13	47	123	1330	634	364	139	53	97	48	49
17	33	14	46	103	1330	737	283	119	67	81	27	41
18	34	9.7	47	461	1140	724	205	110	82	82	58	39
19	32	8.9	49	844	1300	612	166	108	74	85	82	44
20	32	14	51	1010	1160	439	140	120	51	82	74	69
21	28	28	55	1200	942	302	126	131	34	77	68	70
22	25	33	e58	1060	1700	219	138	150	18	69	64	66
23	23	43	e51	1060	1500	179	136	176	41	82	60	66
24	18	63	49	1710	1350	157	121	147	64	86	61	65
25	13	81	48	2400	1300	132	124	118	48	97	80	54
26	8.7	68	46	2220	1240	117	162	94	39	101	95	42
27	7.2	45	45	2100	1160	105	150	69	27	92	86	37
28	6.8	40	45	2030	1030	90	148	60	29	76	71	37
29	11	38	61	2150	---	116	152	212	25	80	64	36
30	18	47	87	2110	---	454	140	363	17	85	62	30
31	23	---	105	2090	---	638	---	353	---	82	66	---
TOTAL	1089.7	814.4	3328	31776	39692	16153	7495	6116	5277	2564	1992.3	1740
MEAN	35.2	27.1	107	1025	1418	521	250	197	176	82.7	64.3	58.0
MAX	59	81	757	2400	2030	1320	682	800	698	161	111	86
MIN	6.8	8.9	28	73	942	90	118	60	17	28	6.1	30
AC-FT	2160	1620	6600	63030	78730	32040	14870	12130	10470	5090	3950	3450

CAL YR 1989 TOTAL 198391.1 MEAN 544 MAX 2150 MIN 6.8 AC-FT 393500
WTR YR 1990 TOTAL 118037.4 MEAN 323 MAX 2400 MIN 6.1 AC-FT 234100

e Estimated.

MISSISSIPPI RIVER DELTA

07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE, LA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.80	2.41	2.81	3.10	13.65	9.35	6.62	3.31	6.94	2.26	2.57	2.33
2	2.80	2.35	2.70	2.95	13.38	11.69	5.52	3.33	7.41	2.34	2.56	2.35
3	2.80	2.31	2.54	2.93	13.27	10.17	4.59	3.27	7.46	2.58	2.72	2.47
4	2.79	2.34	2.51	9.23	13.14	9.53	3.92	3.14	7.13	2.71	2.73	2.49
5	2.76	2.41	2.50	10.48	12.65	9.13	3.54	2.86	6.25	2.85	2.67	2.40
6	2.76	2.47	2.56	10.80	12.19	8.71	3.36	2.92	5.44	2.96	2.46	2.41
7	2.77	2.52	5.76	10.83	11.69	8.26	3.25	3.29	4.66	2.93	2.23	2.51
8	2.76	2.62	7.93	9.64	11.25	7.68	3.21	3.52	3.87	2.84	1.95	2.37
9	2.74	2.54	5.67	8.56	12.82	6.56	3.20	8.60	3.34	2.66	1.71	2.27
10	2.71	2.43	4.25	8.25	11.84	5.43	3.44	6.99	3.16	2.40	1.65	2.22
11	2.64	2.36	3.33	7.84	11.08	4.89	5.32	5.30	2.93	2.16	1.75	2.28
12	2.60	2.34	2.93	6.95	10.60	5.30	7.35	4.16	2.68	2.36	2.02	2.47
13	2.59	2.32	2.78	5.67	10.16	5.16	7.19	3.72	2.54	2.81	2.16	2.51
14	2.58	2.34	2.70	4.45	9.69	4.85	6.20	4.25	2.43	3.34	2.27	2.62
15	2.56	2.35	2.68	3.75	10.77	4.41	5.35	3.86	2.45	3.10	2.28	2.42
16	2.56	2.36	2.68	3.38	12.41	7.03	5.11	3.37	2.60	2.78	2.12	2.28
17	2.56	2.37	2.68	3.21	11.13	7.69	4.50	3.21	2.73	2.62	1.93	2.21
18	2.57	2.32	2.69	5.76	10.16	7.61	3.90	3.12	2.87	2.62	2.23	2.19
19	2.54	2.30	2.71	8.33	11.05	6.90	3.60	3.11	2.80	2.64	2.47	2.25
20	2.54	2.37	2.72	9.66	10.06	5.67	3.38	3.21	2.57	2.60	2.40	2.48
21	2.50	2.50	2.76	11.11	9.85	4.64	3.26	3.30	2.40	2.55	2.34	2.51
22	2.47	2.55	---	9.73	14.35	4.01	3.36	3.46	2.24	2.46	2.31	2.47
23	2.46	2.65	---	9.57	12.00	3.70	3.34	3.67	2.45	2.57	2.28	2.48
24	2.41	2.83	2.71	14.97	11.01	3.52	3.22	3.44	2.66	2.60	2.29	2.47
25	2.36	3.01	2.70	20.25	10.75	3.31	3.24	3.20	2.50	2.70	2.47	2.36
26	2.30	2.89	2.68	18.65	10.44	3.19	3.56	2.99	2.41	2.73	2.63	2.27
27	2.27	2.67	2.67	16.69	10.04	3.08	3.46	2.75	2.28	2.63	2.54	2.22
28	2.26	2.62	2.67	15.05	9.61	2.95	3.44	2.67	2.29	2.47	2.41	2.22
29	2.34	2.60	2.82	15.43	---	3.17	3.48	3.94	2.24	2.50	2.34	2.21
30	2.41	2.69	3.08	14.69	---	5.77	3.38	5.10	2.16	2.55	2.32	2.16
31	2.46	---	3.23	14.03	---	7.08	---	5.03	---	2.51	2.37	---
MAX	2.80	3.01	---	20.25	14.35	11.69	7.35	8.60	7.46	3.34	2.73	2.62
MIN	2.26	2.30	---	2.93	9.61	2.95	3.20	2.67	2.16	2.16	1.65	2.16

MISSISSIPPI RIVER DELTA

259

07384400 STATE CANAL NEAR KROTZ SPRINGS, LA

LOCATION.--Lat 30°33'57", long 91°49'53", in SW 1/4 NW 1/4 sec.2, T.6 S., R.6 E., St. Landry Parish, Hydrologic Unit 08080101, on downstream side of bridge on U.S. Highway 71, 1.7 mi upstream from Slow Bayou, 2.0 mi northwest of the junction of U.S. Highways 71 and 190, and 5.0 mi northwest of town of Krotz Springs.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Annual peaks, water years 1960-67, October 1967 to current year (gage heights above 9.9 ft only).

GAGE.--Water-stage recorder. Datum of gage is 2.55 ft above National Geodetic Vertical Datum of 1929. Crest-stage gage prior to 1967 at datum 2.55 ft lower.

REMARKS.--No gage heights recorded below 9.99 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.64 ft, May 27, 1973; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.31 ft, Jan. 30; minimum, 11.05 ft, Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.87	11.25	12.15	15.82	18.17	16.58	14.42	12.42	13.94	13.88	11.71	11.42
2	11.82	11.29	12.10	15.83	18.09	16.78	14.45	12.38	14.04	13.71	11.73	11.42
3	11.74	11.27	12.04	15.70	18.02	16.84	14.50	12.38	14.13	13.57	11.79	11.40
4	11.65	11.25	11.96	15.89	18.05	16.83	14.46	12.37	14.19	13.43	11.86	11.37
5	11.57	11.21	11.89	16.28	17.97	16.78	14.40	12.34	14.23	13.27	11.89	11.37
6	11.52	11.22	11.85	16.60	17.87	16.71	14.33	12.30	14.29	13.13	11.89	11.40
7	11.47	11.40	12.96	16.81	17.75	16.62	14.25	12.25	14.35	12.96	11.89	11.39
8	11.42	11.52	15.00	16.88	17.66	16.51	14.19	12.25	14.42	12.81	11.87	11.35
9	11.38	11.56	15.35	16.87	17.62	16.40	14.10	12.46	14.50	12.69	11.82	11.30
10	11.34	11.54	15.23	16.84	17.71	16.30	14.01	12.84	14.58	12.56	11.81	11.26
11	11.31	11.50	14.96	16.78	17.65	16.19	13.91	13.52	14.67	12.45	11.83	11.24
12	11.28	11.46	14.70	16.69	17.56	16.08	13.80	13.47	14.73	12.35	11.79	11.23
13	11.25	11.42	14.34	16.52	17.45	16.00	13.69	13.39	14.80	12.42	11.74	11.21
14	11.23	11.43	14.01	16.28	17.33	15.89	13.59	13.28	14.84	12.38	11.71	11.19
15	11.21	11.52	13.77	16.00	17.27	15.82	13.50	13.14	14.88	12.33	11.72	11.17
16	11.20	11.62	13.56	15.73	17.28	15.76	13.39	12.99	14.92	12.30	11.71	11.14
17	11.25	11.62	13.39	15.42	17.21	15.73	13.26	12.88	14.94	12.30	11.68	11.12
18	11.28	11.62	13.29	15.20	17.13	15.64	13.13	12.79	14.95	12.27	11.63	11.10
19	11.27	11.62	13.20	15.49	17.12	15.52	13.00	12.74	14.96	12.20	11.61	11.09
20	11.29	11.62	13.12	15.87	17.05	15.36	12.91	12.75	14.95	12.14	11.61	11.09
21	11.31	11.62	13.04	16.23	16.99	15.21	12.83	12.79	14.92	12.09	11.61	11.11
22	11.33	11.67	12.94	16.39	17.03	15.06	12.76	12.82	14.89	12.06	11.62	11.17
23	11.33	11.97	12.79	16.45	17.00	14.91	12.73	12.86	14.85	12.03	11.62	11.25
24	11.33	12.11	12.67	16.94	16.95	14.76	12.67	12.94	14.77	12.03	11.60	11.21
25	11.33	12.14	12.51	17.54	16.89	14.63	12.59	13.00	14.69	12.05	11.57	11.18
26	11.31	12.13	12.39	17.79	16.81	14.50	12.50	13.07	14.59	12.01	11.56	11.15
27	11.30	12.12	12.32	17.96	16.72	14.40	12.48	13.16	14.49	11.95	11.53	11.12
28	11.28	12.19	12.29	18.06	16.62	14.33	12.50	13.32	14.37	11.89	11.50	11.10
29	11.27	12.25	13.28	18.25	---	14.31	12.49	13.50	14.22	11.86	11.49	11.08
30	11.26	12.21	14.71	18.26	---	14.49	12.47	13.63	14.06	11.82	11.47	11.06
31	11.26	---	15.51	18.24	---	14.46	---	13.73	---	11.75	11.45	---
MAX	11.87	12.25	15.51	18.26	18.17	16.84	14.50	13.73	14.96	13.88	11.89	11.42
MIN	11.20	11.21	11.85	15.20	16.62	14.31	12.47	12.25	13.94	11.75	11.45	11.06

MISSISSIPPI RIVER DELTA

303159091512300 BAYOU COURTABLEAU EAST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA

LOCATION.--Lat 30°31'59", long 91°51'23", in sec.16, T.6 S., R.6 E., St. Landry Parish, Hydrologic Unit 08080101, 6.0 mi west of Krotz Springs, and 0.8 mi southeast of Courtableau.

DRAINAGE AREA.--Indeterminate.

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

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 03...	0750	434	7.99	22.0	30	24	<1	7.0	4.0	11	700	K18
NOV 03...	0820	408	8.03	18.0	5	14	<1	9.2	4.4	15	250	K50
DEC 07...	1120	337	8.00	16.0	20	8.0	<1	10.0	9.6	31	3400	K2000
JAN 05...	0900	113	7.18	13.0	120	160	<1	7.6	5.5	58	K17000	3700
FEB 28...	0800	107	7.12	15.0	120	60	<1	7.4	5.7	65	1100	K200
MAR 29...	0815	205	7.41	18.0	--	--	<1	6.4	6.0	51	930	170
APR 27...	0725	311	7.75	23.0	40	--	<1	6.8	6.4	36	200	K10
MAY 17...	0650	222	7.61	25.0	20	--	<1	4.8	4.5	50	440	K56
JUN 26...	0740	291	7.68	30.0	30	--	<1	6.3	5.3	47	160	K32
JUL 24...	0720	396	7.92	28.0	5	25	<1	6.2	5.2	25	430	K50
AUG 21...	0745	479	8.02	29.0	5	25	<1	6.5	6.2	41	--	K140
SEP 25...	0800	463	7.94	25.0	5	15	<1	7.2	4.4	31	670	100

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 03...	150	40	13	26	3.8	135	36	30	41	0.03	0.74	0.32
NOV 03...	140	36	13	24	3.3	120	52	24	14	0.01	0.58	<0.20
DEC 07...	120	30	11	18	3.1	103	35	19	34	0.02	0.50	0.52
JAN 05...	36	9.2	3.2	5.7	2.8	32	8.0	4.9	368	0.12	0.36	1.1
FEB 28...	37	9.0	3.6	4.6	2.0	41	3.6	3.0	67	0.03	0.16	0.53
MAR 29...	82	21	7.2	8.1	2.6	79	11	7.9	30	0.03	0.25	0.52
APR 27...	100	26	8.5	18	4.6	87	26	24	48	0.02	0.44	0.30
MAY 17...	77	19	7.2	9.3	6.1	69	13	11	219	0.24	3.0	0.72
JUN 26...	100	28	7.8	12	3.0	92	18	16	39	0.01	0.31	0.45
JUL 24...	150	38	13	16	3.7	125	34	19	45	0.02	2.2	0.41
AUG 21...	170	44	15	31	4.4	127	46	40	53	0.02	2.0	0.32
SEP 25...	180	47	16	24	3.7	142	49	25	30	0.01	1.5	0.29

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

303159091512300 BAYOU COURTABLEAU EAST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)
OCT 03...	0.15	2	1	<10	<10	<1	<1	<10	<1	4	2	<25
NOV 03...	0.10	1	<1	<10	<10	<1	<1	<10	<1	4	5	<25
DEC 07...	0.16	2	1	<10	<10	<1	<1	<10	<1	3	2	<25
JAN 05...	0.45	2	1	<10	<10	<1	<1	<10	<1	13	8	160
FEB 28...	0.18	2	1	<10	<10	<1	<1	<10	<1	5	4	190
MAR 29...	0.24	3	1	<10	<10	<1	<1	<10	<1	3	3	140
APR 27...	0.17	2	1	<10	<10	<1	<1	<10	<1	3	2	50
MAY 17...	0.38	3	1	<10	<10	<1	<1	<10	<1	3	3	60
JUN 26...	0.15	4	3	<10	<10	<1	<1	1	<1	5	4	<25
JUL 24...	0.14	3	2	<10	<10	<1	<1	3	<1	2	2	<25
AUG 21...	0.14	3	2	<10	<10	<1	<1	1	<1	3	3	<25
SEP 25...	0.13	2	2	<10	<10	<1	<1	2	<1	1	1	<25

DATE	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	<1	<1	<0.1	<0.1	3	1	<1	<1	2	10	<10	6.0
NOV 03...	1	<1	<0.1	<0.1	2	2	<1	<1	1	20	20	4.3
DEC 07...	2	<1	<0.1	<0.1	2	<1	<1	<1	<1	20	10	6.1
JAN 05...	6	<1	<0.1	--	12	2	<1	<1	3	50	10	15
FEB 28...	3	<1	<0.1	<0.1	43	2	<1	<1	3	70	20	10
MAR 29...	2	<1	0.1	0.1	5	1	<1	<1	2	70	40	10
APR 27...	3	<1	<0.1	<0.1	3	<1	<1	<1	1	50	20	9.3
MAY 17...	<1	<1	<0.1	<0.1	4	<1	<1	<1	3	30	10	10
JUN 26...	1	<1	<0.1	<0.1	2	1	<1	<1	1	80	40	9.0
JUL 24...	<1	<1	<0.1	<0.1	<1	1	<1	<1	2	30	10	6.8
AUG 21...	1	<1	<0.1	<0.1	2	<1	<1	<1	2	20	10	7.4
SEP 25...	1	<1	<0.1	<0.1	2	1	<1	<1	2	20	10	6.1

< Actual value is known to be less than the value shown.

303159091512300 BAYOU COURTABLEAU EAST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)
OCT 03...	<0.01	2	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV 03...	<0.01	2	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
DEC 07...	<0.01	<1	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 05...	<0.01	1	3	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 28...	<0.01	10	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 29...	<0.01	7	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
APR 27...	2.0	2	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 17...	<0.01	6	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 26...	<0.01	6	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 24...	<0.01	3	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
AUG 21...	<0.01	6	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 25...	<0.01	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION. TOTAL (µG/L)	HEPTA- CHLOR. TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)
OCT 03...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV 03...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.25	<0.01
DEC 07...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01
JAN 05...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 28...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 29...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 27...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
JUN 26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 24...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

303159091512300 BAYOU COURTABLEAU EAST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)
OCT 03...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	8.5	0.3
NOV 03...	<0.01	0.15	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	4.3	<0.1
DEC 07...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	5.2	0.4
JAN 05...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.5	<0.1
FEB 28...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.5	<0.1
MAR 29...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	18	0.4
APR 27...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	6.0	0.2
MAY 17...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	4.2	0.1
JUN 26...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	11	1.1
JUL 24...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	4.8	0.4
AUG 21...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	5.7	0.5
SEP 25...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	3.0	<0.3

< Actual value is known to be less than the value shown.

303159091512700 BAYOU COURTABLEAU WEST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA

LOCATION.--Lat 30°31'59", long 91°51'27", in sec.16, T.6 S., R.6 E., St. Landry Parish, Hydrologic Unit 08080101, 6.0 mi west of Krotz Springs, and 0.8 mi southeast of Courtableau.

DRAINAGE AREA.--Indeterminate.

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

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 03...	0730	469	8.06	22.0	20	15	<1	9.7	6.6	10	800	K12
NOV 03...	0840	408	8.05	18.0	5	14	<1	9.3	3.3	12	230	44
DEC 07...	1135	399	7.93	16.0	20	7	<1	10.2	4.4	28	600	110
JAN 05...	0830	117	7.04	13.0	120	150	<1	7.6	4.0	48	K18000	3200
FEB 28...	0745	108	7.01	15.0	120	150	<1	7.1	6.9	73	3800	1000
MAR 29...	0845	262	7.54	18.0	10	25	<1	6.9	5.2	45	830	150
APR 27...	0740	311	7.65	23.0	30	--	<1	7.7	2.3	30	270	K20
MAY 17...	0710	286	7.60	25.0	30	85	<1	4.0	3.7	42	1300	230
JUN 26...	0800	256	7.60	30.0	50	--	<1	6.3	5.2	41	460	42
JUL 24...	0735	396	7.91	28.0	5	30	<1	6.4	3.4	38	2100	K72
AUG 21...	0800	417	7.90	29.0	5	25	<1	5.8	2.9	21	>50000	K70
SEP 25...	0810	464	8.01	25.0	5	15	<1	7.3	4.8	22	K1200	K53

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 03...	180	45	17	28	3.5	167	28	28	25	0.03	0.34	0.27
NOV 03...	150	37	13	24	3.3	119	52	23	16	0.01	0.57	0.20
DEC 07...	150	37	13	22	3.2	119	45	22	29	0.01	0.71	0.27
JAN 05...	39	10	3.3	5.5	2.8	33	7.6	5.4	343	0.11	0.37	0.53
FEB 28...	37	8.8	3.6	4.4	2.2	42	3.6	3.1	341	0.04	0.16	0.52
MAR 29...	110	27	9.3	10	2.9	105	9.6	12	33	0.02	0.20	0.47
APR 27...	110	30	8.5	20	3.8	86	33	28	65	0.03	0.49	0.29
MAY 17...	100	25	9.4	13	3.5	101	15	13	104	0.22	2.3	0.68
JUN 26...	100	29	7.3	13	2.9	81	24	18	77	0.02	0.74	0.45
JUL 24...	160	42	14	16	3.8	126	42	18	48	0.02	2.4	0.80
AUG 21...	160	44	13	20	3.9	126	44	22	52	0.01	2.1	0.40
SEP 25...	180	47	16	24	3.8	141	49	26	24	<0.01	1.3	0.36

< Actual value is known to be less than the value shown.

> Actual value is known to be greater than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

303159091512700 BAYOU COURTABLEAU WEST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)
OCT 03...	0.12	2	1	<10	<10	<1	<1	<10	<1	2	1	<25
NOV 03...	0.11	2	1	<10	<10	<1	<1	<10	<1	2	2	<25
DEC 07...	0.12	1	1	<10	<10	<1	1	<10	<1	3	3	<25
JAN 05...	0.36	3	1	<10	<10	<1	<1	<10	<1	10	4	120
FEB 28...	0.17	2	1	<10	<10	<1	<1	<10	<1	4	2	140
MAR 29...	0.18	3	1	<10	<10	<1	<1	<10	<1	3	3	70
APR 27...	0.13	1	<1	<10	<10	<1	<1	<10	<1	6	3	160
MAY 17...	0.38	4	1	<10	<10	<1	<1	<10	<1	6	4	25
JUN 26...	0.13	2	1	<10	<10	<1	<1	3	<1	4	2	<25
JUL 24...	0.14	2	2	<10	<10	<1	<1	1	<1	3	--	<25
AUG 21...	0.14	3	2	<10	<10	<1	<1	2	<1	3	3	<25
SEP 25...	0.12	2	2	<10	<10	<1	<1	2	<1	2	2	<25

DATE	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	<1	<1	0.1	0.1	<1	<1	<1	<1	2	20	10	6.9
NOV 03...	<1	<1	<0.1	0.1	2	1	<1	<1	1	10	10	4.4
DEC 07...	1	<1	<0.1	<0.1	4	<1	<1	<1	<1	20	20	4.6
JAN 05...	4	2	<0.1	<0.1	10	2	<1	<1	3	40	10	14
FEB 28...	2	<1	<0.1	<0.1	4	2	<1	<1	2	40	20	18
MAR 29...	2	<1	<0.1	<0.1	2	1	<1	<1	2	40	30	10
APR 27...	4	<1	<0.1	<0.1	4	<1	<1	<1	1	30	10	7.6
MAY 17...	3	<1	<0.1	<0.1	4	<1	<1	<1	3	30	10	9.1
JUN 26...	2	<1	<0.1	<0.1	2	<1	<1	<1	1	20	10	7.1
JUL 24...	1	<1	<0.1	<0.1	--	2	<1	<1	2	10	10	6.0
AUG 21...	1	<1	0.1	<0.1	2	<1	<1	<1	2	20	10	5.5
SEP 25...	1	<1	<0.1	<0.1	2	1	<1	<1	2	20	<10	5.7

< Actual value is known to be less than the value shown.

303159091512700 BAYOU COURTABLEAU WEST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)
OCT 03...	<0.01	3	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV 03...	<0.01	<1	3	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 07...	<0.01	5	3	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 05...	<0.01	<1	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 28...	<0.01	6	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 29...	<0.01	4	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
APR 27...	2.00	7	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 17...	<0.01	--	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 26...	<0.01	35	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 24...	<0.01	4	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
AUG 21...	<0.01	6	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 25...	<0.01	7	<1	<0.1	<0.1	0.01	<0.01	<0.01	<0.01	<0.01	0.05

DATE	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)
OCT 03...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV 03...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01
DEC 07...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 05...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 28...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR 29...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 27...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY 17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
JUN 26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL 24...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP 25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

303159091512700 BAYOU COURTABLEAU WEST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)
OCT 03...	<0.01	<0.01	<0.01	<0.5	<0.01	0.9	<0.1	<0.1	<0.1	25	1.3
NOV 03...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	4.5	<0.1
DEC 07...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.1	<0.1
JAN 05...	<0.01	<0.01	<0.01	<0.5	<0.01	0.2	<0.1	<0.1	<0.1	0.4	<0.1
FEB 28...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.8	<0.2
MAR 29...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	7.4	0.3
APR 27...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	4.2	0.3
MAY 17...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.3	0.2
JUN 26...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.9	0.2
JUL 24...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	4.7	0.2
AUG 21...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	5.4	0.5
SEP 25...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	4.6	0.3

< Actual value is known to be less than the value shown.

07385500 BAYOU TECHE AT ARNAUDVILLE, LA

LOCATION.--Lat 30°23'50", long 91°55'50", at NW corner sec.63, T.7 S., R.5 E., Louisiana Meridian, St. Landry Parish, Hydrologic Unit 08080102, near center of span on downstream side of bridge on State Highway 31, at Arnaudville, and 270 ft upstream from Bayou Fusilier.

DRAINAGE AREA.--Approximately 1,530 mi². See REMARKS.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 11, 1949, nonrecording 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. Water-stage recorder for Bayou Teche at Robin (station 07385470) used as auxiliary gage for this station. Prior to Feb. 4, 1953, auxiliary nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. No gage height record at base gage: Oct. 1-5, Jan. 20, 28, Feb. 8, and June 11 to Aug. 5. Records fair. Bayou Teche heads in Bayou Courtableau at Port Barre. At high stages, considerable flow bypasses station by way of 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 mi², into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Teche-Vermilion freshwater diversion canal operational during the year anytime the flow in Bayou Courtableau does not bypass by way of the Courtableau Weirs near Krotz Springs. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--41 years, 863 ft³/s, 625,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s, May 24, 1953; maximum elevation, 24.27 ft, May 23, 1953; minimum discharge, 53 ft³/s, Aug. 12, 1965, minimum elevation, 6.78 ft, Oct. 28, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,860 ft³/s, Jan. 24, elevation, 20.33 ft; maximum elevation, 21.02 ft, Jan. 25; minimum discharge, 418 ft³/s, Dec. 26, elevation, 11.27 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e970	644	732	1650	1730	1360	1200	1010	1060	e994	e1050	1090
2	e850	650	762	1370	1830	1910	1250	997	1090	e989	e1050	1090
3	e740	636	771	1060	1920	1900	1200	990	1080	e1000	e1050	1090
4	e690	628	735	1320	1910	1730	1110	987	1050	e996	e1050	1090
5	e700	621	677	1770	1770	1540	1070	985	1040	e996	e1050	1100
6	720	623	698	1960	1660	1360	1050	980	1020	e1000	1050	1090
7	731	735	1510	1740	1560	1260	1030	974	993	e1000	1040	1090
8	745	783	1840	1680	e1560	1190	1020	997	1000	e1000	1040	1090
9	752	675	1590	1850	1680	1160	1040	1120	997	e1000	1030	1090
10	760	619	1220	1650	1920	1140	1050	1180	980	e1000	1020	1090
11	758	619	964	1460	1860	1120	1050	1020	e1020	e994	1010	1090
12	752	621	894	1300	1720	1110	1080	1060	e994	e996	1010	1090
13	742	624	711	1160	1550	1100	1110	1050	e982	e1020	1010	1070
14	734	725	694	1010	1420	1100	1100	1010	e994	e1020	1030	1080
15	729	786	752	880	1410	1180	1080	977	e1000	e1020	1060	1100
16	728	705	716	917	1490	1210	1050	947	e1000	e1030	1080	1110
17	746	606	692	971	1460	1230	1040	966	e1000	e1030	1080	1100
18	646	620	729	1060	1460	1220	1020	991	e998	e1030	1080	1090
19	623	634	755	1320	1610	1200	989	1000	e1000	e1030	1080	1090
20	650	641	698	e1380	1500	1170	992	1000	e1000	e1030	1090	1100
21	671	645	676	1480	1410	1130	1020	999	e1000	e1040	1080	1100
22	688	685	711	1430	1480	1090	1030	986	e998	e1050	1090	1100
23	703	811	650	1370	1460	1090	1020	978	e996	e1050	1090	1100
24	715	736	558	1600	1450	1070	1010	977	e989	e1050	1090	1090
25	721	660	488	1830	1420	1060	1010	988	e987	e1050	1090	1090
26	723	678	436	2320	1380	1040	1010	998	e989	e1060	1100	1100
27	719	738	454	2700	1340	1010	1030	1000	e1040	e1060	1090	1100
28	704	831	549	e2460	1300	981	1030	979	e1120	e1060	1090	1100
29	683	773	1220	1850	---	988	1020	970	e1030	e1060	1090	1100
30	667	702	1750	1710	---	1190	1010	1020	e1000	e1050	1090	1100
31	654	---	1780	1750	---	1200	---	1040	---	e1050	1100	---
TOTAL	22414	20454	27412	48008	44260	38039	31721	31176	30447	31755	32960	32810
MEAN	723	682	884	1549	1581	1227	1057	1006	1015	1024	1063	1094
MAX	970	831	1840	2700	1920	1910	1250	1180	1120	1060	1100	1110
MIN	623	606	436	880	1300	981	989	947	980	989	1010	1070
AC-FT	44460	40570	54370	95220	87790	75450	62920	61840	60390	62990	65380	65080
CAL YR 1989	TOTAL 390558		MEAN 1070		MAX 2030		MIN 436		AC-FT 774700			
WTR YR 1990	TOTAL 391456		MEAN 1072		MAX 2700		MIN 436		AC-FT 776500			

e Estimated.

07385500 BAYOU TECHE AT ARNAUDVILLE, LA--Continued

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.36	12.75	16.60	18.67	15.42	14.75	13.94	14.17	---	---	13.88
2	---	12.39	12.88	15.45	18.05	17.65	14.95	13.90	14.30	---	---	13.88
3	---	12.33	12.92	14.15	17.74	17.59	14.76	13.87	14.25	---	---	13.88
4	---	12.29	12.76	15.23	17.63	16.92	14.39	13.86	14.14	---	---	13.88
5	---	12.26	12.51	17.08	17.08	16.16	14.22	13.85	14.06	---	---	13.91
6	12.68	12.27	12.60	17.85	16.63	15.44	14.13	13.83	13.98	---	13.71	13.87
7	12.75	12.77	16.04	18.16	16.25	15.00	14.05	13.81	13.89	---	13.68	13.86
8	12.81	12.97	17.35	18.07	---	14.73	13.98	13.90	13.92	---	13.66	13.86
9	12.84	12.50	16.36	17.39	16.73	14.59	14.07	14.40	13.90	---	13.62	13.86
10	12.87	12.25	14.83	16.62	17.69	14.51	14.13	14.67	13.83	---	13.59	13.85
11	12.87	12.25	13.76	15.82	17.44	14.43	14.15	14.00	---	---	13.56	13.85
12	12.84	12.26	13.46	15.15	16.88	14.36	14.25	14.18	---	---	13.53	13.88
13	12.80	12.27	12.66	14.58	16.21	14.33	14.37	14.12	---	---	13.52	13.79
14	12.76	12.72	12.59	13.94	15.68	14.33	14.35	13.94	---	---	13.61	13.80
15	12.74	12.99	12.84	13.40	15.64	14.67	14.26	13.82	---	---	13.73	13.89
16	12.74	12.63	12.68	13.56	15.96	14.80	14.14	13.69	---	---	13.82	13.91
17	12.81	12.19	12.58	13.79	15.82	14.90	14.07	13.77	---	---	13.84	13.90
18	12.37	12.25	12.74	14.18	15.85	14.84	13.99	13.88	---	---	13.85	13.84
19	12.27	12.32	12.85	15.25	16.43	14.75	13.87	13.93	---	---	13.85	13.83
20	12.39	12.35	12.61	---	15.99	14.62	13.88	13.93	---	---	13.86	13.90
21	12.48	12.37	12.51	15.92	15.65	14.48	13.99	13.91	---	---	13.85	13.90
22	12.56	12.54	12.66	15.72	15.92	14.31	14.03	13.86	---	---	13.88	13.89
23	12.63	13.09	12.39	15.49	15.85	14.28	13.99	13.82	---	---	13.88	13.87
24	12.68	12.77	11.97	16.41	15.80	14.23	13.97	13.82	---	---	13.88	13.85
25	12.70	12.43	11.63	20.88	15.68	14.16	13.96	13.87	---	---	13.88	13.86
26	12.72	12.52	11.36	20.78	15.52	14.08	13.96	13.91	---	---	13.89	13.86
27	12.70	12.78	11.45	20.21	15.35	13.98	14.03	13.92	---	---	13.88	13.86
28	12.63	13.18	11.92	---	15.18	13.84	14.02	13.83	---	---	13.87	13.86
29	12.54	12.93	14.79	20.36	---	13.86	13.99	13.79	---	---	13.86	13.86
30	12.47	12.62	16.99	19.99	---	14.70	13.97	14.00	---	---	13.87	13.86
31	12.41	---	17.12	19.33	---	14.77	---	14.09	---	---	13.89	---
MAX	---	13.18	17.35	---	---	17.65	14.95	14.67	---	---	---	13.91
MIN	---	12.19	11.36	---	---	13.84	13.87	13.69	---	---	---	13.79

MISSISSIPPI RIVER DELTA

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM, NEAR ST. MARTINVILLE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°04'15", long 91°49'45", on line between secs.8 and 17, T.11 S., R.6 E., St. Martin Parish, Hydrologic Unit 08080102, on right bank of concrete lock and dam, 3.5 mi south of St. Martinville, and 11 mi upstream from Loreauville Canal.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete dam. Datum of gage is mean low Gulf level or 0.78 ft below National Geodetic Vertical Datum of 1929. Water-stage recorder for Bayou Teche at Keystone Lock lower gage (station 07385702) used as auxiliary gage for this station.

REMARKS.--Estimated daily discharges. Records good, except those for the period of no gage-height, Nov. 30 to Dec. 10, which are fair. Bayou Teche heads in Bayou Courtableau at Port Barre. At high stages, considerable flow bypasses station by way of 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 D'Arbonne Bayou Culvert and since April 1956 through Bayou Courtableau Drainage Structure. Since April 1952, floodflow is diverted from Bayou Rapides (drainage area, 76.1 mi²) into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Teche-Vermilion freshwater diversion operational during the year anytime the flow in Bayou Courtableau does not bypass by way of Courtableau weirs near Krotz Springs. Dependent upon its gradient, Bayou Fusilier interchanges flow between Bayou Teche and Vermilion River. Water from irrigation is diverted through Ruth Canal (Station 07386700) into Vermilion River. Crest of dam raised from 8.0 ft to 9.47 ft in June 1957.

AVERAGE DISCHARGE.--31 years, 492 ft³/s, 365,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft³/s, Sept. 5, 1973, maximum gage height, 16.15 ft, Oct. 23, 1984; minimum discharge, no flow at times in 1962-64, 1972, and 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since July 1913, 24.30 ft, May 27, 1927; minimum, 0.75 ft, July 18, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,160 ft³/s, Jan. 29, gage height, 11.77 ft; minimum discharge, 178 ft³/s, Oct. 19, gage height, 9.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	228	e420	1090	1480	837	765	525	394	327	344	310
2	237	250	e440	945	1360	1210	773	516	409	312	343	313
3	267	217	e440	758	1290	1220	772	512	413	312	322	314
4	232	208	e420	691	1350	1170	645	517	406	302	318	315
5	222	208	e380	1090	1220	1060	557	506	379	298	316	327
6	242	217	e410	1210	1140	934	548	491	358	316	318	315
7	264	279	e1150	1380	1060	837	518	484	338	321	314	317
8	272	342	e1700	1310	1110	779	502	528	335	319	309	318
9	269	279	e1130	1200	1290	750	509	668	328	313	302	321
10	271	224	e700	1090	1320	745	539	643	308	301	295	319
11	275	212	624	961	1260	716	548	576	322	302	292	338
12	277	217	569	845	1170	706	527	540	314	320	292	358
13	275	227	449	748	1060	684	548	565	307	376	291	371
14	272	403	375	663	948	672	563	537	315	340	287	351
15	268	558	401	576	914	760	553	509	347	325	293	342
16	271	436	405	546	977	825	527	491	349	336	313	334
17	297	265	377	567	934	809	520	504	328	359	309	328
18	247	231	386	618	1040	772	505	500	327	345	312	327
19	195	234	407	701	1310	761	487	507	317	333	316	333
20	199	230	396	817	1050	733	494	515	318	332	316	341
21	215	223	374	877	950	711	526	506	336	331	333	335
22	235	308	387	876	1020	696	547	449	350	346	336	346
23	247	482	312	848	940	687	523	423	346	354	318	334
24	254	404	316	1140	911	681	514	408	332	384	323	313
25	253	351	300	1890	892	676	517	403	322	374	321	315
26	258	327	232	1840	871	667	518	410	324	339	331	323
27	265	353	224	1820	847	652	591	429	321	332	310	318
28	257	416	266	1730	822	640	563	412	400	336	311	311
29	242	414	709	1990	---	662	536	361	396	342	317	315
30	240	e400	1100	1760	---	913	537	362	353	329	329	317
31	234	---	1370	1610	---	792	---	385	---	322	340	---
TOTAL	7813	9143	17169	34187	30536	24757	16772	15182	10392	10278	9771	9819
MEAN	252	305	554	1103	1091	799	559	490	346	332	315	327
MAX	297	558	1700	1990	1480	1220	773	668	413	384	344	371
MIN	195	208	224	546	822	640	487	361	307	298	287	310
AC-FT	15500	18140	34050	67810	60570	49110	33270	30110	20610	20390	19380	19480

CAL YR 1989 TOTAL 202614 MEAN 555 MAX 2620 MIN 195 AC-FT 401900
WTR YR 1990 TOTAL 195819 MEAN 536 MAX 1990 MIN 195 AC-FT 388400

e Estimated.

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM, NEAR ST. MARTINVILLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.10	10.03	---	10.96	11.27	10.70	10.63	10.36	10.20	10.13	10.14	10.10
2	10.06	10.06	---	10.82	11.17	11.04	10.63	10.35	10.22	10.10	10.15	10.11
3	10.11	10.01	---	10.64	11.11	11.06	10.63	10.35	10.23	10.10	10.12	10.11
4	10.05	10.00	---	10.57	11.16	11.01	10.50	10.35	10.22	10.09	10.11	10.11
5	10.04	10.00	---	10.95	11.06	10.91	10.40	10.34	10.19	10.09	10.11	10.13
6	10.07	10.01	---	11.07	10.98	10.79	10.39	10.32	10.16	10.11	10.11	10.11
7	10.11	10.10	---	11.20	10.91	10.70	10.35	10.31	10.14	10.12	10.11	10.11
8	10.12	10.20	---	11.15	10.96	10.64	10.33	10.36	10.14	10.11	10.10	10.11
9	10.11	10.11	---	11.06	11.11	10.61	10.34	10.52	10.13	10.11	10.09	10.12
10	10.12	10.02	---	10.96	11.14	10.60	10.38	10.50	10.10	10.09	10.08	10.11
11	10.12	10.00	10.52	10.84	11.09	10.57	10.39	10.42	10.12	10.09	10.08	10.14
12	10.13	10.01	10.45	10.73	11.01	10.56	10.36	10.38	10.11	10.12	10.08	10.16
13	10.12	10.03	10.31	10.63	10.91	10.54	10.39	10.41	10.10	10.18	10.08	10.18
14	10.11	10.24	10.22	10.54	10.81	10.53	10.41	10.38	10.11	10.14	10.07	10.15
15	10.10	10.45	10.25	10.44	10.78	10.62	10.40	10.34	10.15	10.12	10.08	10.14
16	10.11	10.30	10.25	10.40	10.84	10.69	10.36	10.32	10.15	10.13	10.11	10.14
17	10.14	10.08	10.21	10.42	10.79	10.67	10.36	10.34	10.13	10.16	10.10	10.13
18	10.07	10.03	10.22	10.48	10.89	10.63	10.34	10.33	10.13	10.15	10.10	10.13
19	9.98	10.04	10.25	10.57	11.13	10.62	10.32	10.34	10.11	10.13	10.11	10.13
20	9.99	10.03	10.24	10.69	10.91	10.59	10.33	10.35	10.11	10.13	10.11	10.14
21	10.02	10.02	10.21	10.75	10.81	10.57	10.36	10.34	10.14	10.13	10.13	10.14
22	10.05	10.13	10.22	10.75	10.88	10.55	10.39	10.27	10.15	10.15	10.14	10.15
23	10.07	10.36	10.13	10.72	10.80	10.54	10.36	10.24	10.15	10.16	10.11	10.13
24	10.08	10.27	10.14	10.97	10.77	10.54	10.35	10.22	10.13	10.19	10.12	10.11
25	10.08	10.20	10.11	11.58	10.75	10.53	10.35	10.22	10.12	10.18	10.12	10.11
26	10.09	10.17	10.01	11.55	10.73	10.52	10.35	10.22	10.12	10.14	10.13	10.12
27	10.10	10.20	10.00	11.53	10.71	10.51	10.44	10.25	10.12	10.13	10.10	10.11
28	10.08	10.28	10.07	11.47	10.68	10.49	10.41	10.23	10.21	10.14	10.10	10.10
29	10.05	10.28	10.57	11.65	---	10.52	10.37	10.16	10.21	10.14	10.11	10.11
30	10.05	---	10.98	11.49	---	10.77	10.38	10.17	10.16	10.13	10.13	10.11
31	10.04	---	11.20	11.38	---	10.65	---	10.19	---	10.12	10.14	---
MAX	10.14	---	---	11.65	11.27	11.06	10.63	10.52	10.23	10.19	10.15	10.18
MIN	9.98	---	---	10.40	10.68	10.49	10.32	10.16	10.10	10.09	10.07	10.10

MISSISSIPPI RIVER DELTA

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM, NEAR ST. MARTINVILLE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-67, 1975 to current year.

REMARKS.--Location of sampling site was relocated approximately 2.2 miles upstream of lock and dam. The new location enables collection of more representative water sample.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: October 1974 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 522 micromhos July 22, 1980; minimum daily, 39 micromhos May 19, 1980.

WATER TEMPERATURES: Maximum daily, 36.0 °C July 8, 1980; minimum daily, 3.5 °C Jan. 19, 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 13...	1030	275	336	7.66	23.5	30	18	5.6	1.7	98	100
JAN 17...	1530	567	130	7.05	15.5	100	40	8.0	2.2	270	480
APR 05...	1300	557	145	7.22	20.0	120	61	6.2	3.0	210	240
JUL 02...	1600	312	296	7.56	31.5	15	27	--	2.3	510	120

DATE	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 13...	99	26	8.2	28	3.3	87	30	28	0.1	9.9	196
JAN 17...	38	8.8	3.8	8.2	2.8	34	9.0	10	<0.1	10	83
APR 05...	39	9.5	3.7	9.8	2.3	41	5.3	13	0.1	7.8	89
JUL 02...	95	26	7.2	20	3.0	80	17	24	<0.1	8.7	164

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS Al)	ARSENIC DIS-SOLVED (µG/L AS As)
OCT 13...	187	0.01	0.73	0.09	0.08	0.7	0.21	0.14	0.10	20	2
JAN 17...	75	<0.01	0.18	0.10	0.08	0.9	0.16	0.11	0.11	250	1
APR 05...	76	0.02	0.30	0.14	0.11	0.8	0.26	0.12	0.13	170	2
JUL 02...	160	0.03	0.70	0.08	0.06	0.6	0.26	0.11	0.11	20	2

< Actual value is known to be less than the value shown.

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM, NEAR ST. MARTINVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 13...	69	<0.5	<1	<1	<3	6	31	1	9	38	<0.1
JAN 17...	38	<0.5	<1	1	<3	5	210	1	4	70	0.1
APR 05...	44	<0.5	<1	<1	<3	3	190	1	<4	64	<0.1
JUL 02...	80	<0.5	1	<1	<3	4	38	<1	8	56	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 13...	<10	2	<1	<1	150	<6	<3	52	39	100
JAN 17...	<10	2	<1	<1	45	<6	9	--	--	--
APR 05...	<10	2	<1	1	52	<6	9	76	114	100
JUL 02...	<10	1	<1	<1	130	<6	25	64	54	100

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07385790 CHARENTON DRAINAGE CANAL AT BALDWIN, LA

LOCATION.--Lat 29°49'23", long 91°32'30", T.14 S., R.9 E., St. Mary Parish, Hydrologic Unit 08080102, about 35 ft southwest of Southern Pacific Railroad bridge and 0.7 mi south of Baldwin.

DRAINAGE AREA.--Indeterminate.

PERIOD OF DAILY RECORD.--Water years 1958-59, 1975 to September 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, March 1980 to September 1984, June 1990 to September 1990.

CHLORIDE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 36.0 C July 11, 1980; minimum daily, 4.0 C Jan. 19, 1977, Jan. 14, 1982 Dec. 30, 1983.

CHLORIDE: Maximum daily, 1,300 mg/L Dec. 9, 1980; minimum daily, 5.0 mg/L Apr. 27, 1980.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									27.0	30.0	31.0	31.0
2									27.0	30.0	31.0	31.0
3									28.0	31.0	31.0	31.0
4									29.0	31.0	31.0	30.0
5									30.0	29.0	31.0	30.0
6									31.0	29.0	31.0	31.0
7									30.0	30.0	31.0	31.0
8									30.0	30.0	30.0	30.0
9									31.0	30.0	30.0	30.0
10									31.0	30.0	30.0	30.0
11									31.0	30.0	30.0	30.0
12									---	30.0	30.0	29.0
13									29.0	28.0	30.0	29.0
14									30.0	28.0	29.0	29.0
15									30.0	28.0	29.0	30.0
16									31.0	28.0	29.0	30.0
17									31.0	28.0	29.0	30.0
18									31.0	29.0	30.0	29.0
19									31.0	29.0	30.0	30.0
20									32.0	29.0	30.0	30.0
21									30.0	29.0	29.0	30.0
22									30.0	29.0	30.0	29.0
23									29.0	29.0	29.0	29.0
24									29.0	29.0	29.0	29.0
25									30.0	28.0	29.0	26.0
26									28.0	29.0	29.0	26.0
27									28.0	32.0	29.0	26.0
28									28.0	30.0	29.0	27.0
29									30.0	30.0	29.0	27.0
30									30.0	30.0	30.0	27.0
31									---	32.0	---	---
MAX									31.0	32.0	31.0	31.0
MIN									27.0	28.0	29.0	26.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

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07385790 CHARENTON DRAINAGE CANAL AT BALDWIN, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									28	25	21	28
2									24	25	20	24
3									32	24	23	25
4									30	26	24	22
5									24	21	25	27
6									24	26	25	27
7									24	26	26	25
8									25	32	26	24
9									25	26	25	25
10									28	23	25	23
11									29	20	25	28
12									24	18	25	25
13									24	21	25	28
14									25	27	25	28
15									24	29	23	28
16									26	30	25	28
17									24	46	27	28
18									27	54	30	40
19									24	53	28	26
20									24	52	27	26
21									38	100	35	28
22									19	50	32	55
23									24	51	29	23
24									20	51	30	25
25									24	23	31	52
26									24	22	34	24
27									23	67	30	24
28									26	28	35	27
29									24	27	33	26
30									24	54	31	38
31									---	69	34	---
MAX									38	100	35	55
MIN									19	18	20	22

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07385800 BAYOU TECHE AT FRANKLIN, LA

LOCATION.--Lat 29°47'30", long 91°29'56", in sec.68, T.14 S., R.9 E., St. Helena Meridian, St. Mary Parish, Hydrologic Unit 08080102, on downstream side of bridge, 0.1 mi east of Willow Street and State Highway 182 intersection, at Franklin.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Records poor. No elevation record: Nov. 14 to Dec. 3. No velocity record: Nov. 14 to Dec. 3, Apr. 20 to May 23, July 13 to Aug. 9, and Sept. 20-22, 25. Discharge affected by tide and wind and with possible flow interchange between Charenton Canal and Wax Lake Outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 2,180 ft³/s, June 28, 1989; maximum elevation, 4.19 ft, Oct. 29, 1985; maximum negative discharge, -1,400 ft³/s, Apr. 5, 1988; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum positive discharge recorded, 901 ft³/s, Feb. 21; maximum elevation, 2.99 ft, Feb. 22; maximum negative discharge recorded, -814 ft³/s, Sept. 19, but may have been greater during the periods of no elevation record; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-247	-189	---	32	185	-57	-195	---	-191	-185	---	-211
2	-260	-220	---	52	178	-396	-286	---	-65	-138	---	-200
3	-258	-123	---	7.3	246	-109	-348	---	-166	-213	---	-232
4	-306	-290	-335	9.2	-153	-54	-173	---	-186	-291	---	-241
5	-331	-323	-340	39	117	-183	-234	---	-301	-245	---	-183
6	-314	-264	-282	49	121	-188	-206	---	-236	-195	---	-237
7	-278	-183	-193	20	19	-254	-310	---	-147	-208	---	-258
8	-276	-159	36	39	-3.7	-174	-197	---	-183	-299	---	-197
9	-257	-125	68	53	-50	-197	-238	---	-229	-278	---	-229
10	-295	-128	-98	41	-66	-180	-153	---	-265	-334	-224	-243
11	-264	-143	-169	-20	-168	-177	-296	---	-255	-368	-250	-259
12	-265	-120	-51	-152	-54	-154	-155	---	-250	-320	-285	-248
13	-206	-145	-96	-183	-15	-179	-121	---	-185	---	-301	-242
14	-157	---	-189	-277	71	-31	-69	---	-242	---	-302	-195
15	-77	---	-183	-290	247	-297	-327	---	-255	---	-302	-203
16	-19	---	-102	-282	-198	-515	-216	---	-269	---	-249	-221
17	-22	---	-193	-310	-156	-392	-170	---	-236	---	-265	-229
18	-91	---	-163	-267	-21	-221	-243	---	-227	---	-281	-243
19	-88	---	-150	-296	-218	-319	-51	---	-230	---	-304	-343
20	-151	---	-132	-276	21	-246	---	---	-156	---	-247	e-300
21	-254	---	-101	-312	81	-193	---	---	-168	---	-271	e-250
22	-213	---	8.7	-338	-99	-243	---	---	-230	---	-248	e-200
23	-195	---	-12	-278	-411	-157	---	---	-257	---	-224	-137
24	-131	---	-39	-120	-286	-130	---	-48	-169	---	-199	-104
25	-103	---	-117	-168	-144	-183	---	-146	-218	---	-194	e-150
26	-114	---	-114	-102	-177	-190	---	-77	-223	---	-197	-227
27	-109	---	-123	53	-191	-208	---	-122	-230	---	-230	-156
28	-164	---	-124	36	-175	-200	---	-250	-183	---	-231	-116
29	-148	---	-147	42	---	-136	---	-217	-164	---	-192	-137
30	-164	---	-27	149	---	-256	---	-134	-182	---	-172	-144
31	-189	---	-96	63	---	-336	---	-176	---	---	-205	---
TOTAL	-5946	---	---	-2986.5	-1299.7	-6555	---	---	-6298	---	---	-6335
MEAN	-192	---	---	-96.3	-46.4	-211	---	---	-210	---	---	-211

e Estimated.

MISSISSIPPI RIVER DELTA

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07385800 BAYOU TECHE AT FRANKLIN, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.72	1.19	---	1.18	2.20	2.01	2.20	2.08	2.34	1.65	1.81	1.51
2	1.70	1.28	---	1.11	2.33	1.95	2.11	2.20	2.55	1.63	1.76	1.70
3	1.50	.91	---	1.07	2.31	1.74	1.78	2.54	2.43	1.45	1.69	1.78
4	1.46	1.25	.62	1.14	1.96	1.91	1.72	2.44	2.35	1.52	1.59	1.75
5	1.68	1.48	.77	1.09	1.55	2.02	1.85	2.02	2.08	1.62	1.55	1.57
6	1.83	1.50	1.09	.97	2.05	2.10	1.97	1.52	2.07	1.66	1.53	1.88
7	1.71	1.75	1.43	1.15	1.94	2.11	1.32	1.71	2.13	1.62	1.55	1.92
8	1.29	1.90	.94	1.03	2.28	2.20	1.62	2.10	2.12	1.48	1.32	1.73
9	1.34	1.44	.44	1.25	2.44	2.16	1.76	2.48	2.11	1.58	1.42	1.74
10	1.69	1.39	1.03	1.12	2.42	2.16	1.78	2.04	2.05	1.72	1.39	1.78
11	1.73	1.42	1.33	1.00	1.99	2.21	1.47	2.04	1.93	1.70	1.58	1.95
12	1.90	1.47	.52	.90	1.95	2.26	1.46	2.51	1.84	1.71	1.65	2.08
13	1.79	1.57	.31	.69	2.05	2.20	1.79	2.56	1.88	1.55	1.81	2.06
14	1.64	---	.82	.97	1.99	2.39	1.93	2.35	1.85	1.28	1.91	1.97
15	1.92	---	1.00	.98	2.36	2.39	1.70	2.30	1.91	1.28	1.97	1.83
16	2.11	---	.09	1.06	2.21	2.28	1.69	2.38	1.94	1.65	2.02	1.75
17	1.97	---	.50	1.26	1.64	1.99	1.69	2.17	1.88	1.65	2.17	1.76
18	1.13	---	.74	1.32	1.86	1.95	1.49	1.82	1.73	1.74	2.26	1.77
19	.29	---	.68	1.38	1.92	1.82	1.58	2.03	1.54	1.80	2.12	1.86
20	.38	---	.37	1.62	1.93	1.36	1.82	2.26	1.69	1.82	1.96	1.80
21	.99	---	.38	1.25	2.26	1.49	1.88	2.19	1.81	1.90	1.80	1.91
22	1.12	---	-.90	1.23	2.72	1.75	1.80	1.90	1.93	1.97	1.79	1.62
23	1.26	---	-1.88	1.38	2.34	1.55	1.81	1.68	1.89	1.97	1.71	.92
24	1.26	---	-1.25	1.43	1.94	1.75	1.96	1.95	1.91	1.73	1.29	.87
25	1.17	---	-.03	1.79	1.81	1.74	2.14	2.08	1.92	1.50	1.05	1.38
26	1.25	---	.11	1.36	1.96	1.44	2.33	2.20	1.71	1.38	.94	1.46
27	1.18	---	.32	1.84	1.93	1.41	2.29	2.32	1.62	1.56	1.26	1.46
28	1.43	---	.48	1.84	1.90	1.78	2.09	2.29	1.55	1.79	1.58	1.55
29	1.49	---	.86	2.03	---	1.96	2.18	2.20	1.72	1.78	1.57	1.50
30	1.58	---	1.24	2.03	---	2.36	2.21	2.32	1.81	1.61	1.39	1.67
31	1.34	---	1.74	2.03	---	2.24	---	2.39	---	1.78	1.41	---
MAX	2.11	---	---	2.03	2.72	2.39	2.33	2.56	2.55	1.97	2.26	2.08
MIN	.29	---	---	.69	1.55	1.36	1.32	1.52	1.54	1.28	.94	.87

MISSISSIPPI RIVER DELTA

295325091313000 BAYOU TECHE AT CHARENTON, LA

LOCATION.--Lat 29°53'25", long 91°31'30", T.13 S., R.9 E., St. Mary Parish, Hydrologic Unit 08080102, 0.5 mi north of Charenton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to September 1984, June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, October 1980 to September 1984, June 1990 to September 1990.

CHLORIDE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 37.0°C Aug. 3, 4, 7, 1983; minimum daily, 0.0°C Jan. 20, 1983.

CHLORIDE: Maximum daily, 1,800 mg/L Sept. 23, 1984; minimum daily, 5.0 mg/L Apr. 13, 24, 25, May 9, June 2, 1980.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									29.0	33.0	34.0	32.0
2									29.0	33.0	34.0	32.0
3									31.0	33.0	34.0	32.0
4									31.0	33.0	35.0	32.0
5									31.0	31.0	35.0	32.0
6									31.0	31.0	35.0	32.0
7									31.0	31.0	35.0	30.0
8									31.0	32.0	35.0	30.0
9									31.0	32.0	35.0	30.0
10									31.0	32.0	35.0	29.0
11									31.0	30.0	35.0	29.0
12									31.0	30.0	30.0	29.0
13									33.0	30.0	30.0	29.0
14									33.0	29.0	30.0	29.0
15									33.0	29.0	30.0	29.0
16									33.0	29.0	31.0	29.0
17									33.0	29.0	31.0	29.0
18									33.0	30.0	32.0	29.0
19									33.0	30.0	32.0	29.0
20									33.0	30.0	32.0	29.0
21									33.0	31.0	32.0	29.0
22									33.0	31.0	32.0	28.0
23									33.0	31.0	32.0	28.0
24									33.0	34.0	32.0	28.0
25									33.0	34.0	32.0	28.0
26									33.0	34.0	32.0	28.0
27									33.0	34.0	32.0	28.0
28									33.0	34.0	32.0	28.0
29									33.0	34.0	32.0	28.0
30									33.0	34.0	32.0	28.0
31									---	34.0	32.0	---
MAX									33.0	34.0	35.0	32.0
MIN									29.0	29.0	32.0	28.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

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295325091313000 BAYOU TECHE AT CHARENTON, LA

CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									29	29	24	28
2									28	28	26	28
3									24	82	25	28
4									24	30	26	28
5									27	70	25	28
6									24	66	25	28
7									25	70	26	31
8									24	66	25	30
9									25	75	24	32
10									26	120	25	29
11									26	60	23	28
12									25	22	26	29
13									26	61	24	28
14									28	66	24	28
15									26	58	25	28
16									25	58	24	28
17									28	47	24	27
18									26	24	23	27
19									26	24	22	27
20									25	24	24	27
21									25	26	23	27
22									24	28	23	30
23									26	24	22	26
24									26	24	24	32
25									26	29	22	26
26									27	28	22	31
27									24	22	22	34
28									25	23	23	60
29									27	23	22	26
30									29	25	27	29
31									---	24	27	---
MAX									29	120	27	60
MIN									24	22	22	26

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07386200 BAYOU FUSILIER AT WEIR, AT ARNAUDVILLE, LA

LOCATION.--Lat 30°23'55", long 91°56'41", in center of N 1/2 sec.45, T.7 S., R.5 E., Louisiana Meridian, St. Landry Parish, Hydrologic Unit 08080103, on right bank 95 ft upstream from weir, 0.6 mi west of Arnaudville, and 0.9 mi downstream from point of diversion from Bayou Teche.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1980 to September 1982 (elevation only). October 1982 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 7-9, Jan. 5-10, Jan. 24 to Feb. 6, Feb. 10-12, Mar. 2-5 (). Records fair, except those above 660 ft³/s and indefinite stage-discharge relationship, which are poor. Bayou Fusilier is a distributary of Bayou Teche into the Vermilion River basin. For other diversions that occur in the Bayou Teche basin above this distributary, see Bayou Teche at Arnaudville (station 07385500). In extreme floods, reverse flow observed. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 21.97 ft, Oct. 31, 1985; minimum, 9.07 ft, June 11, 12, 13, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 765 ft³/s, Dec. 31; maximum daily reverse flow, -50 ft³/s, Jan. 26; no flow, Jan. 25, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	146	175	682	e210	459	368	284	305	272	265	298
2	216	147	185	503	e230	e300	390	280	318	269	265	300
3	176	142	188	328	e250	e240	374	277	313	271	263	300
4	155	140	175	458	e280	e370	330	275	302	270	261	301
5	158	138	155	e400	e310	e500	312	275	294	269	262	305
6	169	138	162	e350	e350	455	304	272	287	270	261	302
7	176	177	e250	e300	584	400	297	270	277	270	260	302
8	181	192	e15	e240	556	370	290	279	280	270	258	303
9	184	155	e350	e400	659	352	298	332	279	268	255	303
10	186	137	423	e450	e250	344	304	363	274	266	253	303
11	185	138	287	524	e325	335	307	291	282	264	251	304
12	183	138	257	427	e400	327	315	307	270	263	250	307
13	179	139	171	358	565	322	329	301	265	274	249	299
14	177	176	163	286	478	323	327	284	270	271	258	301
15	175	199	183	233	466	362	318	271	272	271	271	311
16	174	168	171	246	514	376	306	260	273	273	279	313
17	180	132	162	268	493	387	299	267	272	273	283	313
18	147	137	175	310	492	379	291	277	271	271	284	308
19	140	142	184	418	608	370	280	282	272	270	285	307
20	148	144	165	435	523	355	279	283	272	269	287	315
21	156	145	157	501	468	339	291	280	272	272	287	317
22	161	160	168	473	509	321	294	275	271	274	291	317
23	166	202	149	441	488	318	291	272	271	274	292	315
24	170	175	119	e200	473	313	289	271	269	274	291	314
25	172	149	97	e.00	458	306	288	276	271	274	293	315
26	173	157	82	e-50	442	298	285	280	274	274	295	317
27	171	177	89	e.00	427	288	292	281	293	274	294	317
28	166	211	116	e50	411	274	292	272	336	273	294	318
29	159	188	440	e100	---	275	288	268	290	270	294	319
30	153	164	754	e130	---	370	286	289	277	267	295	319
31	149	---	765	e170	---	376	---	296	---	266	299	---
TOTAL	5345	4753	6932	9631.00	12219	10804	9214	8790	8472	8386	8525	9263
MEAN	172	158	224	311	436	349	307	284	282	271	275	309
MAX	260	211	765	682	659	500	390	363	336	274	299	319
MIN	140	132	15	0	210	240	279	260	265	263	249	298

CAL YR 1989 TOTAL 90585.00 MEAN 248 MAX 765 MIN 0
WTR YR 1990 TOTAL 102334.00 MEAN 280 MAX 765 MIN 0

e Estimated.

07386200 BAYOU FUSILIER AT WEIR, AT ARNAUDVILLE, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.97	11.69	12.05	16.13	18.23	14.60	13.94	13.19	13.39	13.08	13.02	13.14
2	12.51	11.71	12.17	14.95	17.52	17.21	14.11	13.16	13.51	13.05	13.01	13.14
3	12.06	11.65	12.21	13.59	17.09	17.14	13.98	13.13	13.46	13.07	13.00	13.14
4	11.81	11.61	12.05	14.55	17.27	16.37	13.61	13.12	13.37	13.07	12.98	13.14
5	11.85	11.59	11.81	16.53	16.70	15.44	13.46	13.11	13.29	13.05	12.99	13.17
6	11.98	11.59	11.90	17.39	16.09	14.61	13.38	13.09	13.22	13.06	12.98	13.13
7	12.07	12.08	15.58	17.69	15.51	14.19	13.32	13.07	13.13	13.07	12.96	13.13
8	12.13	12.25	16.94	17.62	15.32	13.95	13.25	13.15	13.16	13.06	12.93	13.13
9	12.16	11.81	15.94	16.89	15.99	13.80	13.32	13.63	13.15	13.05	12.90	13.12
10	12.19	11.58	14.36	16.04	17.14	13.73	13.38	13.89	13.10	13.03	12.87	13.11
11	12.18	11.59	13.22	15.10	17.01	13.65	13.41	13.26	13.17	13.00	12.85	13.12
12	12.15	11.59	12.93	14.40	16.21	13.59	13.48	13.40	13.06	12.99	12.82	13.14
13	12.11	11.60	12.01	13.85	15.39	13.55	13.60	13.35	13.02	13.10	12.81	13.06
14	12.08	12.05	11.91	13.22	14.78	13.55	13.58	13.19	13.07	13.08	12.89	13.06
15	12.05	12.32	12.15	12.69	14.69	13.89	13.51	13.08	13.09	13.07	13.00	13.15
16	12.05	11.96	12.01	12.83	15.04	14.00	13.40	12.97	13.10	13.10	13.08	13.16
17	12.12	11.51	11.90	13.04	14.89	14.09	13.34	13.03	13.09	13.10	13.11	13.15
18	11.71	11.58	12.06	13.43	14.88	14.03	13.26	13.13	13.07	13.07	13.11	13.10
19	11.61	11.64	12.16	14.33	15.67	13.95	13.16	13.18	13.08	13.06	13.11	13.09
20	11.73	11.68	11.94	14.46	15.10	13.82	13.15	13.19	13.08	13.05	13.12	13.15
21	11.82	11.69	11.84	14.95	14.71	13.69	13.26	13.16	13.08	13.08	13.11	13.15
22	11.89	11.87	11.98	14.74	15.01	13.53	13.29	13.11	13.07	13.10	13.14	13.15
23	11.95	12.37	11.73	14.51	14.86	13.50	13.26	13.08	13.07	13.10	13.14	13.13
24	12.00	12.05	11.33	17.09	14.74	13.46	13.24	13.08	13.05	13.10	13.13	13.11
25	12.02	11.74	11.00	20.30	14.64	13.40	13.23	13.12	13.07	13.10	13.14	13.11
26	12.03	11.83	10.75	20.59	14.52	13.33	13.21	13.16	13.10	13.10	13.15	13.12
27	12.01	12.07	10.87	20.23	14.40	13.23	13.27	13.17	13.27	13.10	13.14	13.11
28	11.94	12.47	11.29	19.60	14.27	13.10	13.27	13.08	13.66	13.09	13.13	13.12
29	11.86	12.20	14.22	19.90	---	13.11	13.23	13.05	13.25	13.07	13.12	13.11
30	11.79	11.93	16.57	19.60	---	13.95	13.22	13.24	13.13	13.04	13.12	13.11
31	11.74	---	16.63	18.93	---	14.00	---	13.31	---	13.02	13.15	---
MAX	12.97	12.47	16.94	20.59	18.23	17.21	14.11	13.89	13.66	13.10	13.15	13.17
MIN	11.61	11.51	10.75	12.69	14.27	13.10	13.15	12.97	13.02	12.99	12.81	13.06

MISSISSIPPI RIVER DELTA

07386700 RUTH CANAL NEAR RUTH, LA

LOCATION.--Lat 30°14'35", long 91°53'05", in NE 1/4 NW 1/4 sec.95, T.9 S., R.6 E., St. Martin Parish, Hydrologic Unit 08080103, 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 mi northwest of Ruth, and 2.2 mi south of town of Breaux Bridge.

PERIOD OF RECORD.--August 1959 to current year. Elevations 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 National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 150 ft below control structure at same datum. Since July 12, 1973, water-stage recorder for Ruth Canal at Ruth (station 07386705) used as auxiliary gage for this station. Nov. 4, 1965 to July 11, 1973, auxiliary nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Total flow through control structure diverted from Bayou Teche for irrigation. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 802 ft³/s, Apr. 21, 1966; maximum daily reverse flow, 38 ft³/s, July 28, 1989 (backwater from Vermilion River); minimum daily (unaffected by backwater), 0.03 ft³/s, June 1, 1982.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	221	139	110	103	127	136	303	364	365	377	375
2	212	218	139	104	99	121	139	303	368	369	376	373
3	224	220	140	97	98	123	198	296	370	373	376	373
4	224	219	141	100	99	118	310	296	371	373	377	375
5	222	216	138	113	95	114	303	305	374	371	378	374
6	221	216	130	117	93	112	302	312	375	371	377	372
7	223	220	113	112	92	113	308	310	372	371	377	371
8	227	218	114	109	95	117	308	301	371	372	375	372
9	227	218	110	103	98	124	305	277	370	371	376	374
10	225	218	101	98	100	130	307	286	369	369	377	370
11	225	218	93	94	97	134	308	294	367	371	376	372
12	224	217	91	91	93	137	311	292	367	373	375	364
13	222	216	93	92	89	139	309	293	369	367	374	367
14	222	208	102	95	87	140	306	295	368	373	373	366
15	220	181	112	99	91	136	310	301	366	378	374	365
16	216	183	120	108	96	136	310	300	365	374	373	369
17	220	193	127	117	99	133	309	303	369	370	371	372
18	222	203	131	125	105	138	309	309	370	372	369	371
19	225	209	133	132	107	142	309	306	372	373	369	372
20	227	214	136	136	99	148	304	304	373	374	373	373
21	225	216	139	131	97	150	305	354	377	376	373	370
22	224	178	144	131	101	149	307	414	377	377	379	370
23	224	124	146	135	100	151	308	415	376	378	364	372
24	224	130	145	131	104	150	307	404	377	378	370	375
25	224	132	143	132	110	150	301	399	375	379	379	373
26	224	135	142	131	114	153	297	397	377	378	382	371
27	224	137	142	128	119	156	276	394	373	378	377	372
28	223	136	144	122	124	150	286	371	360	377	374	372
29	221	138	130	124	---	145	297	360	356	376	375	372
30	219	139	114	115	---	125	299	366	360	378	381	372
31	220	---	116	108	---	129	---	366	---	377	381	---
TOTAL	6963	5691	3908	3540	2804	4190	8684	10226	11098	11582	11628	11139
MEAN	225	190	126	114	100	135	289	330	370	374	375	371
MAX	283	221	146	136	124	156	311	415	377	379	382	375
MIN	212	124	91	91	87	112	136	277	356	365	364	364
AC-FT	13810	11290	7750	7020	5560	8310	17220	20280	22010	22970	23060	22090
CAL YR 1989	TOTAL 87867		MEAN 241	MAX 387	MIN 0	AC-FT 174300						
WTR YR 1990	TOTAL 91453		MEAN 251	MAX 415	MIN 87	AC-FT 181400						

MISSISSIPPI RIVER DELTA

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07386700 RUTH CANAL NEAR RUTH, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.90	9.00	9.57	11.76	12.92	11.10	10.80	10.05	9.62	9.44	9.46	9.41
2	8.99	9.02	9.64	11.32	12.58	12.12	10.84	10.04	9.65	9.40	9.45	9.42
3	9.32	8.94	9.63	10.75	12.46	12.25	10.77	10.05	9.63	9.41	9.41	9.42
4	9.21	8.95	9.62	10.67	12.53	12.04	10.41	10.03	9.57	9.38	9.40	9.46
5	9.20	8.97	9.52	11.81	12.21	11.69	10.17	9.98	9.52	9.38	9.38	9.48
6	9.26	8.97	10.05	12.17	11.97	11.31	10.11	9.95	9.50	9.39	9.38	9.42
7	9.30	9.21	11.22	12.50	11.74	11.04	10.04	9.94	9.47	9.39	9.39	9.41
8	9.32	9.37	12.08	12.44	11.75	10.88	9.99	10.05	9.46	9.38	9.39	9.41
9	9.32	9.16	11.73	12.14	12.06	10.79	10.02	10.36	9.44	9.38	9.38	9.41
10	9.33	8.96	11.13	11.78	12.39	10.76	10.09	10.35	9.39	9.36	9.36	9.41
11	9.34	8.92	10.52	11.42	12.28	10.72	10.08	10.17	9.42	9.38	9.36	9.44
12	9.34	8.92	10.31	11.06	12.00	10.67	10.06	10.15	9.41	9.45	9.36	9.49
13	9.31	8.99	9.98	10.80	11.68	10.66	10.13	10.13	9.40	9.57	9.35	9.49
14	9.30	9.64	9.83	10.56	11.39	10.66	10.16	10.06	9.40	9.49	9.35	9.46
15	9.29	10.10	9.85	10.31	11.29	10.83	10.11	10.01	9.48	9.45	9.35	9.44
16	9.31	9.74	9.81	10.24	11.40	10.98	10.06	9.97	9.48	9.50	9.44	9.42
17	9.34	9.20	9.73	10.32	11.34	10.94	10.03	9.96	9.42	9.52	9.43	9.41
18	9.16	9.04	9.76	10.40	11.55	10.87	9.97	9.97	9.39	9.48	9.44	9.39
19	9.00	8.98	9.80	10.74	12.08	10.80	9.95	10.01	9.37	9.46	9.45	9.39
20	9.04	8.94	9.76	10.93	11.61	10.74	9.98	10.04	9.37	9.46	9.45	9.40
21	9.12	8.88	9.69	11.14	11.40	10.69	10.06	9.96	9.44	9.47	9.43	9.40
22	9.16	9.30	9.66	11.14	11.54	10.63	10.08	9.76	9.47	9.49	9.44	9.39
23	9.18	10.00	9.60	11.04	11.37	10.59	10.04	9.72	9.46	9.51	9.46	9.36
24	9.19	9.80	9.51	11.95	11.30	10.57	10.04	9.68	9.44	9.55	9.46	9.31
25	9.19	9.63	9.40	13.88	11.25	10.55	10.04	9.67	9.44	9.51	9.48	9.33
26	9.19	9.57	9.33	13.88	11.17	10.51	10.06	9.68	9.44	9.44	9.48	9.34
27	9.20	9.66	9.33	13.82	11.09	10.48	10.22	9.71	9.45	9.43	9.40	9.33
28	9.18	9.77	9.48	13.58	11.02	10.45	10.14	9.62	9.67	9.45	9.42	9.32
29	9.12	9.72	10.90	14.13	---	10.47	10.11	9.50	9.63	9.45	9.43	9.32
30	9.10	9.56	11.84	13.67	---	11.04	10.07	9.52	9.52	9.42	9.52	9.32
31	9.05	---	12.02	13.28	---	10.86	---	9.57	---	9.40	9.52	---
MAX	9.34	10.10	12.08	14.13	12.92	12.25	10.84	10.36	9.67	9.57	9.52	9.49
MIN	8.90	8.88	9.33	10.24	11.02	10.45	9.95	9.50	9.37	9.36	9.35	9.31

MISSISSIPPI RIVER DELTA

07386880 VERMILION RIVER AT SURREY STREET, AT LAFAYETTE, LA

LOCATION.--Lat 30°13'02", long 91°59'34", on line between secs.76 and 142, T.9 S., R.5 E., Lafayette Parish, Hydrologic Unit 08080103, at bridge on Surrey Street at Lafayette, 0.6 mi north of Lafayette Airport, and 1.4 mi upstream from Coulee des Poches.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1967 to current year.

GAGE.--Water-stage recorders and electromagnetic flowmeter. Datum of gage is 2.07 ft below mean low Gulf level or 2.85 ft below National Geodetic Vertical Datum of 1929. Prior to 1982, datum of gage was 1.53 ft below mean low Gulf or 2.31 ft below National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1985, water-stage recorder for Vermilion River at State Highway 3073, near Lafayette (station 07386935) used as auxiliary gage for this station.

REMARKS.--Estimated daily discharges. Records poor. No gage-height record: Jan. 13, July 7-12, 21-23, and Sept. 24. No velocity record: Oct. 9-11, Nov. 18-19, Jan. 8-9, 13-14, Feb. 12, Mar. 12, 15, 21-22, July 4-12, 16, 21-23, and Sept. 22-24. Discharges are affected by tide at all stages; diversions above and below station for irrigation. Reverse flow at times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,280 ft³/s, July 17, 1989; maximum gage height 15.02 ft, May 17, 1980; maximum negative discharge, -5,480 ft³/s, July 14, 1989; minimum gage height 0.79 ft, Nov. 20, 1969; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum positive discharge recorded, 2,890 ft³/s, Feb. 12, but may have been higher during period of no gage-height or velocity record; maximum gage height, 11.65 ft, Jan. 29; maximum negative discharge recorded, -2,070 ft³/s, Dec. 6; but may have been higher during period of no gage-height or velocity record; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	644	288	298	2000	2720	1250	1230	444	664	736	642	502
2	605	302	322	2090	2700	1220	1050	325	513	629	664	501
3	515	349	316	2040	2490	1730	1160	226	600	561	671	524
4	499	281	289	1960	2580	1940	1020	312	669	537	669	516
5	439	257	314	1100	2740	1890	828	423	722	541	616	548
6	457	282	-736	1870	2700	1460	664	415	678	530	639	517
7	520	373	222	1840	2690	1170	727	235	599	e630	649	581
8	513	539	1210	1440	2120	1010	520	154	621	e720	712	641
9	e400	517	2210	754	1560	950	471	612	633	e480	701	598
10	e350	378	2120	498	2210	778	474	1140	619	e450	657	569
11	e300	330	1920	508	2770	715	586	851	768	e525	645	549
12	269	325	2030	518	2830	578	474	486	770	e620	653	479
13	318	275	1850	e680	2760	563	414	566	681	737	605	657
14	327	253	1590	1290	2700	451	455	592	624	877	601	665
15	244	731	1290	1810	2600	604	506	518	548	690	597	669
16	251	1160	1180	1610	2520	700	419	431	737	539	608	654
17	315	1030	949	1480	2480	879	448	519	719	613	585	600
18	360	e900	741	1310	1950	810	470	461	700	501	588	551
19	173	e700	776	1270	1710	695	382	392	657	386	644	543
20	241	492	717	1220	2430	672	355	403	538	506	627	547
21	239	427	599	1460	2340	748	407	452	484	e480	631	540
22	283	351	450	1470	2290	589	460	526	519	e540	594	569
23	280	816	307	1310	2320	498	444	449	597	e600	554	586
24	317	755	222	877	2250	436	369	464	612	754	730	e600
25	321	491	193	672	2140	449	311	499	550	803	702	614
26	314	386	265	2100	1970	442	259	497	564	715	660	601
27	335	327	227	2190	1820	343	309	500	537	696	571	605
28	304	394	243	2370	1680	226	826	586	966	692	515	574
29	311	456	-262	1200	---	189	629	777	962	696	546	583
30	279	339	1180	2500	---	630	503	601	859	691	540	531
31	332	---	1550	2740	---	1410	---	537	---	660	508	---
TOTAL	11055	14504	24582	46177	66070	26025	17170	15393	19710	19135	19324	17214
MEAN	357	483	793	1490	2360	840	572	497	657	617	623	574

e Estimated.

07386880 VERMILION RIVER AT SURREY STREET, AT LAFAYETTE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.97	4.15	3.47	9.53	11.16	7.71	6.41	5.41	6.01	5.47	5.13	4.91
2	5.01	4.49	3.70	9.38	11.11	9.28	6.05	5.46	6.03	5.19	5.14	5.14
3	4.59	3.84	3.23	9.23	11.17	8.41	6.08	5.94	5.83	4.89	5.04	5.21
4	4.36	4.20	3.22	9.07	11.34	9.05	5.74	5.79	5.58	4.86	4.92	5.20
5	4.56	4.60	3.65	9.89	11.06	9.02	5.51	5.07	5.27	4.99	4.81	5.19
6	4.84	4.58	6.22	10.27	10.92	8.89	5.52	4.44	5.21	5.02	4.79	5.28
7	4.67	4.76	9.42	10.56	10.75	8.62	4.84	4.71	5.34	---	4.75	5.35
8	4.28	5.21	9.90	10.53	10.82	8.16	4.90	5.51	5.36	---	4.82	5.25
9	4.28	4.65	9.46	10.39	11.38	7.53	5.18	6.95	5.35	---	4.79	5.17
10	4.58	4.24	9.31	10.29	11.47	6.97	5.20	6.41	5.35	---	4.71	5.29
11	4.60	4.25	9.20	10.14	11.19	6.57	4.95	5.93	5.40	---	4.86	5.41
12	4.86	4.33	9.06	9.94	10.99	6.24	4.70	6.19	5.37	---	4.90	5.81
13	4.84	4.74	8.61	---	10.83	5.95	5.20	6.10	5.29	5.36	4.97	5.80
14	4.80	6.51	7.96	9.22	10.62	6.00	5.43	5.84	5.39	4.46	5.07	5.72
15	5.11	8.10	7.26	8.73	10.42	6.44	4.96	5.49	5.70	3.92	5.14	5.61
16	5.48	7.39	6.34	8.10	10.21	6.63	4.86	5.48	5.70	4.26	5.17	5.32
17	5.19	6.31	5.66	7.50	9.91	6.72	4.92	5.20	5.38	4.32	5.30	5.22
18	4.31	5.71	5.32	6.88	9.95	6.18	4.62	4.80	5.17	3.92	5.42	5.26
19	3.09	5.14	5.12	6.61	10.62	5.65	4.69	5.11	4.90	3.61	5.33	5.26
20	3.02	4.69	4.49	6.52	10.30	4.89	5.22	5.30	4.92	3.41	5.16	5.23
21	3.79	4.36	4.16	6.89	10.12	4.69	5.21	5.14	5.03	---	5.11	5.33
22	4.19	4.93	3.16	6.90	10.16	4.90	5.06	4.91	5.17	---	5.11	5.33
23	4.31	6.20	2.11	6.58	9.90	4.53	4.97	4.71	5.12	---	5.35	4.95
24	4.30	5.23	1.67	8.32	9.55	4.63	5.15	5.07	5.04	5.36	5.20	---
25	4.24	4.88	2.39	10.73	9.17	4.58	5.56	5.27	5.22	5.12	4.74	4.92
26	4.25	4.38	3.04	10.15	8.77	4.13	5.83	5.34	5.01	4.94	4.54	5.02
27	4.26	4.30	3.11	10.16	8.30	3.88	7.01	5.45	5.15	4.98	4.73	4.98
28	4.38	4.68	3.31	10.27	7.78	4.58	6.24	5.79	5.97	5.10	5.06	4.98
29	4.44	3.78	7.63	11.45	---	5.13	5.81	5.93	6.11	5.16	5.13	4.94
30	4.57	3.12	9.53	11.22	---	7.84	5.65	5.86	5.88	4.93	4.88	5.00
31	4.31	---	9.47	11.18	---	7.00	---	5.94	---	4.97	4.81	---
MAX	5.48	8.10	9.90	---	11.47	9.28	7.01	6.95	6.11	---	5.42	---
MIN	3.02	3.12	1.67	---	7.78	3.88	4.62	4.44	4.90	---	4.54	---

MISSISSIPPI RIVER DELTA

07386980 VERMILION RIVER AT PERRY, LA

LOCATION.--Lat 29°57'04", long 92°09'22", on line between secs.60 and 61, T.12 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, at bridge on State Highway 82 at Perry, 2.0 mi south of Abbeville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1978 to September 1984 (gage heights only) October 1984 to current year. Unpublished gage-height records, August 1960 to September 1978, available in files of the Louisiana District Office, Baton Rouge, La.

REVISED RECORDS.--WDR LA 80-3: 1979.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 3.34 ft below National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Highways). Prior to 1982 datum of gage 2.95 ft below National Geodetic Vertical of 1929.

REMARKS.--No estimated daily discharges. Records poor. No velocity records, Dec. 22-24, and Jan. 25-26; no gage-height records, Dec. 22-24. Discharge affected by tide at all stages. Reverse flow at times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 15,800 ft³/s, Oct. 28, 1985; maximum gage height recorded, 12.06 ft, May 31, 1979; maximum negative discharge recorded, -2,800 ft³/s, Aug. 15, 1985; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,720 ft³/s, Feb. 9, gage height, 8.65 ft; maximum negative discharge, -1,650 ft³/s, May 7; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-47	-126	-176	1010	1730	1310	889	176	120	314	198	-237
2	116	519	30	770	1890	3230	990	-43	-136	230	244	-153
3	83	1.2	83	895	2110	1900	1080	-140	-15	392	250	-182
4	31	-108	-104	1270	4240	1480	687	457	-58	333	318	-94
5	-211	-197	172	1940	2530	1520	609	664	-55	488	227	151
6	-.93	-88	1420	30	2400	1280	771	270	-125	343	264	52
7	104	-107	4310	1720	2580	1040	524	-216	-133	263	108	140
8	357	171	4230	1600	3570	929	195	91	-43	321	331	304
9	-176	219	1700	1580	4980	776	377	1600	-31	385	387	126
10	26	28	1610	2120	4280	493	530	961	136	246	108	183
11	-238	-8.6	1770	2220	3360	381	769	-98	165	578	-4.2	202
12	-151	-58	1540	1340	2370	345	63	-98	162	787	-.42	546
13	-144	-33	1240	2160	2160	123	138	545	2.3	1080	-120	521
14	-143	478	1080	2010	1990	-143	678	368	146	736	-128	243
15	-498	1710	978	1590	1480	1110	359	-138	195	327	-158	406
16	-146	1660	826	1470	1930	1670	320	-82	324	-230	-157	176
17	308	409	388	990	756	1100	510	168	47	-168	-170	31
18	619	345	212	872	1630	598	360	-63	25	-260	-19	143
19	265	202	439	511	4650	829	9.7	-153	-93	-237	4.5	133
20	-150	91	202	1040	2320	403	102	-212	-185	-212	-98	156
21	-291	-134	393	1300	1750	68	173	-150	-99	101	-33	130
22	-71	176	---	949	2580	302	269	-39	80	533	68	470
23	-140	1650	---	952	2360	154	103	-111	386	739	176	713
24	-108	43	---	1130	1670	104	-121	-185	142	676	234	96
25	-59	95	-268	---	1430	271	-147	-56	490	427	-27	120
26	-54	-103	92	---	1320	289	-231	-54	398	306	-149	106
27	17	-118	-82	1810	1070	-102	1890	58	401	218	-136	126
28	-137	292	-31	2110	960	-147	858	540	483	219	-228	139
29	-62	117	955	5110	---	125	135	421	447	393	-36	183
30	62	-106	1240	3330	---	2970	259	22	401	69	-22	78
31	250	---	1950	2540	---	1480	---	189	---	-8.4	-87	---
TOTAL	-588.93	7019.6	---	---	66096	25888	13148.7	4692	3577.3	9388.6	1344.88	5008
MEAN	-19.0	234	---	---	2361	835	438	151	119	303	43.4	167

07386980 VERMILION RIVER AT PERRY, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM) WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.70	4.27	3.65	5.01	5.62	5.20	5.11	5.21	5.49	4.58	4.71	4.60
2	4.62	4.17	3.67	4.53	5.81	5.99	4.78	5.69	5.88	4.40	4.58	4.92
3	4.35	3.74	2.83	4.72	5.72	4.64	4.22	6.40	5.29	4.07	4.42	4.96
4	4.35	4.40	3.48	4.81	5.89	4.83	4.42	5.67	4.86	4.31	4.27	4.78
5	4.83	4.76	3.72	5.66	4.37	5.05	4.71	4.35	4.45	4.50	4.20	4.61
6	4.97	4.64	5.13	5.73	5.43	5.48	4.82	4.09	4.78	4.47	4.25	5.04
7	4.63	4.57	6.62	5.95	5.12	5.64	3.63	4.97	5.04	4.39	4.38	4.97
8	4.08	4.75	6.28	5.12	5.80	5.69	4.86	5.85	5.03	4.12	4.34	4.65
9	4.53	4.10	3.83	4.95	8.22	5.39	5.16	6.35	5.06	4.63	4.25	4.68
10	4.79	4.25	4.41	4.62	7.19	5.41	4.92	4.73	4.99	4.70	4.32	4.87
11	4.82	4.39	4.80	4.49	5.55	5.72	4.02	5.38	4.74	4.65	4.58	5.08
12	5.10	4.53	3.67	4.31	4.97	5.67	4.44	6.42	4.59	4.75	4.53	5.58
13	4.95	4.92	3.25	4.14	5.39	5.54	5.17	5.99	4.78	4.43	4.78	5.34
14	4.88	5.11	4.27	4.77	5.40	6.13	4.97	5.63	4.81	3.73	4.85	5.11
15	5.56	5.69	4.37	4.53	6.00	5.49	4.20	5.44	4.93	4.11	4.92	4.87
16	5.64	3.44	2.78	4.58	5.59	4.83	4.57	5.60	4.94	5.03	4.96	4.69
17	5.08	3.90	3.87	4.76	4.40	4.37	4.63	4.88	4.76	5.16	5.18	4.81
18	3.47	4.69	4.05	4.55	5.00	4.64	4.12	4.69	4.42	5.03	5.26	4.91
19	1.95	4.49	3.78	4.78	6.74	4.28	4.60	5.30	4.13	4.92	4.97	4.94
20	2.95	4.23	3.24	4.47	5.30	3.59	5.38	5.44	4.46	4.96	4.78	4.89
21	4.04	4.11	3.38	3.72	5.72	4.29	5.17	5.04	4.63	4.97	4.67	5.04
22	4.36	4.57	---	3.88	6.33	4.79	4.73	4.52	4.83	5.00	4.73	4.67
23	4.48	3.64	---	4.35	4.88	4.40	4.86	4.52	4.52	4.88	4.62	3.86
24	4.44	4.07	---	4.75	4.27	4.71	5.33	5.07	4.65	4.71	4.06	3.99
25	4.35	4.68	2.81	6.17	4.51	4.60	5.83	5.18	4.81	4.34	3.74	4.53
26	4.41	4.44	3.12	4.77	5.07	4.02	6.20	5.25	4.30	4.17	3.68	4.60
27	4.30	4.44	3.37	5.24	5.11	4.09	6.02	5.37	4.34	4.55	4.32	4.47
28	4.60	4.08	3.58	5.28	5.05	4.98	4.95	5.30	4.58	4.73	4.76	4.59
29	4.64	2.61	5.67	6.65	---	5.37	5.26	5.16	5.02	4.61	4.54	4.51
30	4.68	2.82	6.15	5.79	---	6.54	5.33	5.71	4.91	4.30	4.03	4.76
31	4.11	---	6.81	5.30	---	5.27	---	5.74	---	4.59	4.22	---
MAX	5.64	5.69	---	6.65	8.22	6.54	6.20	6.42	5.88	5.16	5.26	5.58
MIN	1.95	2.61	---	3.72	4.27	3.59	3.63	4.09	4.13	3.73	3.68	3.86

MISSISSIPPI RIVER DELTA

294920092092500 MEAUX CANAL AT CONTROL STRUCTURE (OUTSIDE) NEAR ESTHER, LA

LOCATION.--Lat 29°49'20", long 92°09'25", T.14 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, 1.9 mi southeast of Esther.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1990 to September 1990.

CHLORIDE: June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									28.5	31.0	31.0	30.0
2									29.5	30.5	30.5	30.0
3									30.0	31.0	30.5	30.0
4									30.0	30.0	30.0	30.5
5									30.0	29.0	31.5	30.0
6									30.0	29.5	30.5	30.5
7									30.0	30.0	30.0	31.0
8									30.5	30.0	28.0	30.5
9									30.5	30.0	28.0	30.5
10									30.5	30.0	28.0	30.0
11									30.0	30.0	29.5	29.5
12									30.5	30.0	30.0	28.5
13									31.0	28.0	30.0	27.5
14									30.5	27.5	30.0	27.0
15									31.0	27.5	29.5	28.0
16									31.0	29.0	30.0	29.0
17									31.0	26.0	30.0	28.5
18									31.0	26.5	30.5	29.5
19									31.0	28.0	30.0	30.0
20									31.5	28.0	30.0	30.0
21									31.0	29.0	30.5	30.0
22									31.5	30.0	30.0	30.0
23									31.0	30.0	29.0	29.5
24									30.0	27.0	29.5	26.5
25									30.0	28.0	30.0	25.5
26									30.0	29.0	30.0	26.0
27									31.0	31.0	31.0	26.0
28									30.0	31.0	31.5	26.5
29									31.0	31.0	31.5	26.5
30									31.0	30.5	31.0	27.0
31									---	31.0	31.5	---
MAX									31.5	31.0	31.5	31.0
MIN									28.5	27.5	28.0	25.5

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

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294920092092500 MEAUX CANAL AT CONTROL STRUCTURE (OUTSIDE) NEAR ESTHER, LA
 CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									50	26	62	45
2									55	34	62	45
3									60	54	58	44
4									42	36	56	45
5									40	44	58	44
6									40	43	60	43
7									44	52	62	43
8									58	54	60	49
9									45	52	58	55
10									54	49	58	56
11									53	29	27	56
12									54	160	26	54
13									52	150	25	55
14									33	120	34	64
15									30	120	34	60
16									34	120	40	56
17									32	100	56	54
18									33	74	65	54
19									35	75	64	56
20									20	82	82	57
21									41	74	78	54
22									42	76	77	50
23									42	84	41	50
24									43	57	43	56
25									51	52	54	55
26									51	56	47	56
27									30	62	44	170
28									44	60	46	41
29									26	63	45	70
30									27	65	47	69
31									---	54	47	---
MAX									60	160	82	170
MIN									20	26	25	41

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

294921092092600 MEAUX CANAL AT CONTROL STRUCTURE (INSIDE) NEAR ESTHER, LA

LOCATION.--Lat 29°49'21", long 92°09'26", T.14 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, 1.9 mi southeast of Esther.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1990 to September 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1990 to September 1990.

CHLORIDE: June 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									28.0	30.0	30.0	30.0
2									29.0	30.0	30.0	29.5
3									29.0	30.0	30.0	29.5
4									29.5	29.5	30.0	29.5
5									30.0	29.0	31.0	29.5
6									29.5	29.5	30.0	29.5
7									30.0	30.0	30.0	30.0
8									31.0	30.5	28.5	30.0
9									30.5	30.0	28.0	30.0
10									30.0	30.0	28.0	30.0
11									30.0	30.0	29.0	29.0
12									30.0	30.0	30.0	27.5
13									30.5	29.0	30.0	27.0
14									30.5	27.0	29.5	27.0
15									30.5	28.0	29.0	28.0
16									30.0	28.5	29.5	28.0
17									30.0	26.0	30.0	28.5
18									30.0	26.5	31.0	29.0
19									31.0	28.0	30.0	30.0
20									32.0	28.0	30.0	30.0
21									30.5	29.0	30.0	30.0
22									30.5	29.5	30.0	30.0
23									31.0	30.0	29.0	29.0
24									29.5	26.5	29.5	26.0
25									29.5	27.5	30.0	24.5
26									29.5	29.5	31.0	26.0
27									30.5	30.0	31.0	25.0
28									29.5	30.5	31.0	26.5
29									30.0	30.0	31.0	26.0
30									30.0	30.0	31.5	27.0
31									---	30.0	30.5	---
MAX									32.0	30.5	31.5	30.0
MIN									28.0	26.0	28.0	24.5

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

294921092092600 MEAUX CANAL AT CONTROL STRUCTURE (INSIDE) NEAR ESTHER, LA
 CHLORIDE, WATER, DISSOLVED, (MG/L AS CL), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									48	34	63	50
2									50	72	60	47
3									51	76	54	49
4									44	42	58	47
5									46	47	59	48
6									40	47	59	46
7									48	52	60	46
8									57	55	61	52
9									43	56	62	57
10									66	49	62	55
11									56	30	24	55
12									56	160	26	52
13									58	160	25	52
14									38	120	30	58
15									30	120	36	54
16									33	120	34	50
17									34	110	44	50
18									34	66	64	50
19									42	100	73	54
20									24	71	80	51
21									27	74	70	44
22									29	74	68	50
23									29	78	46	52
24									31	55	50	54
25									36	62	44	56
26									38	73	52	37
27									38	60	53	52
28									45	84	54	170
29									46	70	52	180
30									34	64	62	57
31									---	62	54	---
MAX									66	160	80	180
MIN									24	30	24	13

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

08010000 BAYOU DES CANNES NEAR EUNICE, LA

LOCATION.--Lat 30°29'00", long 92°29'25", in SW 1/4 SE 1/4 sec.32, T.6 S., R.1 W., Louisiana Meridian, Evangeline Parish, Hydrologic Unit 08080201, on left downstream side of bridge of eastbound lane on U.S. Highway 190, 3.0 mi downstream from Missouri Pacific Railroad bridge, and 4.0 mi west of Eunice.

DRAINAGE AREA.--131 mi².

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

REVISED RECORDS.--WSP 1242: 1950(P).

GAGE.--Water stage recorder. Datum of gage is 14.84 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers levels). Prior to Mar. 23, 1989, nonrecording gage read twice daily. Prior to Dec. 12, 1987, water-stage recorder at same site and datum. Prior to Jan. 17, 1940, nonrecording gage at same site and datum. Water-stage recorder for Bayou des Cannes at State Highway 755, near Eunice (Station No. 08010010) used as auxiliary gage for this station from November 1950 to September 1984. See WSP 1732 for history of changes prior to Jan. 13, 1958.

REMARKS.--Records poor. Small diversion above station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--52 years, 272 ft³/s, 28.20 in/yr, 197,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s, May 20, 1953, gage height, 22.36 ft; no flow at times in 1939, 1948, 1955-56, 1964, 1971, 1975-77.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,130 ft³/s, Jan. 26, gage height, 18.80 ft; minimum daily discharge, 3.5 ft³/s, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.8	21	13	1120	201	421	150	63	940	29	57	e9.0
2	e4.6	29	11	297	127	2670	242	56	443	23	41	e8.0
3	e4.5	17	8.9	120	386	2520	464	54	90	19	50	e7.0
4	e4.4	9.7	7.2	1300	1410	804	161	52	54	131	47	e6.0
5	e4.3	8.0	6.5	3150	517	153	99	75	38	52	44	e10
6	e4.2	9.7	6.0	3690	130	90	240	62	30	34	54	13
7	e4.1	27	242	3400	90	72	294	37	23	35	72	e10
8	e4.0	31	926	2460	258	63	126	101	18	30	77	e9.0
9	e3.9	30	319	1050	1720	54	98	1840	22	23	47	e10
10	3.8	17	85	366	1490	48	102	2260	15	9.1	28	48
11	3.7	7.4	49	161	972	47	98	1030	78	8.1	22	140
12	3.8	5.2	33	113	238	49	88	298	45	24	23	65
13	5.1	4.4	26	78	106	72	135	128	20	30	31	49
14	7.4	6.6	16	58	83	70	142	83	13	28	34	41
15	7.9	41	12	51	377	152	294	99	10	21	40	103
16	7.7	103	14	47	1390	155	165	63	11	16	29	39
17	7.3	40	12	49	1780	233	152	63	11	66	25	16
18	6.9	22	13	104	637	99	126	76	8.1	133	21	12
19	5.8	16	13	441	1200	60	68	46	9.3	100	18	8.6
20	5.4	12	13	457	634	47	43	31	7.9	89	16	40
21	5.4	11	15	1580	442	39	57	32	7.3	160	17	106
22	11	31	12	980	2830	43	66	30	7.1	93	28	29
23	26	284	9.3	219	2930	49	81	25	7.1	48	24	73
24	26	83	8.5	1740	1200	54	85	20	6.9	308	25	27
25	20	27	9.1	4720	238	64	62	23	6.5	285	36	9.4
26	24	16	9.6	5080	102	50	79	17	6.4	178	37	6.6
27	14	26	10	4580	72	46	106	16	6.8	97	23	e5.5
28	8.0	13	10	2600	61	60	158	57	31	76	16	e5.0
29	7.3	15	390	2110	---	117	101	98	22	57	13	e4.5
30	7.6	18	1350	1940	---	821	67	71	25	44	e11	e3.5
31	9.4	---	1450	709	---	495	---	97	---	50	e10	---
TOTAL	262.3	981.0	5099.1	44770	21621	9717	4149	7003	2012.4	2296.2	1016	913.1
MEAN	8.46	32.7	164	1444	772	313	138	226	67.1	74.1	32.8	30.4
MAX	26	284	1450	5080	2930	2670	464	2260	940	308	77	140
MIN	3.7	4.4	6.0	47	61	39	43	16	6.4	8.1	10	3.5
AC-FT	520	1950	10110	88800	42890	19270	8230	13890	3990	4550	2020	1810
CFSM	.06	.25	1.26	11.0	5.89	2.39	1.06	1.72	.51	.57	.25	.23
IN.	.07	.28	1.45	12.71	6.14	2.76	1.18	1.99	.57	.65	.29	.26

CAL YR 1989	TOTAL 102262.5	MEAN 280	MAX 4270	MIN 2.0	AC-FT 202800	CFSM 2.14	IN. 29.04
WTR YR 1990	TOTAL 99840.1	MEAN 274	MAX 5080	MIN 3.5	AC-FT 198000	CFSM 2.09	IN. 28.35

e Estimated.

08010000 BAYOU DES CANNES NEAR EUNICE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.10	1.82	13.11	5.87	6.87	5.06	3.22	12.62	2.82	3.07	---
2	---	2.35	1.72	6.99	4.64	16.64	6.06	3.05	8.51	2.64	2.66	---
3	---	1.96	1.62	4.51	7.51	16.42	8.83	3.00	4.28	2.52	2.89	---
4	---	1.66	1.53	12.04	14.33	11.26	5.24	2.95	3.48	5.02	2.81	---
5	---	1.57	1.48	17.17	9.18	5.08	4.08	3.52	3.10	3.43	2.75	---
6	---	1.65	1.45	17.67	4.70	3.87	6.20	3.18	2.87	2.99	3.00	1.80
7	---	2.28	5.16	17.41	3.88	3.45	7.07	2.56	2.65	3.00	3.46	---
8	---	2.40	12.59	16.36	5.90	3.22	4.61	3.50	2.50	2.86	3.57	---
9	---	2.36	7.18	12.86	15.11	2.98	4.05	15.20	2.62	2.65	2.83	---
10	1.27	1.94	3.75	7.85	14.54	2.85	4.13	16.15	2.40	2.13	2.32	2.74
11	1.26	1.53	2.87	5.26	12.45	2.81	4.05	12.71	3.94	2.04	2.10	4.82
12	1.27	1.39	2.43	4.37	6.28	2.87	3.83	7.13	3.26	2.69	2.15	3.30
13	1.38	1.33	2.25	3.60	4.22	3.46	4.80	4.82	2.56	2.86	2.40	2.94
14	1.54	1.47	1.91	3.07	3.72	3.41	4.84	3.95	2.31	2.79	2.48	2.76
15	1.57	2.60	1.78	2.91	7.43	5.03	7.12	4.28	2.19	2.58	2.65	4.13
16	1.56	4.14	1.83	2.82	14.08	5.14	5.32	3.46	2.22	2.41	2.34	2.72
17	1.54	2.63	1.77	2.87	15.25	6.34	5.11	3.46	2.21	3.74	2.23	2.17
18	1.51	2.12	1.80	4.00	10.39	4.05	4.61	3.77	2.08	5.08	2.07	2.04
19	1.43	1.91	1.81	8.73	13.66	3.14	3.34	3.04	2.14	4.48	1.99	1.92
20	1.40	1.77	1.83	8.66	10.32	2.81	2.72	2.65	2.07	4.27	1.94	2.72
21	1.41	1.74	1.87	14.78	7.78	2.62	3.06	2.67	2.03	5.49	1.96	4.19
22	1.69	2.29	1.77	12.38	16.82	2.72	3.31	2.62	2.02	4.33	2.30	2.48
23	2.26	6.97	1.64	6.03	16.95	2.86	3.67	2.47	2.02	3.34	2.20	3.48
24	2.25	3.66	1.60	13.50	13.25	3.00	3.75	2.32	2.01	7.32	2.22	2.45
25	2.06	2.25	1.63	18.49	6.23	3.24	3.20	2.40	1.98	7.05	2.53	1.95
26	2.18	1.90	1.66	18.77	4.13	2.88	3.62	2.22	1.97	5.52	2.55	1.83
27	1.83	2.23	1.68	18.39	3.45	2.79	4.23	2.18	2.00	4.02	2.17	---
28	1.57	1.81	1.69	16.41	3.17	3.15	5.21	3.24	2.89	3.56	1.91	---
29	1.53	1.88	7.11	15.88	---	4.30	4.11	4.26	2.63	3.07	1.79	---
30	1.55	1.98	14.16	15.52	---	11.91	3.33	3.67	2.72	2.76	---	---
31	1.65	---	14.44	10.87	---	9.05	---	3.89	---	2.89	---	---
MAX	---	6.97	14.44	18.77	16.95	16.64	8.83	16.15	12.62	7.32	---	---
MIN	---	1.33	1.45	2.82	3.17	2.62	2.72	2.18	1.97	2.04	---	---

08012000 BAYOU NEZPIQUE NEAR BASILE, LA

LOCATION.--Lat 30°28'50", long 92°37'55", in NE 1/4 NW 1/4 sec.1, T.7 S., R.3 W., Evangeline Parish, Hydrologic Unit 08080201, near left bank on U.S. Highway 190, 1,300 ft downstream from Missouri Pacific Railroad bridge, and 2.0 mi west of Basile.

DRAINAGE AREA.--527 mi².

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

REVISED RECORDS.--WSP 1512: 1945-55.

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft above National Geodetic Vertical Datum of 1929. Prior to July 1947, nonrecording gage at same site and datum. Water-stage recorder for Bayou Nezpique at Mamou pumping plant near Basile (station 08012020) used as auxiliary for this station since July 7, 1979 to Sept. 30, 1984. Mar. 27, 1945 to July 6, 1979, auxiliary nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair. Diversion for irrigation by Mamou pumping plant may affect stage-discharge relation. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--52 years, 829 ft³/s, 21.36 in/yr, 600,600 acre-ft/yr. The figure published in the 1989 report was in error; the correct figure is 51 years, 833 ft³/s, 21.47 in/yr, 603,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s, May 20, 1953, gage height, 34.39 ft; minimum discharge, 0.1 ft³/s, June 7-31, 1943, June 22-29, 1948; minimum gage height, 1.00 ft, June 28, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,360 ft³/s, Jan. 27, gage height, 23.49 ft; minimum discharge, 3.1 ft³/s, Oct. 12, 13, 14, gage height, 1.35 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	3.7	52	1200	5010	1750	881	117	124	100	98	8.5
2	5.7	4.0	31	818	4400	1990	704	96	209	134	105	8.6
3	5.4	4.5	26	452	3820	2540	677	75	175	106	119	7.2
4	5.6	5.8	21	1220	3300	2450	594	65	132	96	120	5.8
5	5.4	7.1	16	2900	2890	1990	367	66	111	96	110	9.6
6	5.4	7.3	13	4140	2330	1420	294	69	90	84	90	9.7
7	4.8	6.9	60	4630	1700	855	410	51	72	92	83	10
8	4.1	6.9	933	4840	1120	470	385	81	58	101	112	12
9	3.6	15	1280	4600	1440	270	249	1390	48	80	104	11
10	3.3	16	1060	4130	2100	186	203	2360	40	80	70	9.4
11	3.2	11	665	3590	2430	147	188	2640	37	84	50	8.2
12	3.1	7.1	337	3000	2290	135	173	2250	36	79	39	7.7
13	3.1	5.3	173	2360	1930	141	189	1540	32	90	31	12
14	3.1	5.5	100	1690	1450	162	206	828	29	110	30	17
15	3.5	27	64	962	907	290	436	378	26	119	29	18
16	7.7	139	46	495	1110	844	504	187	27	109	27	18
17	14	160	32	272	1740	1240	350	119	30	108	24	16
18	13	86	26	184	1820	1270	380	95	30	147	19	15
19	8.7	39	23	316	1860	994	360	94	27	168	15	13
20	6.7	22	20	723	2130	641	228	87	25	174	12	12
21	5.4	16	21	1560	2140	351	160	73	24	168	10	11
22	5.6	14	20	2120	2710	227	134	64	24	179	7.6	15
23	6.7	51	19	2150	3860	175	113	57	25	158	7.1	18
24	6.2	170	18	2290	3960	147	106	64	24	138	12	14
25	5.0	132	16	4210	3640	158	104	64	21	197	14	11
26	4.0	103	13	6490	3130	160	94	56	19	236	12	32
27	3.5	394	12	7280	2580	150	116	52	16	169	9.7	52
28	4.0	381	13	6880	2100	132	193	55	18	125	9.2	40
29	5.8	214	40	6650	---	124	200	117	23	108	8.6	31
30	5.0	107	381	6540	---	348	153	144	61	84	8.0	28
31	4.2	---	976	5790	---	841	---	114	---	74	7.3	---
TOTAL	170.7	2161.1	6507	94482	69897	22598	9151	13448	1613	3793	1392.5	480.7
MEAN	5.51	72.0	210	3048	2496	729	305	434	53.8	122	44.9	16.0
MAX	14	394	1280	7280	5010	2540	881	2640	209	236	120	52
MIN	3.1	3.7	12	184	907	124	94	51	16	74	7.1	5.8
AC-FT	339	4290	12910	187400	138600	44820	18150	26670	3200	7520	2760	953
CFSM	.01	.14	.40	5.78	4.74	1.38	.58	.82	.10	.23	.09	.03
IN.	.01	.15	.46	6.67	4.93	1.60	.65	.95	.11	.27	.10	.03
CAL YR 1989	TOTAL 392514.6		MEAN 1075	MAX 13500	MIN 3.1	AC-FT 778600	CFSM 2.04	IN. 27.71				
WTR YR 1990	TOTAL 225694.0		MEAN 618	MAX 7280	MIN 3.1	AC-FT 447700	CFSM 1.17	IN. 15.93				

08012000 BAYOU NEZPIQUE NEAR BASILE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.57	1.41	3.13	14.12	21.76	16.56	12.22	4.55	4.65	4.17	4.06	1.67
2	1.56	1.44	2.57	11.71	21.11	17.25	10.84	4.17	5.95	4.77	4.18	1.67
3	1.54	1.48	2.38	8.53	20.42	18.54	10.62	3.79	5.46	4.27	4.44	1.61
4	1.55	1.56	2.20	13.51	19.73	18.38	9.91	3.59	4.80	4.10	4.45	1.53
5	1.54	1.63	2.03	19.07	19.13	17.26	7.79	3.60	4.44	4.10	4.27	1.71
6	1.54	1.64	1.89	20.81	18.12	15.22	7.01	3.67	4.07	3.88	3.92	1.72
7	1.50	1.63	2.81	21.37	16.31	11.97	8.24	3.27	3.73	4.01	3.78	1.74
8	1.45	1.62	12.39	21.59	13.70	8.79	7.98	3.65	3.44	4.17	4.30	1.83
9	1.40	1.99	14.57	21.33	15.29	6.73	6.47	14.89	3.19	3.80	4.14	1.78
10	1.37	2.05	13.37	20.80	17.56	5.64	5.88	18.16	2.98	3.80	3.53	1.69
11	1.36	1.80	10.48	20.13	18.35	5.04	5.66	18.72	2.89	3.86	3.08	1.65
12	1.35	1.63	7.27	19.30	18.07	4.84	5.44	17.93	2.86	3.77	2.81	1.62
13	1.35	1.53	5.15	18.18	17.10	4.94	5.68	15.68	2.73	3.96	2.55	1.80
14	1.35	1.54	4.03	16.28	15.36	5.27	5.91	11.74	2.66	4.33	2.54	2.02
15	1.39	2.29	3.39	12.67	12.35	6.84	8.42	7.88	2.55	4.49	2.50	2.06
16	1.66	4.65	2.97	8.94	13.49	11.88	9.12	5.64	2.56	4.31	2.44	2.05
17	1.95	4.96	2.60	6.50	16.49	14.34	7.63	4.58	2.67	4.27	2.31	1.98
18	1.90	3.78	2.38	5.28	16.75	14.47	7.94	4.16	2.68	4.93	2.14	1.94
19	1.71	2.79	2.27	6.96	16.90	12.96	7.73	4.13	2.58	5.26	1.98	1.88
20	1.61	2.26	2.18	10.92	17.67	10.30	6.19	4.00	2.48	5.34	1.86	1.80
21	1.54	2.01	2.22	15.75	17.70	7.62	5.24	3.76	2.46	5.25	1.75	1.76
22	1.55	1.94	2.17	17.65	18.80	6.19	4.83	3.57	2.45	5.42	1.65	1.92
23	1.61	2.99	2.14	17.73	20.48	5.47	4.48	3.43	2.48	5.08	1.62	2.05
24	1.58	5.10	2.12	17.96	20.60	5.03	4.35	3.56	2.45	4.79	1.86	1.88
25	1.51	4.54	2.03	20.84	20.20	5.20	4.31	3.57	2.34	5.67	1.92	1.73
26	1.44	4.06	1.89	22.90	19.50	5.24	4.13	3.40	2.25	6.21	1.83	2.47
27	1.39	7.92	1.88	23.44	18.61	5.09	4.51	3.30	2.17	5.25	1.73	3.07
28	1.44	7.79	1.92	23.18	17.58	4.80	5.74	3.37	2.21	4.55	1.71	2.75
29	1.56	5.73	2.70	23.02	---	4.66	5.83	4.54	2.41	4.26	1.68	2.50
30	1.51	4.14	7.60	22.95	---	7.47	5.14	4.99	3.44	3.81	1.65	2.38
31	1.46	---	12.84	22.42	---	11.91	---	4.48	---	3.63	1.61	---
MAX	1.95	7.92	14.57	23.44	21.76	18.54	12.22	18.72	5.95	6.21	4.45	3.07
MIN	1.35	1.41	1.88	5.28	12.35	4.66	4.13	3.27	2.17	3.63	1.61	1.53

MERMENTAU RIVER BASIN

08012150 MERMENTAU RIVER AT MERMENTAU, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°11'23", long 92°35'25", on line between secs.14 and 31, T.10 S., R.2 W., on parish line of Jefferson Davis and Acadia Parishes. Hydrologic Unit 08080202, on downstream side of U.S. Highway 90 bridge, 300 ft upstream from Southern Pacific Transportation Company railroad bridge, 0.25 mi west of Mermentau, and 2.0 mi downstream from confluence with Bayous Nezpique and Des Cannes.

DRAINAGE AREA.--1,381 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to current year. Gage-height records only, August 1941 to September 1984 in files of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 0.54 ft below National Geodetic Vertical Datum of 1929. Prior to October 1988, 1.12 ft below National Geodetic Vertical Datum of 1929, (when datum is applied to gage heights as published). Prior to October 1984, datum of gage is at mean low Gulf.

REMARKS.--No estimated daily discharges. Records poor. No gage-height record: June 10-12. No velocity record: Oct. 11-13, Jan. 28, 29, Feb. 8, 9, Mar. 27, and June 10-12. Discharge is affected by tide and wind at medium and low stages. Reverse flow at times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 38,200 ft³/s, July 5, 1989; maximum negative discharge, 11,500 ft³/s, Dec. 31, 1984; maximum gage height, 10.97 ft, Nov. 2, 1985; minimum gage height, -0.03 ft, Aug. 15, 1985; no flow at times each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 14.5 ft, August 1940; minimum gage height, -0.94 ft, July 13, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 27,700 ft³/s, Feb. 8, but may have been higher during period of no gage-height or velocity record; maximum gage height, 6.45 ft, Jan. 29; maximum negative discharge recorded, -3,630 ft³/s, Mar. 14; but may have been higher during the periods of no gage-height or velocity record; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-544	980	-7.0	3000	3780	1840	3050	247	-184	-416	141	4190
2	-474	574	-280	3680	1970	1960	4520	-256	84	-489	29	4020
3	-403	610	-230	4420	2490	2360	4940	211	1160	-376	-178	4090
4	-347	601	-363	5780	3870	2310	3150	1950	1050	-164	52	4180
5	-412	558	-390	6570	7000	2130	2250	1960	-565	-479	237	4100
6	-395	576	-214	7710	9670	1540	3350	1400	-925	-396	447	3940
7	-288	1600	165	9050	10300	1120	2080	777	-962	-281	596	3890
8	-276	2410	5.9	10600	---	813	1090	1480	-726	-133	597	3510
9	-260	1890	62	8970	---	678	748	7400	-641	-65	549	3590
10	-234	1720	-27	9580	1850	342	1630	7880	---	-321	352	3820
11	---	2520	-283	5270	1420	77	3790	5650	---	-26	72	3820
12	---	2040	9.1	7690	1190	835	1950	4130	---	109	-187	3730
13	---	763	-108	4120	1040	588	974	5980	-841	953	-79	1820
14	-158	1590	-147	4630	995	-521	1670	5540	-852	51	-34	-104
15	-115	388	-6.9	4890	1660	2670	2260	4000	-696	-257	-27	-105
16	-128	442	35	6940	1850	1830	3720	2470	-821	-149	168	-551
17	1080	391	8.9	509	1320	2300	4500	2740	-708	-107	1440	-524
18	909	406	26	580	1050	1440	5290	786	-486	40	2600	-697
19	2120	368	169	186	1860	2990	3450	624	-592	-107	2290	-510
20	2200	370	-58	152	1840	1430	3060	2010	-786	-142	2900	-485
21	1410	391	61	650	1980	150	3520	2090	-668	-49	2730	-1000
22	384	423	13	1410	2600	-286	3130	3970	-745	-14	2880	-370
23	479	559	-138	422	2680	-147	2810	2560	-571	453	3010	72
24	692	615	-153	1700	2890	-280	2480	1730	-636	805	2610	-407
25	1370	646	-129	4480	2210	417	2010	1870	-568	303	2730	-471
26	1350	573	-156	9630	1900	785	1930	1900	-653	608	2790	-516
27	1210	7.5	-152	9850	1700	---	3540	2510	-456	489	3470	-598
28	766	146	-156	---	1380	-565	2240	1260	-478	409	3020	-638
29	573	489	516	---	---	-480	20	1540	-367	134	3010	-569
30	638	423	1290	13100	---	3360	1060	838	-506	280	3740	-723
31	839	---	2440	10300	---	2980	---	879	---	77	4210	---
TOTAL	---	25069.5	1803.0	---	---	---	80212	78126	---	740	46165	40504
MEAN	---	836	58.2	---	---	---	2674	2520	---	23.9	1489	1350

08012150 MERMENTAU RIVER AT MERMENTAU, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.42	1.23	1.52	2.69	5.18	2.80	2.19	2.06	1.98	1.22	1.48	1.21
2	1.41	1.25	1.51	2.68	4.52	3.18	2.16	2.10	2.09	1.19	1.52	1.24
3	1.38	1.30	1.31	2.52	4.07	3.28	2.02	2.20	2.02	1.11	1.51	1.23
4	1.31	1.45	1.46	2.39	3.84	3.31	2.04	2.11	1.90	1.19	1.49	1.20
5	1.36	1.50	1.46	2.48	3.43	3.17	2.07	1.76	1.84	1.27	1.41	1.23
6	1.37	1.50	1.51	2.84	3.18	2.93	1.98	1.66	1.84	1.27	1.34	1.26
7	1.24	1.55	1.84	3.36	2.99	2.85	1.70	1.74	1.81	1.27	1.29	1.27
8	1.09	1.56	1.93	3.82	2.98	2.81	1.81	1.93	1.76	1.20	1.30	1.26
9	1.16	1.40	1.95	4.00	3.33	2.62	1.91	2.99	1.69	1.29	1.32	1.24
10	1.21	1.48	2.02	3.76	3.53	2.56	1.96	3.05	---	1.29	1.32	1.26
11	1.23	1.48	1.89	3.37	3.44	2.61	1.72	2.85	---	1.28	1.31	1.36
12	1.22	1.49	1.53	2.96	3.23	2.59	1.74	3.07	---	1.28	1.33	1.52
13	1.24	1.48	1.64	2.61	3.08	2.75	1.84	2.98	1.66	1.20	1.31	1.64
14	1.20	1.57	1.71	2.48	2.98	2.84	1.84	2.84	1.62	1.18	1.29	1.73
15	1.28	1.70	1.61	2.35	3.09	2.70	1.76	2.78	1.56	1.18	1.28	1.75
16	1.44	1.39	1.19	2.19	3.08	2.41	1.80	2.79	1.57	1.29	1.26	1.76
17	1.22	1.49	1.33	2.14	2.81	2.39	1.77	2.52	1.55	1.39	1.24	1.77
18	.90	1.51	1.37	2.00	2.62	2.33	1.55	2.38	1.46	1.36	1.25	1.78
19	.89	1.54	1.29	2.06	2.92	2.17	1.68	2.45	1.39	1.37	1.24	1.79
20	1.14	1.54	1.29	2.04	2.93	2.02	1.82	2.46	1.39	1.42	1.22	1.77
21	1.27	1.55	1.18	2.10	2.98	1.99	1.77	2.38	1.38	1.47	1.18	1.80
22	1.29	1.62	.64	2.12	3.80	2.00	1.69	2.09	1.37	1.50	1.21	1.71
23	1.32	1.52	.80	2.04	3.85	1.89	1.69	1.96	1.30	1.48	1.25	1.44
24	1.27	1.71	1.20	2.78	3.68	1.87	1.79	1.99	1.31	1.54	1.26	1.46
25	1.23	1.80	1.31	4.38	3.36	1.76	1.86	1.99	1.33	1.53	1.24	1.49
26	1.24	1.81	1.31	5.15	3.17	1.61	1.96	1.97	1.29	1.50	1.16	1.50
27	1.23	1.91	1.28	5.59	2.99	1.57	2.03	1.95	1.23	1.50	1.19	1.48
28	1.23	1.72	1.27	5.84	2.81	1.76	2.00	1.85	1.28	1.50	1.21	1.41
29	1.26	1.36	1.82	6.36	---	1.89	2.15	1.88	1.29	1.52	1.23	1.41
30	1.24	1.49	2.31	6.27	---	2.24	2.07	1.99	1.28	1.49	1.18	1.39
31	1.18	---	2.60	5.81	---	2.19	---	2.00	---	1.48	1.18	---
MAX	1.44	1.91	2.60	6.36	5.18	3.31	2.19	3.07	---	1.54	1.52	1.80
MIN	.89	1.23	.64	2.00	2.62	1.57	1.55	1.66	---	1.11	1.16	1.20

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1980 to September 1982.

WATER TEMPERATURES: April 1980 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 642 micromhos Oct. 2, 1981; minimum daily, 51 micromhos Feb. 20, 1982.
 WATER TEMPERATURES: Maximum daily, 31.0 °C July 12, 14, 15, 17-20, 1980; minimum daily, 6.0 °C Jan. 17, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 13...	0815	-200	195	7.25	24.0	--	4.1	1.4	2.2	K6	62
JAN 17...	1315	509	63	6.60	14.5	120	61	6.8	2.8	K50	720
APR 05...	0930	2250	171	7.07	19.0	160	230	3.5	5.0	190	250
JUL 02...	0930	489	259	7.06	29.5	50	2.5	1.1	2.7	K20	K60

DATE	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 13...	47	12	4.0	18	5.0	55	5.0	19	0.1	10	120
JAN 17...	14	3.5	1.3	4.9	2.8	14	5.0	5.7	0.1	6.8	46
APR 05...	36	9.0	3.2	15	2.6	36	5.3	18	0.1	8.8	97
JUL 02...	56	13	5.6	26	3.6	73	4.0	21	<0.1	11	155

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	PHOS-PHOROUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 13...	108	0.02	0.45	0.05	0.04	0.7	0.22	0.17	0.14	30	2
JAN 17...	39	<0.01	<0.10	0.09	0.06	1.1	0.10	--	0.07	180	<1
APR 05...	85	0.02	0.40	0.29	0.12	1.9	0.32	0.06	0.06	260	1
JUL 02...	133	0.02	0.10	0.17	0.13	0.9	0.28	0.11	0.11	40	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

08012150 MERMENTAU RIVER AT MERMENTAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 13...	87	<0.5	<1	<1	<3	8	110	<1	<4	78	<0.1
JAN 17...	43	<0.5	<1	<1	<3	4	290	1	<4	56	<0.1
APR 05...	75	<0.5	<1	<1	<3	4	150	1	<4	120	<0.1
JUL 02...	120	<0.5	<1	<1	<3	3	77	1	<4	480	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 13...	<10	4	<1	<1	83	<6	5	26	14	96
JAN 17...	<10	2	<1	<1	24	<6	7	43	59	96
APR 05...	<10	1	<1	2	59	<6	10	222	1350	99
JUL 02...	<10	3	<1	<1	100	<6	35	47	62	97

< Actual value is known to be less than the value shown.

08012300 BAYOU QUEUE DE TORTUE AT RICEVILLE, LA

LOCATION.--Lat 30°04'55", long 92°30'20", T.11 S., R.1 W., Louisiana Meridian, Acadia-Vermilion Parish line, Hydrologic Unit 08080202, at bridge on State Highway 91, 0.5 mi northeast of Riceville, and 3.3 mi north of Gueydan.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to current year. Unpublished records, December 1982 to September 1985, available in files of the Louisiana District Office, Baton Rouge, La.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 3.30 ft below National Geodetic Vertical Datum of 1929. Oct. 4, 1942 to Dec. 31, 1951, nonrecording gage at same site. Prior to Oct. 1, 1987, at datum 6.60 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharge. Discharge affected by wind and variable backwater from Mermentau River causing reverse flow at times during the year. Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 6,980 ft³/s, Oct. 31, 1985; maximum gage height, 12.01 ft, Nov. 2, 1985; maximum negative discharge, -919 ft³/s, Feb. 14, 1986; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum positive discharge, 5,200 ft³/s, Feb. 10, gage height 11.17 ft; maximum negative discharge, -622 ft³/s, Mar. 14; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	20	60	2510	1270	528	571	146	46	-62	52	-53
2	14	36	64	1870	965	3370	362	34	45	-73	29	-62
3	9.4	4.2	53	1240	712	3900	243	31	83	-63	-3.4	-56
4	24	-7.7	22	813	836	2990	148	100	65	-68	-3.1	-43
5	-9.9	-6.9	41	1090	770	2060	84	93	-8.0	28	-20	-66
6	17	19	269	2440	755	1500	110	70	---	77	-12	-51
7	36	50	1360	2850	1070	929	201	-8.5	---	-1.7	-3.4	-56
8	12	79	2730	3100	1020	465	110	78	---	-8.3	-22	-48
9	-5.1	84	3100	2440	3340	490	41	541	---	156	-33	-37
10	23	45	2380	1740	4530	225	56	946	---	205	-55	-49
11	-3.4	26	1670	1160	4380	8.0	190	710	---	135	-38	-44
12	-3.7	23	1270	856	3390	227	176	340	---	224	-56	-10
13	7.3	56	903	621	2330	714	90	314	-71	329	-42	81
14	24	79	582	403	1740	512	93	402	-27	314	-44	91
15	-21	304	331	250	924	592	183	279	-25	183	-43	79
16	8.4	434	234	158	734	887	106	112	-35	82	-54	83
17	49	341	114	84	807	1320	87	161	-24	128	-63	11
18	36	184	54	108	787	970	78	87	-42	148	-59	-21
19	8.8	97	99	88	2080	707	35	30	-81	144	-49	-18
20	-12	70	86	89	2810	584	38	77	-115	116	-51	7.9
21	-20	41	76	296	2190	270	88	102	-118	90	-42	-23
22	7.0	76	63	354	3230	122	58	105	-106	205	-24	9.0
23	15	408	12	251	3050	321	46	45	-79	322	-34	27
24	4.0	414	32	255	2130	283	6.5	7.2	-70	643	-33	-40
25	14	265	44	1670	1530	291	-18	-2.5	-87	633	-31	-46
26	12	170	59	2560	1100	323	-25	-14	-105	422	-25	-53
27	19	81	53	2440	810	157	298	-18	-96	214	-46	-48
28	14	127	46	1760	527	-40	465	82	-105	106	-36	-45
29	16	139	464	1870	---	89	307	89	-104	111	-40	-42
30	24	67	2400	2470	---	700	213	24	-69	92	-34	-28
31	20	---	2850	1880	---	883	---	13	---	71	-42	---
TOTAL	344.3	3724.6	21521	39716	49817	26377.0	4440.5	4975.2	---	4902.0	-956.9	-527.33
MEAN	11.1	124	694	1281	1779	851	148	160	---	158	-30.9	-17.6

08012300 BAYOU QUEUE DE TORTUE AT RICEVILLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.17	4.01	4.29	7.54	7.74	10.19	5.54	4.90	4.76	3.98	4.40	3.97
2	4.17	4.03	4.29	7.09	7.25	10.81	5.27	4.84	4.83	3.94	4.36	3.99
3	4.14	4.05	4.13	6.56	6.85	10.92	5.06	4.94	4.80	3.88	4.32	3.98
4	4.08	4.18	4.21	6.12	6.76	10.73	4.87	4.93	4.70	3.93	4.28	3.96
5	4.10	4.25	4.22	6.17	6.53	10.54	4.84	4.72	4.57	4.11	4.21	3.98
6	4.12	4.25	4.61	7.22	7.57	10.41	4.88	4.45	---	4.18	4.17	4.01
7	4.04	4.31	5.93	7.83	10.32	10.29	4.74	4.44	---	4.08	4.11	4.03
8	3.86	4.39	7.06	8.09	10.31	10.18	4.62	4.68	---	4.01	4.08	4.02
9	3.91	4.26	7.49	7.78	10.80	10.18	4.67	6.11	---	4.41	4.10	4.00
10	3.97	4.24	7.13	7.24	11.04	10.12	4.74	6.42	---	4.63	4.09	4.02
11	3.99	4.24	6.59	6.72	11.01	10.07	4.75	6.10	---	4.43	4.08	4.11
12	3.97	4.25	6.16	6.27	10.82	10.12	4.66	5.89	---	4.61	4.08	4.30
13	3.98	4.27	5.81	5.86	10.60	10.23	4.64	5.81	4.40	4.89	4.08	4.55
14	3.99	4.36	5.44	5.52	10.47	10.19	4.69	5.77	4.39	4.87	4.05	4.72
15	4.00	4.83	5.07	5.27	10.28	10.21	4.71	5.64	4.32	4.56	4.04	4.72
16	4.20	5.13	4.62	5.07	10.24	10.28	4.64	5.54	4.33	4.30	4.01	4.71
17	4.04	4.88	4.26	4.96	10.26	10.37	4.60	5.39	4.31	4.48	3.99	4.61
18	3.73	4.55	4.20	4.90	10.25	10.29	4.44	5.17	4.24	4.59	4.00	4.55
19	3.64	4.36	4.22	4.85	10.54	10.23	4.42	5.19	4.12	4.55	4.00	4.58
20	3.85	4.32	4.16	4.95	10.70	10.20	4.58	5.22	4.11	4.53	3.97	4.59
21	4.00	4.32	4.09	5.22	10.57	10.13	4.56	5.15	4.10	4.49	3.94	4.59
22	4.04	4.46	3.61	5.31	10.78	10.09	4.49	4.97	4.11	4.73	4.00	4.57
23	4.08	5.10	3.57	5.13	10.75	10.14	4.45	4.72	4.04	4.98	4.02	4.40
24	4.03	5.28	3.96	5.51	10.55	10.13	4.51	4.72	4.06	5.44	4.03	4.23
25	3.99	5.04	4.07	7.31	10.42	10.14	4.58	4.72	4.07	5.56	4.01	4.25
26	3.99	4.79	4.09	8.18	10.33	10.14	4.68	4.71	4.01	5.32	3.94	4.25
27	4.00	4.68	4.05	8.21	10.26	10.10	5.06	4.69	3.96	4.96	3.95	4.23
28	3.99	4.66	4.04	7.95	10.19	6.90	5.30	4.65	3.99	4.63	3.97	4.17
29	4.01	4.42	5.04	8.34	---	4.67	5.14	4.70	4.01	4.65	3.98	4.17
30	4.03	4.27	7.05	8.67	---	5.54	5.00	4.71	4.04	4.57	3.95	4.15
31	3.96	---	7.64	8.28	---	5.83	---	4.78	---	4.46	3.94	---
MAX	4.20	5.28	7.64	8.67	11.04	10.92	5.54	6.42	---	5.56	4.40	4.72
MIN	3.64	4.01	3.57	4.85	6.53	4.67	4.42	4.44	---	3.88	3.94	3.96

08012400 MERMENTAU RIVER AT LAKE ARTHUR, LA

LOCATION.--Lat 30°04'18", long 92°38'55", T.11 S., R.3 W., sec.13, Vermilion Parish. Hydrologic Unit 08080202, on southwest side of Citco Wharf, 1.1 mi upstream from State Highway 14 bridge, 3.1 mi downstream from Bayou Queue de Tortue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1984 to current year (gage height only). Records collected at same site intermittently, 1952-55. Daily stages Mar. 30, 1956 to Sept. 30, 1984 are in reports of the U.S. Army Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 1.78 ft below National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1987, at datum 3.56 ft below National Geodetic Vertical Datum of 1929 (when datum is applied to gage heights as published).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.20 ft Nov. 3, 1985; minimum, 1.18 ft Aug. 15, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 7.50 ft mean low Gulf, May 20, 1980; minimum, -0.17 ft, mean low Gulf, June 17, 1963, from reports of the U.S. Army Corps of Engineers, New Orleans District.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.69 ft, Jan. 30; minimum, 1.65 ft, Dec. 22.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.60	2.43	2.71	3.52	5.33	3.85	3.37	3.26	3.20	2.44	2.71	2.44
2	2.60	2.44	2.70	3.53	5.03	4.00	3.32	3.32	3.29	2.41	2.73	2.48
3	2.57	2.50	2.51	3.50	4.80	4.08	3.20	3.39	3.21	2.34	2.74	2.46
4	2.51	2.64	2.65	3.44	4.54	4.11	3.22	3.30	3.09	2.42	2.71	2.43
5	2.55	2.68	2.64	3.44	4.31	4.06	3.26	2.96	3.03	2.49	2.63	2.47
6	2.56	2.68	2.70	3.60	4.19	3.97	3.13	2.87	3.05	2.50	2.58	2.49
7	2.45	2.73	2.94	3.89	4.03	3.96	2.90	2.94	3.03	2.50	2.53	2.51
8	2.29	2.73	2.91	4.18	4.05	3.93	3.01	3.11	2.97	2.43	2.54	2.49
9	2.36	2.61	2.97	4.35	4.32	3.79	3.10	3.91	2.90	2.51	2.56	2.48
10	2.40	2.67	3.10	4.26	4.38	3.75	3.15	3.94	2.86	2.52	2.55	2.51
11	2.42	2.68	3.01	4.09	4.32	3.80	2.91	3.93	2.84	2.51	2.54	2.60
12	2.41	2.68	2.69	3.80	4.22	3.76	2.95	4.18	2.83	2.50	2.55	2.75
13	2.42	2.68	2.81	3.61	4.15	3.92	3.05	4.04	2.87	2.43	2.54	2.87
14	2.41	2.75	2.89	3.55	4.09	4.04	3.03	3.95	2.83	2.40	2.52	2.96
15	2.48	2.83	2.78	3.44	4.17	3.82	2.95	3.93	2.78	2.41	2.51	2.98
16	2.63	2.56	2.41	3.33	4.03	3.59	2.99	3.96	2.78	2.52	2.49	2.99
17	2.42	2.69	2.53	3.31	3.79	3.56	2.96	3.70	2.77	2.61	2.48	3.00
18	2.12	2.70	2.58	3.18	3.69	3.51	2.76	3.59	2.68	2.59	2.48	3.01
19	2.08	2.74	2.49	3.23	3.81	3.34	2.89	3.65	2.61	2.59	2.47	3.02
20	2.32	2.73	2.49	3.16	3.87	3.21	3.01	3.65	2.61	2.64	2.45	3.00
21	2.45	2.74	2.38	3.14	4.01	3.18	2.97	3.57	2.60	2.69	2.42	3.03
22	2.48	2.78	1.86	3.17	4.51	3.19	2.89	3.29	2.60	2.72	2.44	2.95
23	2.51	2.71	2.01	3.15	4.46	3.10	2.90	3.17	2.52	2.70	2.48	2.70
24	2.46	2.91	2.39	3.62	4.37	3.07	2.99	3.21	2.54	2.76	2.49	2.70
25	2.43	2.98	2.50	4.35	4.21	2.97	3.07	3.20	2.56	2.76	2.46	2.73
26	2.43	2.98	2.50	4.77	4.12	2.83	3.16	3.18	2.51	2.72	2.39	2.73
27	2.43	3.05	2.47	5.05	4.00	2.79	3.24	3.16	2.46	2.72	2.42	2.71
28	2.42	2.87	2.46	5.24	3.88	2.96	3.19	3.07	2.50	2.72	2.45	2.65
29	2.45	2.55	2.85	5.61	---	3.10	3.33	3.10	2.52	2.73	2.46	2.65
30	2.44	2.69	3.22	5.67	---	3.38	3.27	3.20	2.51	2.71	2.41	2.63
31	2.37	---	3.44	5.52	---	3.36	---	3.20	---	2.70	2.41	---
MAX	2.63	3.05	3.44	5.67	5.33	4.11	3.37	4.18	3.29	2.76	2.74	3.03
MIN	2.08	2.43	1.86	3.14	3.69	2.79	2.76	2.87	2.46	2.34	2.39	2.43

08012470 BAYOU LACASSINE NEAR LAKE ARTHUR, LA

LOCATION.--Lat 30°04'12", long 92°52'43". in SE 1/4 SE 1/4 sec.21, T.11 S., R.5 W., Jefferson Davis Parish, Hydrologic Unit 08080202, at bridge on State Highway 14, 12.9 mi west of Lake Arthur, and 16.8 mi upstream from Intracoastal Waterway.

DRAINAGE AREA.--299 mi².

PERIOD OF RECORD.--Annual peaks, water years 1969-74, October 1974 to September 1985 (gage height only), October 1985 to current year.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 7.00 ft below National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Highways); prior to Oct. 1, 1974, nonrecording gage at same site at datum 0.85 ft lower.

REMARKS.--Records poor. No gage-height or velocity records: Oct. 12-18, Nov. 6-10, 12-13, 15-19, Dec. 21-26, 31, Jan. 13, 14, 18, Feb. 3, 6, 8, June 28 to July 5, and Aug. 30 to Sept. 13. Discharge affected by wind and tide at all stages. Reverse flow at times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.72 ft, May 19, 1980; minimum gage height, 7.25 ft, Mar. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum positive discharge, 6,990 ft³/s, Jan. 26; maximum gage height, 10.47 ft, Feb. 1; maximum negative discharge, -4,760 ft³/s, Nov. 27; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-446	-678	-666	2160	2180	907	467	198	6.2	---	137	---
2	-524	-585	-409	1670	1930	2260	558	-154	98	---	249	---
3	-529	-617	-374	751	e1900	2210	319	-3.6	369	---	206	---
4	-541	-932	-562	1180	1970	1420	155	513	102	---	191	---
5	-447	-959	-847	1700	991	646	270	560	70	160	144	---
6	-599	e-1690	-1510	2440	e900	-7.9	829	92	-80	170	408	---
7	-457	-1970	-2360	3020	859	59	531	-53	-48	107	69	---
8	-522	-1730	81	3050	e700	626	-13	253	-25	37	-60	---
9	-409	e-1590	-767	2660	2080	608	-55	3690	-91	38	8.0	---
10	-457	e-1300	-1940	2030	3140	281	454	5250	-6.2	52	-5.6	---
11	476	-1200	-2030	1450	2660	98	473	4990	-48	80	3.0	---
12	---	-1160	-1350	1230	1930	428	96	4130	-55	94	70	---
13	---	-1500	-1230	---	1160	597	-43	3470	-89	180	90	---
14	---	-1800	-27	---	517	88	586	2540	56	117	21	937
15	---	-1440	302	671	583	1480	649	1460	67	91	45	953
16	---	e-1360	-112	347	1850	1290	381	807	14	17	47	572
17	---	-1280	-113	387	2120	1230	440	1100	102	166	12	273
18	---	e-1360	-65	---	1890	826	287	353	37	261	54	205
19	-392	-1430	112	124	2820	575	52	331	-104	211	111	372
20	-586	-1930	-71	943	2660	293	199	350	-139	205	108	348
21	-465	-2140	---	1300	1750	89	479	528	-233	245	-51	531
22	-435	-2700	---	1040	3330	288	454	480	46	487	72	597
23	-759	-843	---	618	3660	292	169	.41	-118	571	71	410
24	-712	-1700	---	1760	2730	312	1.4	-99	-73	665	207	57
25	-553	-2340	---	4900	1720	219	-38	23	5.3	452	181	109
26	-571	-3040	38	5870	881	108	-34	103	-3.8	226	136	51
27	-585	-2690	54	5240	686	-161	870	115	-105	78	135	97
28	-600	362	99	3990	428	-20	1070	104	---	146	116	13
29	-650	362	774	4360	---	124	424	-100	---	234	230	91
30	-849	-501	1590	4320	---	790	268	-199	---	146	---	85
31	-530	---	---	3320	---	876	---	186	---	112	---	---
TOTAL	---	-41741	---	---	50025	18831.1	10298.4	31017.81	---	---	---	---
MEAN	---	-1391	---	---	1787	607	343	1001	---	---	---	---

e Estimated.

MERMENTAU RIVER BASIN

08012470 BAYOU LACASSINE NEAR LAKE ARTHUR, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.23	8.09	8.34	9.00	10.40	9.43	8.98	8.94	8.85	---	8.31	---
2	8.24	8.04	8.32	9.02	10.26	9.48	8.91	9.01	8.90	---	8.31	---
3	8.21	8.13	8.15	9.06	---	9.54	8.80	9.10	8.81	---	8.31	---
4	8.17	8.31	8.28	9.05	9.81	9.51	8.81	8.97	8.67	---	8.28	---
5	8.20	8.35	8.26	9.04	9.76	9.48	8.83	8.63	8.62	---	8.21	---
6	8.19	---	8.34	9.14	---	9.54	8.76	8.52	8.65	8.10	8.20	---
7	8.09	8.34	8.55	9.27	9.59	9.64	8.59	8.61	8.64	8.10	8.16	---
8	7.94	8.32	8.39	9.44	9.65	9.59	8.66	8.86	8.59	8.06	8.16	---
9	8.05	---	8.44	9.51	9.90	9.44	8.77	9.65	8.54	8.13	8.16	---
10	8.03	---	8.62	9.43	9.91	9.43	8.79	10.03	8.50	8.07	8.15	---
11	8.06	8.31	8.58	9.36	9.84	9.51	8.60	10.16	8.46	8.07	8.14	---
12	---	8.34	8.22	9.18	9.75	9.47	8.63	10.22	8.43	8.04	8.14	---
13	---	8.31	8.41	---	9.72	9.65	8.73	9.93	8.49	7.93	8.14	---
14	---	8.37	8.54	---	9.70	9.77	8.69	9.72	8.45	7.90	8.14	8.66
15	---	8.38	8.43	9.07	9.74	9.54	8.62	9.63	8.38	8.00	8.14	8.63
16	---	---	8.09	9.01	9.58	9.32	8.63	9.60	8.38	8.15	8.13	8.61
17	---	8.35	8.20	8.98	9.43	9.20	8.60	9.40	8.37	8.29	8.12	8.63
18	---	---	8.23	---	9.37	9.12	8.44	9.29	8.29	8.23	8.13	8.65
19	7.60	8.43	8.12	8.94	9.51	8.96	8.57	9.31	8.20	8.17	8.11	8.64
20	7.64	8.38	8.12	8.83	9.58	8.84	8.72	9.28	8.19	8.20	8.07	8.64
21	7.91	8.37	---	8.74	9.72	8.82	8.63	9.19	8.20	8.24	8.05	8.66
22	8.14	8.42	---	8.75	9.92	8.81	8.53	8.97	8.17	8.28	8.07	8.57
23	8.19	8.35	---	8.75	9.88	8.75	8.55	8.84	8.10	8.28	8.11	8.34
24	8.11	8.58	---	9.12	9.77	8.70	8.68	8.84	8.17	8.35	8.11	8.33
25	8.09	8.65	---	9.68	9.69	8.61	8.79	8.83	8.19	8.34	8.07	8.34
26	8.09	8.62	8.12	10.06	9.66	8.45	8.93	8.81	8.13	8.30	7.95	8.34
27	8.08	8.69	8.10	10.17	9.57	8.41	9.03	8.78	8.06	8.30	7.97	8.32
28	8.07	8.61	8.12	10.17	9.48	8.60	8.92	8.72	---	8.30	8.11	8.27
29	8.11	8.35	8.44	10.27	---	8.78	8.94	8.76	---	8.30	8.08	8.25
30	8.10	8.33	8.77	10.39	---	8.99	8.93	8.88	---	8.27	---	8.22
31	7.99	---	---	10.37	---	9.00	---	8.88	---	8.28	---	---
MAX	---	---	---	---	---	9.77	9.03	10.22	---	---	---	---
MIN	---	---	---	---	---	8.41	8.44	8.52	---	---	---	---

CALCASIEU RIVER BASIN

305

08013000 CALCASIEU RIVER NEAR GLENMORA, LA

LOCATION.--Lat 30°59'45", long 92°40'25", in SE 1/4 SE 1/4 sec.4, T.1 S., R.3 W., Louisiana Meridian, Rapides Parish, Hydrologic Unit 08080203, on right bank on downstream side of bridge on State Highway 113, 1.0 mi upstream from Prairie Branch, and 4.6 mi northwest of Glenmora.

DRAINAGE AREA.--499 mi².

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

REVISED RECORDS.--WSP 1118: 1944-47.

GAGE.--Water-stage recorder. Datum of gage is 110.77 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 19, 1949, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Several measurements of water temperature were made during the year. Gage-height telemetry at station.

AVERAGE DISCHARGE.--47 years, 764 ft³/s, 20.78 in/yr, 553,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,900 ft³/s, May 19, 1953, gage height, 21.55 ft; minimum discharge, 15 ft³/s, Sept. 27, 28, Oct. 7-9, 1954, Oct. 18, 1956; minimum gage height, 3.86 ft, Oct. 18, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 21	0900	*19,600	*17.12	Jan. 27	1600	11,900	15.91

Minimum discharge, 30 ft³/s, Sept. 25, 26, 30; minimum gage height, 4.85 ft, Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	35	52	62	4410	2420	1460	308	406	60	57	37
2	44	35	55	67	4610	1810	1640	285	480	60	57	37
3	43	37	54	81	4270	1310	1910	237	665	66	55	44
4	43	43	51	129	3750	1080	2380	194	982	77	55	44
5	42	41	49	210	3310	1060	2580	156	1220	71	55	42
6	41	41	45	463	2820	1070	2220	141	1300	68	57	44
7	40	41	58	732	2460	1030	1470	184	1150	80	79	42
8	39	41	79	1070	2200	889	815	273	973	159	90	38
9	39	39	139	1210	2200	680	513	449	741	266	126	36
10	38	39	241	1340	2110	513	464	539	437	239	108	35
11	37	40	217	1460	1780	401	525	551	202	167	77	36
12	37	38	136	1540	1670	349	782	590	151	127	64	36
13	37	36	101	1590	1760	337	1030	586	125	99	63	37
14	36	36	84	1570	2260	308	1120	515	105	83	60	37
15	36	36	76	1310	2820	1080	1100	387	95	92	57	37
16	36	35	67	806	2780	1920	1100	261	89	123	56	37
17	36	34	60	426	2390	2010	1190	186	84	92	56	37
18	35	33	58	407	1840	2150	1220	154	82	77	56	36
19	39	34	57	1170	1560	2370	1070	138	77	72	55	35
20	52	35	57	4620	1360	2420	810	131	74	67	55	35
21	53	35	57	18600	1230	2350	590	122	70	62	55	35
22	46	40	64	15800	1550	2170	418	111	67	60	59	34
23	42	44	67	12800	1640	1620	273	101	65	60	81	34
24	39	43	64	8570	1600	966	206	94	64	83	89	33
25	38	45	58	10500	1650	492	177	88	63	91	86	31
26	37	65	57	10400	1710	322	158	82	62	81	62	31
27	36	66	54	11300	2000	254	166	82	61	79	56	35
28	35	59	53	8870	2540	221	182	132	61	82	54	35
29	34	60	56	6280	---	380	221	256	60	77	46	33
30	35	56	58	5160	---	727	279	344	60	66	40	30
31	35	---	59	4590	---	1100	---	385	---	60	39	---
TOTAL	1224	1262	2383	133133	66280	35809	28069	8062	10071	2946	2005	1093
MEAN	39.5	42.1	76.9	4295	2367	1155	936	260	336	95.0	64.7	36.4
MAX	53	66	241	18600	4610	2420	2580	590	1300	266	126	44
MIN	34	33	45	62	1230	221	158	82	60	60	39	30
AC-FT	2430	2500	4730	264100	131500	71030	55670	15990	19980	5840	3980	2170
CFSM	.08	.08	.15	8.61	4.74	2.31	1.88	.52	.67	.19	.13	.07
IN.	.09	.09	.18	9.92	4.94	2.67	2.09	.60	.75	.22	.15	.08

CAL YR 1989	TOTAL 591190	MEAN 1620	MAX 44100	MIN 33	AC-FT 1173000	CFSM 3.25	IN. 44.07
WTR YR 1990	TOTAL 292337	MEAN 801	MAX 18600	MIN 30	AC-FT 579900	CFSM 1.61	IN. 21.79

CALCASIEU RIVER BASIN

08013000 CALCASIEU RIVER NEAR GLENMORA, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.20	5.11	5.61	5.79	14.02	13.03	12.11	8.57	9.25	5.34	5.28	4.94
2	5.20	5.11	5.65	5.89	14.09	12.56	12.40	8.39	9.70	5.34	5.27	4.93
3	5.20	5.17	5.64	6.13	13.96	11.86	12.67	7.99	10.52	5.47	5.24	5.09
4	5.20	5.30	5.60	6.79	13.74	11.47	13.00	7.55	11.28	5.70	5.24	5.11
5	5.18	5.26	5.54	7.68	13.53	11.44	13.14	7.11	11.71	5.58	5.23	5.06
6	5.16	5.27	5.47	9.58	13.27	11.45	12.89	6.93	11.84	5.52	5.27	5.11
7	5.14	5.28	5.71	10.70	13.06	11.37	12.12	7.44	11.60	5.76	5.74	5.06
8	5.13	5.27	6.08	11.45	12.88	11.09	10.89	8.29	11.26	7.02	5.95	4.98
9	5.11	5.23	6.90	11.70	12.88	10.58	9.88	9.50	10.74	8.24	6.60	4.93
10	5.10	5.25	8.02	11.91	12.82	9.88	9.60	10.02	9.41	7.99	6.29	4.91
11	5.09	5.25	7.79	12.10	12.56	9.22	9.93	10.08	7.58	7.17	5.71	4.93
12	5.08	5.22	6.89	12.24	12.45	8.88	10.85	10.27	6.97	6.60	5.46	4.95
13	5.08	5.18	6.43	12.32	12.55	8.79	11.37	10.25	6.59	6.13	5.42	4.96
14	5.07	5.18	6.18	12.30	12.92	8.58	11.54	9.89	6.24	5.82	5.36	4.97
15	5.06	5.18	6.04	11.86	13.27	11.23	11.51	9.13	6.06	5.98	5.31	4.97
16	5.07	5.16	5.88	10.87	13.25	12.67	11.50	8.19	5.94	6.54	5.29	4.98
17	5.07	5.14	5.77	9.36	13.01	12.75	11.66	7.46	5.85	5.99	5.29	4.99
18	5.06	5.11	5.72	9.20	12.61	12.85	11.71	7.09	5.80	5.69	5.29	4.98
19	5.14	5.14	5.70	11.60	12.28	13.00	11.44	6.89	5.70	5.60	5.28	4.96
20	5.45	5.17	5.69	13.54	11.94	13.03	10.92	6.79	5.64	5.50	5.28	4.96
21	5.46	5.19	5.70	16.97	11.74	12.99	10.26	6.66	5.56	5.39	5.28	4.96
22	5.33	5.30	5.84	16.57	12.25	12.87	9.32	6.49	5.50	5.34	5.39	4.93
23	5.24	5.40	5.88	16.06	12.41	12.34	8.29	6.33	5.46	5.33	5.83	4.92
24	5.19	5.38	5.82	15.24	12.34	11.22	7.68	6.21	5.43	5.81	5.99	4.93
25	5.15	5.44	5.72	15.64	12.42	9.74	7.37	6.11	5.40	5.97	5.95	4.88
26	5.13	5.83	5.70	15.64	12.51	8.68	7.14	6.01	5.38	5.78	5.45	4.86
27	5.11	5.84	5.65	15.80	12.74	8.14	7.24	5.99	5.37	5.74	5.33	4.97
28	5.09	5.72	5.63	15.29	13.11	7.83	7.42	6.75	5.36	5.80	5.29	4.99
29	5.08	5.74	5.68	14.64	---	8.98	7.83	8.14	5.35	5.70	5.13	4.93
30	5.09	5.67	5.72	14.29	---	10.72	8.35	8.84	5.35	5.48	5.00	4.88
31	5.11	---	5.74	14.08	---	11.50	---	9.12	---	5.33	4.97	---
MAX	5.46	5.84	8.02	16.97	14.09	13.03	13.14	10.27	11.84	8.24	6.60	5.11
MIN	5.06	5.11	5.47	5.79	11.74	7.83	7.14	5.99	5.35	5.33	4.97	4.86

08013500 CALCASIEU RIVER NEAR OBERLIN, LA

LOCATION.--Lat 30°38'25", long 92°48'50", in NW 1/4 NE 1/4 sec.7, T.5 S., R.4 W., Allen Parish, Hydrologic Unit 08080203, near right bank on downstream side of bridge on State Highway 26, 3.0 mi northwest of Oberlin, and 15 mi upstream from Whisky Chitto Creek.

DRAINAGE AREA.--753 mi².

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

REVISED RECORDS.--WSP 1512: 1923, 1939(M).

GAGE.--Water-stage recorder. Datum of gage is 39.43 ft above National Geodetic Vertical Datum of 1929. Prior to February 1925 at datum about 2.5 ft higher. September 1938 to Aug. 7, 1939, nonrecording gage at same site and present datum.

REMARKS.--No estimated daily discharges. Records fair. Prior to November 1981 paper mill at Elizabeth pumps about 11 ft³/s of water from wells which was discharged into Mill Creek 20 mi upstream from station. Some small diversions from April to September for rice irrigation upstream from station.

AVERAGE DISCHARGE.--54 years (water years 1923-24, 1939-90) 1,161 ft³/s, 20.94 in/yr, 841,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,800 ft³/s, May 19, 1953, gage height, 26.53 ft; minimum discharge, 30 ft³/s, Sept. 28, 29, Oct. 17-19, 1956; minimum gage height, 1.18 ft, Oct. 25, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1886 reached a stage of between 22 and 23 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 25	0730	*21,900	*19.75	No other peak greater than base discharge.			

Minimum discharge, 45 ft³/s, Sept. 18, 19, gage height, 1.83 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	50	79	82	6680	1460	1070	324	435	83	89	52
2	58	51	77	82	5270	1990	1030	344	487	80	92	49
3	57	51	76	90	4470	2330	1010	368	502	83	79	48
4	56	51	75	253	4360	2240	1080	375	516	83	76	52
5	55	51	74	664	4440	1830	1170	354	582	82	71	49
6	54	54	74	1130	4140	1340	1310	319	593	107	69	50
7	54	57	97	1450	3580	1080	1520	286	657	110	73	50
8	53	59	111	1640	3020	986	1660	306	731	99	73	47
9	52	57	127	1500	2900	944	1530	921	771	95	73	49
10	52	58	115	1220	3080	902	1160	1140	743	118	83	49
11	51	56	108	1000	2960	834	818	889	675	194	99	47
12	51	56	132	892	2640	739	644	690	566	242	117	47
13	51	55	162	877	2270	636	584	612	396	223	99	47
14	50	56	153	902	1830	559	629	593	286	183	84	48
15	50	56	125	941	1610	1110	772	587	238	149	76	48
16	50	55	108	977	2040	2270	895	558	202	123	72	47
17	49	57	100	971	2760	3140	878	497	177	111	67	47
18	48	58	96	928	3070	3140	844	417	157	132	64	46
19	49	57	93	1320	3060	2430	833	342	144	127	62	47
20	48	56	90	1820	2810	1850	853	288	133	108	60	48
21	48	55	88	2220	2380	1660	851	251	125	102	60	50
22	52	60	85	2490	3150	1680	789	238	120	95	59	78
23	58	64	84	7710	3200	1700	694	226	112	90	64	68
24	58	71	85	18000	3010	1660	588	214	104	88	65	73
25	56	72	86	21200	2410	1540	471	202	98	83	95	81
26	53	76	86	18100	1820	1260	385	190	95	86	125	65
27	51	74	84	15000	1480	905	342	184	92	99	105	54
28	51	79	82	11800	1390	648	339	201	90	98	90	48
29	50	86	83	11200	---	520	337	407	87	95	73	46
30	49	83	84	10600	---	592	325	565	84	95	62	46
31	50	---	83	8470	---	895	---	532	---	94	57	---
TOTAL	1623	1821	3002	145529	85830	44870	25411	13420	9998	3557	2433	1576
MEAN	52.4	60.7	96.8	4694	3065	1447	847	433	333	115	78.5	52.5
MAX	59	86	162	21200	6680	3140	1660	1140	771	242	125	81
MIN	48	50	74	82	1390	520	325	184	84	80	57	46
AC-FT	3220	3610	5950	288700	170200	89000	50400	26620	19830	7060	4830	3130
CFSM	.07	.08	.13	6.23	4.07	1.92	1.12	.57	.44	.15	.10	.07
IN.	.08	.09	.15	7.19	4.24	2.22	1.26	.66	.49	.18	.12	.08

CAL YR 1989	TOTAL 738425	MEAN 2023	MAX 51600	MIN 48	AC-FT 1465000	CFSM 2.69	IN. 36.48
WTR YR 1990	TOTAL 339070	MEAN 929	MAX 21200	MIN 46	AC-FT 672500	CFSM 1.23	IN. 16.75

CALCASIEU RIVER BASIN

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.36	2.16	2.41	2.44	16.02	8.21	6.91	3.74	4.32	2.28	2.35	1.92
2	2.35	2.17	2.40	2.44	14.94	9.61	6.78	3.85	4.57	2.25	2.38	1.88
3	2.33	2.17	2.37	2.53	14.09	10.43	6.68	3.98	4.64	2.29	2.24	1.87
4	2.32	2.17	2.35	3.65	13.96	10.23	6.94	4.02	4.70	2.28	2.20	1.92
5	2.31	2.17	2.35	5.70	14.06	9.22	7.26	3.91	5.00	2.27	2.15	1.88
6	2.30	2.19	2.34	7.32	13.63	7.82	7.75	3.72	5.05	2.52	2.12	1.89
7	2.30	2.23	2.60	8.27	12.76	6.95	8.37	3.53	5.32	2.54	2.17	1.89
8	2.28	2.25	2.75	8.74	11.79	6.61	8.75	3.63	5.63	2.45	2.17	1.86
9	2.27	2.23	2.87	8.40	11.57	6.46	8.41	6.35	5.79	2.41	2.18	1.88
10	2.26	2.23	2.78	7.60	11.90	6.30	7.22	7.15	5.68	2.60	2.29	1.89
11	2.25	2.21	2.72	6.94	11.68	6.04	5.97	6.24	5.40	3.10	2.45	1.86
12	2.24	2.19	2.91	6.57	11.06	5.66	5.27	5.46	4.93	3.38	2.60	1.85
13	2.23	2.19	3.13	6.53	10.28	5.23	5.01	5.13	4.15	3.27	2.45	1.86
14	2.22	2.20	3.06	6.61	9.20	4.90	5.20	5.05	3.61	3.04	2.30	1.87
15	2.23	2.19	2.86	6.74	8.63	6.96	5.80	5.02	3.35	2.82	2.21	1.87
16	2.22	2.18	2.72	6.86	9.74	10.24	6.27	4.89	3.15	2.64	2.16	1.86
17	2.21	2.20	2.65	6.83	11.29	12.02	6.21	4.61	3.00	2.55	2.10	1.86
18	2.19	2.21	2.61	6.69	11.88	12.01	6.08	4.23	2.88	2.70	2.06	1.84
19	2.19	2.19	2.56	7.91	11.86	10.62	6.04	3.84	2.79	2.67	2.04	1.86
20	2.18	2.17	2.53	9.20	11.39	9.27	6.12	3.54	2.71	2.53	2.02	1.86
21	2.18	2.16	2.51	10.17	10.53	8.77	6.11	3.33	2.66	2.48	2.02	1.89
22	2.22	2.21	2.48	10.74	12.02	8.81	5.87	3.25	2.62	2.41	2.01	2.23
23	2.29	2.26	2.47	15.86	12.12	8.86	5.48	3.18	2.56	2.36	2.06	2.11
24	2.29	2.33	2.47	19.08	11.77	8.77	5.03	3.10	2.49	2.34	2.08	2.17
25	2.26	2.35	2.49	19.63	10.58	8.44	4.49	3.03	2.45	2.28	2.39	2.27
26	2.22	2.39	2.48	19.11	9.18	7.55	4.07	2.95	2.41	2.32	2.66	2.08
27	2.20	2.36	2.46	18.58	8.27	6.31	3.84	2.91	2.37	2.45	2.51	1.95
28	2.18	2.42	2.44	17.98	8.00	5.28	3.82	3.02	2.36	2.45	2.36	1.87
29	2.17	2.51	2.45	17.84	---	4.72	3.81	4.16	2.33	2.41	2.17	1.84
30	2.17	2.46	2.46	17.69	---	5.04	3.75	4.93	2.30	2.41	2.05	1.84
31	2.16	---	2.44	16.96	---	6.27	---	4.78	---	2.40	1.97	---
MAX	2.36	2.51	3.13	19.63	16.02	12.02	8.75	7.15	5.79	3.38	2.66	2.27
MIN	2.16	2.16	2.34	2.44	8.00	4.72	3.75	2.91	2.30	2.25	1.97	1.84

08014500 WHISKY CHITTO CREEK NEAR OBERLIN, LA

LOCATION.--Lat 30°41'55", long 92°53'35", in NE 1/4 NE 1/4 sec.20, T.4 S., R.5 W., Allen Parish, Hydrologic Unit 08080204, near left bank on downstream side of bridge on State Highway 26, 1.0 mi downstream from Tenmile Creek, 8.0 mi upstream from Bundick Creek, and 10 mi northwest of Oberlin.

DRAINAGE AREA.--510 mi².

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

REVISED RECORDS.--WDR LA-84-1: 1983(M).

GAGE.--Water-stage recorder. Datum of gage is 46.24 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 19, 1944, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--51 years, 826 ft³/s, 21.99 in/yr, 598,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 144,000 ft³/s, May 18, 1953, gage height, 32.8 ft, from floodmark from rating curve extended above 37,000 ft³/s on basis of slope-area measurement of peak flow; minimum, 88 ft³/s, Oct. 19, 20, 1956; minimum gage height, 2.41 ft, Sept. 9, 10, 11, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1886 reached a stage of 25.7 ft, from floodmarks preserved by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 27	0200	*12,300	*19.85	Mar. 16	0710	3,020	11.64

Minimum discharge, 183 ft³/s, Sept. 30, gage height, 2.61 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	221	324	341	2800	697	2140	590	644	e270	221	191
2	236	256	277	327	2260	820	2060	e510	819	e250	219	196
3	236	266	258	323	1460	1090	1240	e480	1180	e230	215	195
4	233	241	249	712	1520	1150	858	e475	1140	e240	220	195
5	228	233	246	1400	1750	892	736	e470	1040	e420	220	191
6	224	231	242	1970	1590	696	674	e440	1000	496	218	190
7	222	232	287	2490	1170	605	645	e420	723	561	217	193
8	220	236	689	2780	963	559	722	e500	529	549	278	198
9	219	255	876	2560	1330	535	716	1580	e495	393	319	192
10	218	256	816	2180	2100	516	612	1820	e490	309	245	190
11	218	244	502	1280	2250	504	570	1470	e460	272	221	194
12	217	235	378	782	1930	491	564	919	e425	278	211	198
13	215	228	335	628	1340	473	639	652	e370	685	205	201
14	215	226	311	544	944	460	588	568	e320	1140	202	204
15	217	229	294	486	877	1860	815	547	e300	612	200	205
16	221	228	281	449	1110	2990	917	523	e295	421	198	204
17	226	258	274	427	1160	2830	880	e475	e290	322	196	207
18	265	275	274	461	1100	2830	655	e430	e270	284	195	210
19	296	257	271	1120	1100	2380	563	e390	e250	272	193	204
20	255	242	277	1940	1190	1480	e530	e350	e240	265	192	213
21	236	236	344	2550	1120	966	e510	e320	e230	257	192	202
22	229	245	334	3040	1870	817	e490	e310	e220	249	217	203
23	225	255	298	3600	2440	745	e420	e290	e215	269	248	200
24	224	280	282	4210	2320	696	e370	e280	e210	275	296	210
25	223	366	268	5780	2110	653	e330	e275	e205	263	293	201
26	222	328	256	8310	1420	616	e300	e270	e200	335	332	209
27	221	282	258	10900	887	587	e340	e260	e205	303	240	196
28	220	280	263	7990	747	565	e470	601	e210	272	212	190
29	219	296	275	6200	---	573	645	1170	e220	245	201	186
30	219	319	277	4610	---	1030	745	1290	e225	232	196	184
31	219	---	321	3260	---	1920	---	972	---	225	192	---
TOTAL	7069	7736	10637	83650	42858	33026	21744	19647	13420	11194	7004	5952
MEAN	228	258	343	2698	1531	1065	725	634	447	361	226	198
MAX	296	366	876	10900	2800	2990	2140	1820	1180	1140	332	213
MIN	215	221	242	323	747	460	300	260	200	225	192	184
AC-FT	14020	15340	21100	165900	85010	65510	43130	38970	26620	22200	13890	11810
CFSM	.45	.51	.67	5.29	3.00	2.09	1.42	1.24	.88	.71	.44	.39
IN.	.52	.56	.78	6.10	3.13	2.41	1.59	1.43	.98	.62	.51	.43

CAL YR 1989	TOTAL 526829	MEAN 1443	MAX 45500	MIN 215	AC-FT 1045000	CFSM 2.83	IN. 38.43
WTR YR 1990	TOTAL 263937	MEAN 723	MAX 10900	MIN 184	AC-FT 523500	CFSM 1.42	IN. 19.25

e Estimated.

CALCASIEU RIVER BASIN

08014500 WHISKY CHITTO CREEK NEAR OBERLIN, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.13	3.01	3.52	3.59	11.14	5.07	9.28	4.16	4.35	---	2.85	2.67
2	3.16	3.22	3.28	3.53	9.79	5.52	9.02	---	4.98	---	2.85	2.71
3	3.16	3.28	3.18	3.51	7.56	6.42	6.41	---	6.21	---	2.82	2.70
4	3.14	3.14	3.13	4.97	7.76	6.61	5.12	---	6.08	---	2.87	2.71
5	3.11	3.08	3.10	7.37	8.42	5.77	4.69	---	5.73	---	2.87	2.67
6	3.08	3.06	3.09	9.02	7.94	5.07	4.46	---	5.62	4.00	2.86	2.66
7	3.06	3.07	3.32	10.41	6.67	4.74	4.36	---	4.65	4.26	2.87	2.69
8	3.04	3.10	4.99	11.12	6.01	4.57	4.64	---	3.94	4.23	3.22	2.72
9	3.03	3.21	5.67	10.59	7.15	4.48	4.61	7.51	---	3.58	3.43	2.68
10	3.02	3.21	5.45	9.61	9.38	4.40	4.24	8.30	---	3.20	3.05	2.66
11	3.02	3.14	4.29	6.97	9.77	4.35	4.08	7.18	---	3.02	2.90	2.70
12	3.01	3.08	3.76	5.33	8.93	4.30	4.06	5.33	---	3.05	2.82	2.73
13	3.00	3.03	3.56	4.78	7.20	4.22	4.34	4.38	---	4.65	2.78	2.75
14	2.99	3.02	3.45	4.46	5.95	4.17	4.15	4.07	---	6.32	2.76	2.77
15	3.01	3.04	3.36	4.23	5.72	8.55	4.97	3.99	---	4.50	2.74	2.77
16	3.04	3.03	3.30	4.07	6.50	11.58	5.33	3.90	---	3.75	2.73	2.77
17	3.07	3.20	3.26	3.98	6.65	11.19	5.20	---	---	3.30	2.71	2.79
18	3.30	3.29	3.26	4.12	6.46	11.20	4.39	---	---	3.12	2.70	2.81
19	3.46	3.20	3.24	6.43	6.45	9.94	4.06	---	---	3.08	2.69	2.77
20	3.23	3.11	3.28	8.95	6.75	7.21	---	---	---	3.04	2.68	2.83
21	3.13	3.07	3.61	10.56	6.51	5.49	---	---	---	3.00	2.68	2.76
22	3.08	3.12	3.56	11.70	8.70	4.98	---	---	---	2.96	2.86	2.76
23	3.06	3.18	3.38	12.71	10.26	4.72	---	---	---	3.08	3.07	2.74
24	3.04	3.31	3.30	13.59	9.95	4.54	---	---	---	3.12	3.32	2.81
25	3.03	3.73	3.23	15.51	9.40	4.39	---	---	---	3.06	3.30	2.75
26	3.02	3.55	3.16	17.64	7.42	4.26	---	---	---	3.43	3.49	2.81
27	3.02	3.31	3.17	19.35	5.75	4.15	---	---	---	3.28	3.01	2.71
28	3.01	3.30	3.20	17.68	5.26	4.06	---	4.20	---	3.13	2.83	2.66
29	3.00	3.38	3.27	15.95	---	4.09	4.36	6.19	---	2.99	2.75	2.64
30	2.99	3.50	3.28	14.13	---	5.70	4.72	6.58	---	2.92	2.71	2.62
31	2.99	---	3.49	12.09	---	8.61	---	5.51	---	2.87	2.68	---
MAX	3.46	3.73	5.67	19.35	11.14	11.58	---	---	---	---	3.49	2.83
MIN	2.99	3.01	3.09	3.51	5.26	4.06	---	---	---	---	2.68	2.62

08015500 CALCASIEU RIVER NEAR KINDER, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°30'10", long 92°54'55", in NW 1/4 SE 1/4 sec.30, T.6 S., R.5 W., Allen Parish, Hydrologic Unit 08080203, near center of span on downstream side of bridge on U.S. Highway 190, 0.5 mi downstream from Whisky Chitto Creek, and 4.0 mi west of Kinder.

DRAINAGE AREA.--1,700 mi².

WATER-DISCHARGE RECORDS

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 National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 11.95 ft above National Geodetic Vertical Datum of 1929. August 1922 to January 1925, water-stage recorder 400 ft downstream at datum 1.77 ft higher. October 1938 to July 9, 1939, nonrecording gage at present site and datum.

REMARKS.--Records fair. Prior to November, 1981, paper mill at Elizabeth pumped about 11 ft³/s from wells which was later discharged into Mill Creek 36 mi above station. Water is diverted during period April to September at points just above station and 5.0 mi 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 ft³/s and this diversion results in marked regulation of the low-water flow. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--50 years (water years 1923-24, 1939-57, 1962-90), 2.625 ft³/s, 1,902,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 182,000 ft³/s, May 19, 1953, gage height, 32.00 ft; minimum discharge, 136 ft³/s, Aug. 15, 1956; minimum gage height, 1.42 ft, Sept. 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,000 ft³/s, Jan. 26, gage height, 20.06 ft; minimum discharge, 298 ft³/s, Aug. 17, 18, 19, 20; minimum gage height, 1.94 ft, Sept. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	422	304	549	539	15600	3080	3820	1430	1440	547	401	316
2	420	311	507	535	12300	3570	4180	1270	1330	498	390	327
3	420	350	451	603	9800	4210	4160	1190	1730	462	402	320
4	414	341	421	1670	7780	4390	3190	1170	1900	483	460	320
5	408	322	398	3790	7100	4170	2710	1140	1950	1210	470	321
6	400	320	387	5160	6880	3470	2540	1090	1990	1630	453	307
7	392	326	703	6510	6420	2760	2620	1060	1880	1360	495	307
8	384	337	1440	7020	5630	2370	2740	1180	1620	1060	493	316
9	376	347	1410	7130	5650	2210	2860	3570	1500	866	536	328
10	366	369	1370	6320	6420	2100	2640	5380	1420	682	513	334
11	361	362	1120	4810	6720	2000	2170	4710	1310	607	438	348
12	361	347	833	3080	6520	1910	1790	3170	1180	619	417	358
13	357	334	730	2230	5830	1790	1640	2260	1010	694	411	392
14	429	329	666	1870	4470	1660	1650	1700	840	1480	394	395
15	606	341	605	1750	3780	2870	1840	1480	741	1350	358	399
16	640	343	544	1700	3610	6630	2320	1370	664	932	337	394
17	549	350	508	1670	3850	7610	2470	1250	635	728	321	381
18	383	380	485	1680	4670	7530	2330	1120	596	617	313	381
19	405	383	472	2230	5290	7210	2040	990	560	565	316	378
20	398	368	464	3960	5530	5700	1890	895	527	537	306	413
21	361	353	479	5630	5200	3940	1820	827	492	564	355	516
22	345	367	528	6280	6280	3340	1740	772	476	626	333	460
23	339	413	514	7050	7100	3050	1620	727	463	520	380	458
24	341	433	480	12500	7180	2920	1480	709	453	569	417	424
25	330	466	447	29800	7010	2800	1330	662	440	549	454	422
26	328	706	429	34100	6310	2600	1200	641	422	531	523	409
27	321	795	419	32800	4450	2230	1220	623	427	563	521	394
28	316	599	417	33200	3380	1830	1230	700	415	527	440	364
29	311	714	436	28200	---	1780	1330	1270	438	497	392	346
30	307	578	471	23600	---	2500	1460	1770	451	463	361	340
31	306	---	476	20200	---	3240	---	1810	---	442	331	---
TOTAL	12096	12288	19159	297617	180760	107470	66030	47936	29300	22778	12731	11168
MEAN	390	410	618	9601	6456	3467	2201	1546	977	735	411	372
MAX	640	795	1440	34100	15600	7610	4180	5380	1990	1630	536	516
MIN	306	304	387	535	3380	1660	1200	623	415	442	306	307
AC-FT	23990	24370	38000	590300	358500	213200	131000	95080	58120	45180	25250	22150
CAL YR 1989	TOTAL 1705679		MEAN 4673		MAX 97600		MIN 304		AC-FT 3383000			
WTR YR 1990	TOTAL 819333		MEAN 2245		MAX 34100		MIN 304		AC-FT 1625000			

CALCASIEU RIVER BASIN

08015500 CALCASIEU RIVER NEAR KINDER, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.20	2.77	3.55	3.52	17.03	9.27	10.58	5.17	5.65	2.93	2.46	2.03
2	3.19	2.80	3.42	3.51	16.21	10.17	11.11	4.69	5.34	2.77	2.42	2.07
3	3.19	2.94	3.25	3.73	15.40	11.16	11.09	4.46	6.47	2.66	2.46	2.04
4	3.17	2.90	3.15	6.79	14.51	11.40	9.82	4.40	6.94	2.73	2.65	2.03
5	3.15	2.83	3.07	10.52	14.12	11.10	8.49	4.31	7.08	4.95	2.69	2.03
6	3.13	2.82	3.03	12.07	13.98	9.99	8.12	4.18	7.17	6.18	2.63	1.98
7	3.10	2.84	4.04	13.37	13.59	8.59	8.30	4.08	6.88	5.41	2.74	1.97
8	3.07	2.88	6.26	14.06	12.86	7.71	8.56	4.44	6.16	4.55	2.73	2.00
9	3.04	2.91	6.19	14.14	12.89	7.29	8.81	9.34	5.82	3.95	2.86	2.04
10	3.01	2.99	6.07	13.50	13.60	7.02	8.34	12.28	5.58	3.37	2.78	2.06
11	2.99	2.97	5.35	12.37	13.85	6.73	7.18	12.20	5.28	3.13	2.54	2.10
12	2.98	2.91	4.47	10.28	13.68	6.49	6.18	10.18	4.91	3.16	2.46	2.13
13	2.97	2.87	4.14	8.35	13.06	6.18	5.76	7.86	4.39	3.41	2.44	2.25
14	3.21	2.85	3.94	7.48	11.86	5.82	5.77	6.39	3.87	5.75	2.38	2.25
15	3.78	2.89	3.74	7.14	10.51	8.62	6.29	5.76	3.56	5.38	2.25	2.26
16	3.89	2.90	3.54	7.00	10.26	13.08	7.59	5.44	3.31	4.16	2.17	2.23
17	3.60	2.92	3.43	6.91	10.63	14.41	7.97	5.10	3.22	3.52	2.11	2.19
18	3.06	3.02	3.36	6.94	11.39	14.37	7.60	4.73	3.09	3.16	2.09	2.18
19	3.13	3.03	3.31	8.31	12.51	14.19	6.85	4.33	2.97	2.99	2.09	2.17
20	3.11	2.98	3.29	10.67	12.76	13.33	6.44	4.04	2.86	2.90	2.05	2.28
21	2.98	2.93	3.34	12.49	12.41	11.36	6.24	3.83	2.76	2.98	2.21	2.61
22	2.93	2.97	3.49	13.47	13.16	9.77	6.05	3.66	2.70	3.19	2.13	2.43
23	2.90	3.13	3.44	14.07	14.11	9.20	5.71	3.51	2.66	2.84	2.29	2.42
24	2.90	3.20	3.34	15.70	14.17	8.93	5.30	3.46	2.63	3.00	2.41	2.31
25	2.87	3.30	3.23	19.16	14.06	8.69	4.87	3.30	2.59	2.93	2.54	2.29
26	2.86	4.07	3.17	19.96	13.50	8.26	4.50	3.24	2.53	2.88	2.74	2.25
27	2.83	4.35	3.14	19.78	12.05	7.34	4.56	3.18	2.55	2.98	2.74	2.19
28	2.81	3.73	3.13	19.83	10.16	6.27	4.58	3.43	2.51	2.87	2.47	2.08
29	2.80	4.10	3.20	19.17	---	6.13	4.87	5.15	2.58	2.77	2.31	2.02
30	2.78	3.65	3.31	18.50	---	8.02	5.25	6.57	2.62	2.66	2.20	1.99
31	2.78	---	3.33	17.92	---	9.57	---	6.69	---	2.60	2.09	---
MAX	3.89	4.35	6.26	19.96	17.03	14.41	11.11	12.28	7.17	6.18	2.86	2.61
MIN	2.78	2.77	3.03	3.51	10.16	5.82	4.50	3.18	2.51	2.60	2.05	1.97

08015500 CALCASIEU RIVER NEAR KINDER, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1966-69, 1973-75, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1979 to September 1982.

WATER TEMPERATURES: June 1979 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 139 micromhos June 24, 1979; minimum daily, 13 micromhos Sept. 21, 1979.

WATER TEMPERATURES: Maximum daily, 34.0 °C Aug. 26, 1981; minimum daily, 6.0 °C Jan. 12, 1981.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 187 micromhos was observed July 16, 1969. A water temperature of 5.0°C was observed Jan. 17, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 12...	1230	361	66	7.17	21.5	20	4.5	8.7	0.6	K36	K52
JAN 17...	1030	1670	49	6.71	8.5	60	16	10.1	2.6	92	88
APR 04...	1300	3190	41	6.13	19.0	80	22	7.1	0.2	250	260
JUL 02...	1230	498	64	7.29	28.5	20	12	7.9	1.6	270	100

DATE	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 12...	12	3.1	1.1	7.7	1.4	20	2.0	6.4	0.1	27	53
JAN 17...	11	2.7	0.94	3.9	1.6	7	6.0	5.2	<0.1	13	49
APR 04...	9	2.3	0.79	3.4	1.2	6	--	4.1	<0.1	10	42
JUL 02...	13	3.2	1.1	7.0	1.6	18	1.8	7.2	0.2	23	56

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHOROUS TOTAL (MG/L AS P)	PHOS-PHOROUS DIS-SOLVED (MG/L AS P)	PHOS-PHOROUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 12...	60	<0.01	<0.10	0.04	0.04	1.7	0.05	0.03	<0.01	20	<1
JAN 17...	38	<0.01	<0.10	0.06	0.06	0.6	0.04	0.02	0.02	220	<1
APR 04...	30	<0.01	<0.10	0.04	0.03	0.6	0.06	0.02	0.02	240	<1
JUL 02...	56	<0.01	<0.10	0.02	0.02	<0.2	0.07	0.03	0.02	50	<1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

CALCASIEU RIVER BASIN

08015500 CALCASIEU RIVER NEAR KINDER, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 12...	29	<0.5	<1	<1	<3	5	170	<1	<4	40	<0.1
JAN 17...	35	<0.5	2	1	<3	3	170	2	<4	100	<0.1
APR 04...	31	<0.5	<1	1	<3	2	290	2	<4	56	<0.1
JUL 02...	34	<0.5	1	<1	<3	4	200	1	<4	42	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 12...	<10	2	<1	<1	29	<6	17	28	27	83
JAN 17...	<10	2	<1	1	19	<6	12	--	--	--
APR 04...	<10	1	<1	<1	16	<6	13	40	344	96
JUL 02...	<10	2	<1	<1	28	<6	75	17	23	99

< Actual value is known to be less than the value shown.

08017035 CALCASIEU RIVER AT SALTWATER BARRIER CONTROL STRUCTURE (WEST SIDE), AT LAKE CHARLES, LA

LOCATION.--Lat 30°15'13", long 93°13'06", T.9 S., R.8 W., Calcasieu Parish, Hydrologic Unit 08080206, on north-west fender wall of lock at saltwater barrier control structure, and 1.9 mi north of Lake Charles.

DRAINAGE AREA.--Approximately 3,130 mi².

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.54 ft below National Geodetic Vertical Datum of 1929 or 2.32 ft below mean low gulf level.

REMARKS.--Flow is regulated by saltwater barrier control structure and is tide and wind affected at all stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.30 ft, July 2, 1989; minimum, -1.23 ft, Dec. 22, 23, 1989.

EXTREMES FOR CURRENT PERIOD.--Maximum gage-height, 4.65 ft, Mar. 14; minimum -1.23 ft, Dec. 22, 23.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.42	2.12	1.72	1.36	3.31	2.48	2.94	2.89	3.09	2.30	2.40	2.35
2	2.44	1.84	1.60	1.58	3.28	2.05	2.78	3.15	3.47	2.34	2.29	2.51
3	2.23	1.84	.81	1.94	2.89	2.14	2.38	3.80	3.12	2.07	2.26	2.66
4	2.16	2.23	1.59	2.05	1.69	2.35	2.50	3.31	2.73	2.15	2.19	2.52
5	2.45	2.51	1.56	1.93	1.64	2.56	2.70	2.23	2.55	2.21	2.22	2.45
6	2.67	2.44	1.76	1.91	2.62	2.85	2.49	2.24	2.73	2.25	2.13	2.68
7	2.38	2.35	2.01	1.89	2.20	3.11	1.89	2.69	2.83	2.30	2.15	2.65
8	2.00	2.50	.74	1.75	2.66	3.11	2.64	3.35	2.83	2.12	2.35	2.41
9	2.62	1.99	.31	2.11	3.02	2.87	2.99	3.64	2.74	2.20	2.31	2.38
10	2.81	2.14	1.63	1.78	2.37	2.94	2.74	2.79	2.69	2.44	2.33	2.44
11	2.74	2.15	1.78	1.85	2.06	3.25	2.02	3.15	2.55	2.45	2.39	2.63
12	2.93	2.31	.44	1.54	2.10	3.28	2.52	3.95	2.47	2.36	2.44	2.80
13	2.85	2.48	.97	1.60	2.52	3.37	2.97	3.37	2.64	1.90	2.61	2.99
14	2.80	2.72	1.63	2.06	2.59	3.73	2.71	2.97	2.55	1.75	2.65	2.87
15	3.26	2.74	1.69	1.90	3.16	3.23	2.26	3.14	2.61	2.02	2.70	2.65
16	3.24	.85	.52	2.04	2.48	2.83	2.39	3.27	2.67	2.55	2.79	2.57
17	2.51	1.71	1.40	2.21	1.88	2.48	2.47	2.70	2.54	2.77	2.97	2.57
18	1.49	2.23	1.85	2.13	2.40	2.40	2.10	2.47	2.32	2.70	3.02	2.55
19	.89	2.40	1.44	2.40	2.30	2.19	2.39	3.09	2.21	2.58	2.83	2.63
20	1.38	2.11	1.34	2.03	2.34	1.98	2.84	3.14	2.39	2.58	2.66	2.61
21	1.82	1.98	1.29	1.71	3.15	2.21	2.85	2.84	2.42	2.64	2.49	2.79
22	2.02	2.13	-.41	1.79	3.09	2.65	2.60	2.39	2.44	2.73	2.45	2.27
23	2.27	.90	-.63	2.07	1.79	2.27	2.67	2.48	2.19	2.50	2.45	1.89
24	2.28	1.87	.43	2.45	1.72	2.53	2.97	2.87	2.22	2.35	2.11	2.25
25	2.25	2.39	.93	2.19	1.92	2.51	3.19	2.98	2.44	2.25	1.89	2.35
26	2.31	2.23	.83	2.03	2.63	2.05	3.50	2.97	2.22	2.17	1.74	2.37
27	2.17	2.29	1.14	2.98	2.63	2.18	3.45	3.12	2.11	2.21	2.05	2.31
28	2.49	1.80	1.31	3.10	2.61	2.77	3.01	2.99	2.19	2.38	2.41	2.35
29	2.56	1.02	1.79	2.89	---	3.04	3.13	2.95	2.42	2.43	2.29	2.38
30	2.56	1.24	1.97	3.12	---	3.14	3.04	3.42	2.54	2.27	1.99	2.46
31	1.91	---	1.82	3.07	---	2.93	---	3.35	---	2.29	2.14	---
MAX	3.26	2.74	2.01	3.12	3.31	3.73	3.50	3.95	3.47	2.77	3.02	2.99
MIN	.89	.85	-.63	1.36	1.64	1.98	1.89	2.23	2.11	1.75	1.74	1.89

08022040 SABINE RIVER NEAR BECKVILLE, TX

LOCATION.--Lat 32°19'38", long 94°21'12", Panola County, Hydrologic Unit 12010002, at downstream side of highway embankment near right end of downstream bridge on U.S. Highway 59, 0.9 mi upstream from Eightmile Creek, 6.0 mi upstream from Farm Road 1794, 8.4 mi northeast of Beckville, 12.4 mi downstream from State Highway 43, and at mile 327.0.

DRAINAGE AREA.--3,589 mi².

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1978, published as "near Tatum".

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 190.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, at site 12.4 mi upstream at datum 14.18 ft higher. Prior to Sept. 21, 1945, nonrecording gage.

REMARKS.--No estimated daily discharges. Records fair. Eight major reservoirs, with a combined capacity of 1,701,000 acre-ft, largely regulated flow. Several diversions above station and below Lake Tawakoni for oil field operation, municipal, and industrial uses. Low flows are sustained by sewage effluents returned to the river above the station. For statement regarding regulation by Soil Conservation Service floodwater-retarding structures, see station 08018500.

AVERAGE DISCHARGE.--22 years (water years 1939-60) prior to regulation by Lake Tawakoni, 2,663 ft³/s (1,929,000 acre-ft/yr); 30 years (water years 1961-90) regulated, 2,321 ft³/s (1,682,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft³/s Apr. 4, 1945 (gage height, 33.80 ft), site and datum then in use, from graph based on gage readings, from rating curve extended above 66,000 ft³/s on basis of partly estimated measurement of 88,900 ft³/s; minimum observed, 2.4 ft³/s Aug. 11, 1964. Maximum stage since at least 1884, that of Apr. 4, 1945.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1884 reached a stage of about 2 ft lower than flood of Apr. 4, 1945. These dates and gage heights are based on information for stations near Tatum (08022000) and at Logansport, La. (08022500).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,200 ft³/s May 14 at 1530 hours (gage height, 31.40 ft); minimum daily, 91 ft³/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	233	185	686	6250	1930	12500	11100	6990	563	345	106
2	114	194	179	601	6930	1860	12100	10500	8570	438	935	104
3	123	183	169	564	8310	1700	11600	9890	8460	365	1170	101
4	113	207	163	676	8650	1550	11000	9270	8560	311	674	104
5	109	202	159	729	7560	1430	10400	8700	7930	274	531	109
6	101	183	161	614	5980	1370	10100	8030	6900	252	594	109
7	101	169	169	575	4840	1370	10300	7340	6010	276	681	108
8	111	156	167	536	4360	2660	10400	6910	5490	256	568	105
9	125	147	167	475	4280	4560	10400	7380	5280	228	440	100
10	128	147	171	419	5770	5160	10600	9270	5250	218	368	105
11	199	147	165	381	7210	5400	11000	11100	5230	273	313	468
12	205	146	163	353	7480	5550	11200	14400	5140	251	269	1550
13	171	145	168	329	6770	5650	11100	25200	4940	228	231	1620
14	156	142	172	319	6320	5770	11200	32400	4300	205	211	1360
15	139	139	171	295	6200	6160	11900	31500	3060	191	293	954
16	125	128	170	284	6200	6640	12600	27200	2050	187	229	804
17	117	120	168	295	6250	7230	12300	23300	1620	184	192	724
18	110	120	167	966	6160	8100	12000	19800	1400	211	181	589
19	106	122	169	3330	6110	9060	11800	17200	1080	441	181	475
20	107	123	214	6220	6010	9970	11600	15100	835	402	173	376
21	103	125	294	6790	5800	10700	11400	14100	698	323	160	316
22	98	157	318	6490	5840	11200	11200	13500	593	309	152	330
23	99	224	338	5980	5430	11500	11200	12700	536	320	157	309
24	94	277	340	5730	4200	11900	11200	12000	493	350	179	309
25	94	234	334	5570	2970	12100	11300	11400	459	331	168	296
26	92	217	334	5390	2340	12200	11400	10500	599	330	142	272
27	92	230	341	5210	2100	12400	11500	9440	1090	350	134	258
28	97	223	341	5160	1990	12300	11600	8710	972	307	126	233
29	118	218	355	5910	---	12300	11600	7720	854	271	131	212
30	129	201	402	6520	---	12600	11400	6290	708	256	124	191
31	171	---	555	6560	---	12800	---	5370	---	250	116	---
TOTAL	3738	5259	7369	83957	158310	225120	339900	417320	106097	9151	10168	12697
MEAN	121	175	238	2708	5654	7262	11330	13460	3537	295	328	423
MAX	205	277	555	6790	8650	12800	12600	32400	8570	563	1170	1620
MIN	91	120	159	284	1990	1370	10100	5370	459	184	116	100
AC-FT	7410	10430	14620	166500	314000	446500	674200	827800	210400	18150	20170	25180

CAL YR 1989	TOTAL 1359462	MEAN 3725	MAX 39000	MIN 85	AC-FT 2696000
WTR YR 1990	TOTAL 1379086	MEAN 3778	MAX 32400	MIN 91	AC-FT 2735000

08023080 BAYOU GRAND CANE NEAR STANLEY, LA

LOCATION.--Lat 31°58'45", long 93°56'02", in SW 1/4 SE 1/4 sec.6, T.11 N., R.15 W., De Soto Parish, Hydrologic Unit 12010004, near center of span on downstream side of bridge on U.S. Highway 84, 2.8 mi upstream from Bayou Castor, 2.9 mi west of Stanley, and 3.2 mi east of Logansport.

DRAINAGE AREA.--72.5 mi².

PERIOD OF RECORD.--January 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 172.40 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair, except those for estimated daily discharges and periods of no gage-height record, which are poor.

AVERAGE DISCHARGE.--10 years, 73.1 ft³/s, 13.69 in/yr, 52,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,450 ft³/s, May 18, 1989, gage height, 15.37 ft; minimum, no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	0600	1,590	11.40	May 5	0100	1,550	11.35
Feb. 4	1700	1,340	11.10	May 13	0630	7,180	14.50
Feb. 11	0230	1,640	11.45	June 1	0730	*8,560	*15.03
Mar. 31	Unknown	1,100	Unknown				

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.55	e.80	9.0	48	36	e600	12	4670	6.5	3.4	.18
2	.66	e.50	e.70	6.9	428	68	e140	8.8	1470	5.8	6.3	.16
3	.66	e.30	e.60	5.7	964	94	e75	108	590	5.1	4.9	.14
4	.52	e.22	e.55	6.3	1290	59	e48	1220	86	5.0	3.9	.12
5	.44	e.18	e.50	8.3	832	33	e38	1160	19	19	3.4	.11
6	.44	e.16	e.70	8.5	248	25	e36	418	10	9.0	4.4	.08
7	.71	e.14	3.7	10	31	22	e60	48	7.3	6.5	4.3	.06
8	.28	e.18	3.7	8.9	15	21	e45	23	5.8	5.4	3.4	.04
9	.00	e.19	e2.8	6.8	38	22	e38	18	5.0	4.2	2.9	.02
10	.00	e.15	e2.2	5.0	940	22	e154	16	e4.5	3.2	2.4	.01
11	.00	e.12	e1.8	3.9	1300	20	e610	15	e4.0	2.3	1.9	.02
12	.00	e.10	e1.6	3.6	571	18	e340	1100	e3.7	1.7	1.5	.01
13	.00	e.08	e1.4	4.3	141	17	e80	4640	e3.4	1.7	1.2	.00
14	.00	e.07	e1.3	5.8	61	19	e180	1210	e3.2	2.1	1.0	.00
15	.00	e.07	e1.2	6.5	58	112	e640	492	e3.0	2.6	.93	.00
16	.03	e.80	e1.1	7.3	115	210	e500	158	e2.9	2.6	.87	.00
17	.10	e.78	e1.0	8.1	87	58	e130	147	e2.8	2.7	.79	.00
18	.17	e.60	5.3	291	42	26	e65	135	e2.7	2.9	.73	.00
19	.21	e.50	5.6	887	34	19	e50	107	e2.6	2.5	.67	.00
20	e.01	e.40	e4.5	1460	33	15	e40	75	e2.6	e2.2	.61	.00
21	e.00	e.38	e2.8	1140	80	13	e34	53	e2.5	e2.0	.57	.00
22	e.00	3.6	e2.3	549	545	12	e18	48	e2.5	e1.8	.57	.00
23	e.20	4.3	e2.0	67	635	12	10	24	e2.4	e1.7	.54	.00
24	.30	7.6	e1.8	55	346	11	9.2	17	e3.0	2.8	.50	.00
25	.29	4.1	e1.6	240	68	11	8.5	16	6.4	2.7	.45	.00
26	e.08	2.7	e1.5	264	37	10	8.7	15	9.9	2.4	.40	.00
27	e.04	2.8	e1.3	35	29	10	13	25	13	2.0	.34	.00
28	e.03	e1.6	e1.2	17	25	9.9	50	112	8.5	1.9	.31	.00
29	e.02	e1.2	e1.1	320	---	e40	53	296	6.8	1.7	.28	.00
30	e.10	e1.0	e5.0	475	---	e820	22	217	6.5	1.7	.25	.00
31	.54	---	7.7	304	---	e1100	---	109	---	2.9	.22	---
TOTAL	6.33	35.37	69.35	6218.9	9041	2964.9	4095.4	12042.8	6960.0	116.6	53.93	0.95
MEAN	.20	1.18	2.24	201	323	95.6	137	388	232	3.76	1.74	.032
MAX	.71	7.6	7.7	1460	1300	1100	640	4640	4670	19	6.3	.18
MIN	.00	.07	.50	3.6	15	9.9	8.5	8.8	2.4	1.7	.22	.00
AC-FT	13	70	138	12340	17930	5880	8120	23890	13810	231	107	1.9
CFSM	.00	.02	.03	2.77	4.45	1.32	1.88	5.36	3.20	.05	.02	.00
IN.	.00	.02	.04	3.19	4.64	1.52	2.10	6.18	3.57	.06	.03	.00

CAL YR 1989 TOTAL 54303.99 MEAN 149 MAX 6230 MIN .00 AC-FT 107700 CFSM 2.05 IN. 27.86
WTR YR 1990 TOTAL 41605.53 MEAN 114 MAX 4670 MIN .00 AC-FT 82520 CFSM 1.57 IN. 21.35

e Estimated.

SABINE RIVER BASIN

08023080 BAYOU GRAND CANE NEAR STANLEY, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.28	3.54	4.24	4.84	6.00	4.89	---	4.14	13.14	4.37	4.07	3.09
2	3.31	3.56	4.26	4.70	9.11	5.53	---	4.00	11.20	4.31	4.36	3.07
3	3.31	3.55	4.27	4.60	10.49	5.95	---	5.21	9.63	4.25	4.24	3.06
4	3.28	3.63	4.26	4.65	11.04	5.37	---	10.89	6.28	4.24	4.13	3.04
5	3.27	3.70	4.26	4.79	10.30	4.82	---	10.83	5.02	4.99	4.08	3.04
6	3.27	3.73	4.27	4.81	7.93	4.61	---	8.59	4.63	4.54	4.18	3.02
7	3.32	3.73	4.31	4.90	5.69	4.52	---	5.08	4.43	4.37	4.18	3.00
8	3.24	3.75	4.32	4.83	5.14	4.48	---	4.48	4.31	4.28	4.08	2.99
9	3.16	3.78	4.34	4.69	5.37	4.51	---	4.34	4.24	4.16	4.01	2.97
10	3.14	3.78	4.37	4.53	10.37	4.50	---	4.25	4.22	4.04	3.94	2.97
11	3.15	3.75	4.41	4.43	11.03	4.44	---	4.20	4.21	3.92	3.86	2.97
12	3.16	3.71	4.44	4.39	9.54	4.39	---	8.05	4.18	3.82	3.78	2.97
13	3.16	3.69	4.45	4.47	6.45	4.35	---	13.36	4.13	3.81	3.71	2.96
14	3.14	3.69	4.46	4.61	5.36	4.41	---	10.89	4.16	3.88	3.66	2.96
15	3.14	3.78	4.47	4.67	5.30	6.17	---	9.13	4.19	3.96	3.61	2.96
16	3.18	3.78	4.46	4.73	6.18	7.29	---	6.65	4.23	3.97	3.57	2.96
17	3.23	3.76	4.46	4.78	5.77	5.32	---	6.53	4.23	3.98	3.52	2.96
18	3.28	3.77	4.48	8.09	4.98	4.64	---	6.39	4.26	4.00	3.47	2.96
19	3.31	3.76	4.51	10.34	4.79	4.42	---	6.02	4.30	3.95	3.43	2.96
20	3.31	3.75	4.51	11.25	4.77	4.29	---	5.55	4.31	3.92	3.39	2.95
21	3.34	3.73	4.51	10.82	5.38	4.21	---	5.15	4.31	3.92	3.36	2.94
22	3.36	4.22	4.50	9.55	9.53	4.17	---	5.05	4.31	3.92	3.36	2.94
23	3.36	4.37	4.50	6.26	9.92	4.14	4.07	4.48	4.31	3.92	3.34	2.95
24	3.37	4.65	4.50	6.06	8.24	4.13	4.02	4.25	4.31	3.99	3.31	2.94
25	3.36	4.35	4.51	8.13	5.53	4.10	3.99	4.19	4.36	3.98	3.28	2.93
26	3.36	4.19	4.53	8.24	4.92	4.07	4.00	4.17	4.58	3.94	3.24	2.92
27	3.37	4.20	4.53	5.72	4.71	4.06	4.20	4.45	4.77	3.88	3.20	2.92
28	3.38	4.17	4.53	5.17	4.62	4.06	5.21	5.98	4.51	3.86	3.18	2.91
29	3.39	4.17	4.58	8.54	---	---	5.26	7.93	4.39	3.83	3.16	2.90
30	3.47	4.20	4.65	9.37	---	---	4.51	7.11	4.37	3.82	3.13	2.89
31	3.54	---	4.75	8.34	---	---	---	5.68	---	4.01	3.11	---
MAX	3.54	4.65	4.75	11.25	11.04	---	---	13.36	13.14	4.99	4.36	3.09
MIN	3.14	3.54	4.24	4.39	4.62	---	---	4.00	4.13	3.81	3.11	2.89

08023400 BAYOU SAN PATRICIO NEAR BENSON, LA

LOCATION.--Lat 31°52'30", long 93°39'30", in sec.38, T.10 N., R.13 W., De Soto Parish, Hydrologic Unit 12010004, near right bank on downstream side of bridge on State Highway 512, 2.2 mi east of Benson, and 3.9 mi upstream from Bear Creek.

DRAINAGE AREA.--80.2 mi².

PERIOD OF RECORD.--Annual maximums, water years, 1954-68. Occasional low-flow measurements, water years 1954-63, October 1977 to current year.

REVISED RECORDS.--WDR LA-80-1: 1958(M).

GAGE.--Water-stage recorder. Datum of gage is 208.67 ft above National Geodetic Vertical Datum of 1929. Oct. 29, 1953 to Sept. 30, 1968, crest-stage gage at same site and datum.

REMARKS.--Estimated daily discharges. Records fair, except those for periods of indefinite state-discharge relationship (Nov. 1-21, Nov. 30 to Dec. 6, and Dec. 9-16, 20-29), which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--13 years, 87.2 ft³/s, 14.76 in/yr, 63,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,300 ft³/s, Sept. 20, 1958, gage height, 20.36 ft, from rating curve extended above 8,400 ft³/s on basis of velocity-area study; maximum gage height, 21.19 ft, May 18, 1989; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 10	2200	2,370	16.32	May 13	0300	*9,520	*19.47
May 4	1800	1,810	16.06	June 1	0800	6,260	18.43

Minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	e.93	e.38	16	72	25	502	24	3740	1.4	.04	.00
2	.10	e.67	e.34	10	624	63	119	20	1240	1.1	.00	.00
3	.08	e.50	e.30	7.9	1080	78	59	143	473	.78	.00	.00
4	.06	e.33	e.27	10	826	40	41	1490	128	.77	.00	.00
5	.12	e.21	e.25	12	455	26	33	1080	71	.90	.00	.00
6	.23	e.17	e.22	15	120	21	34	330	44	1.3	.00	.00
7	.29	e.23	2.0	20	62	19	50	67	31	.74	.00	.00
8	.35	e.25	2.1	17	44	18	39	41	24	.72	.00	.00
9	.33	e.16	e1.6	12	114	18	30	39	20	.58	.00	.00
10	.35	e.13	e1.3	8.9	1710	17	144	36	17	.49	.00	.00
11	.35	e.10	e1.0	6.8	1390	16	520	27	15	.43	.00	.00
12	.31	e.09	e.88	5.9	545	14	289	1280	14	.52	.00	.00
13	.27	e.07	e.80	4.8	146	13	66	4830	13	.41	.00	.00
14	.24	e.06	e.72	4.4	66	15	163	1020	13	.34	.04	.00
15	.22	e.50	e.68	4.4	49	182	598	415	12	.20	.54	.00
16	1.4	e.60	e2.0	4.4	43	97	455	109	11	.17	.24	.00
17	3.2	e.52	3.5	5.1	32	34	100	116	11	.17	.18	.00
18	.89	e.32	4.6	134	26	21	50	155	9.7	.21	.15	.00
19	.10	e.27	6.5	488	32	16	38	67	9.1	.21	.09	.00
20	.00	e.24	e4.5	865	28	13	32	50	8.5	.23	.02	.00
21	.00	e2.0	e2.8	961	52	11	28	98	7.8	.26	.00	.00
22	.00	5.1	e2.0	404	569	10	25	85	7.4	.21	.00	.00
23	.09	6.8	e1.6	76	586	9.6	22	42	6.8	.17	.00	.00
24	.36	9.1	e1.3	215	207	9.2	21	32	6.4	.15	.00	.00
25	.17	6.2	e1.1	616	53	8.7	20	27	5.5	.15	.00	.00
26	.32	3.8	e1.0	344	34	8.6	22	24	5.0	.13	.00	.00
27	.30	2.0	e.92	72	27	8.7	107	22	2.7	.10	.00	.00
28	.27	1.0	e.86	58	23	9.6	133	54	2.9	.05	.00	.00
29	.28	.57	e.82	519	---	29	85	87	2.3	.06	.00	.00
30	.58	e.44	10	558	---	737	35	37	1.8	.03	.00	.00
31	1.1	---	17	184	---	1070	---	164	---	.00	.00	---
TOTAL	12.48	43.36	73.34	5658.6	9015	2657.4	3860	12011	5952.9	12.98	1.30	0.00
MEAN	.40	1.45	2.37	183	322	85.7	129	387	198	.42	.042	.000
MAX	3.2	9.1	17	961	1710	1070	598	4830	3740	1.4	.54	.00
MIN	.00	.06	.22	4.4	23	8.6	20	20	1.8	.00	.00	.00
AC-FT	25	86	145	11220	17880	5270	7660	23820	11810	26	2.6	.00
CFSM	.01	.02	.03	2.28	4.01	1.07	1.60	4.83	2.47	.01	.00	.00
IN.	.01	.02	.03	2.62	4.18	1.23	1.79	5.57	2.76	.01	.00	.00
CAL YR 1989	TOTAL 68578.62			MEAN 188	MAX 10700	MIN .00	AC-FT 136000	CFSM 2.34	IN. 31.81			
WTR YR 1990	TOTAL 39298.36			MEAN 108	MAX 4830	MIN .00	AC-FT 77950	CFSM 1.34	IN. 18.23			

e Estimated.

SABINE RIVER BASIN

08023400 BAYOU SAN PATRICIO NEAR BENSON, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.44	7.53	7.57	8.50	10.26	8.60	14.44	8.03	17.16	7.15	7.59	7.69
2	7.44	7.58	7.59	8.12	14.92	9.97	10.87	7.79	15.73	7.25	7.61	7.67
3	7.43	7.63	7.59	7.96	15.65	10.44	9.39	9.40	14.28	7.25	7.64	7.65
4	7.42	7.64	7.60	8.13	15.43	9.27	8.75	15.90	11.07	7.30	7.67	7.62
5	7.44	7.61	7.60	8.25	14.31	8.67	8.45	15.61	9.77	7.40	7.70	7.60
6	7.48	7.84	7.62	8.43	11.31	8.38	8.48	13.16	8.88	7.65	7.73	7.57
7	7.50	8.11	7.64	8.76	10.02	8.27	9.09	9.62	8.34	7.59	7.75	7.53
8	7.53	8.12	7.65	8.57	9.44	8.23	8.68	8.77	8.01	7.70	7.86	7.50
9	7.52	8.03	7.68	8.27	10.15	8.25	8.28	8.68	7.80	7.71	7.88	7.48
10	7.53	7.95	7.73	8.04	16.00	8.19	10.41	8.55	7.63	7.70	7.85	7.49
11	7.53	7.93	7.75	7.87	15.83	8.08	14.66	8.18	7.51	7.68	7.84	7.48
12	7.51	7.97	7.77	7.79	14.70	7.97	12.86	12.04	7.42	7.71	7.85	7.46
13	7.50	7.95	7.78	7.68	11.69	7.91	9.59	17.55	7.39	7.68	7.86	7.45
14	7.49	8.00	7.78	7.65	10.15	8.02	10.90	15.58	7.34	7.65	7.88	7.42
15	7.48	7.94	7.79	7.65	9.61	12.20	14.98	13.88	7.27	7.60	8.08	7.40
16	7.71	7.96	7.79	7.65	9.38	10.80	14.22	10.45	7.24	7.59	7.99	7.38
17	7.95	7.95	7.82	7.71	8.93	9.02	10.44	10.57	7.19	7.59	7.97	7.35
18	7.64	7.92	7.81	10.85	8.65	8.40	9.10	11.37	7.13	7.61	7.95	7.31
19	7.43	7.90	7.84	14.54	8.94	8.09	8.62	9.36	7.09	7.61	7.93	7.30
20	7.32	7.90	7.85	15.50	8.77	7.88	8.37	8.81	7.04	7.62	7.91	7.27
21	7.30	7.91	7.89	15.55	9.28	7.76	8.20	10.08	6.98	7.62	7.89	7.23
22	7.28	7.98	7.90	13.95	14.83	7.70	8.06	9.84	6.95	7.61	7.89	7.20
23	7.26	8.13	7.90	10.34	14.94	7.67	7.93	8.50	6.90	7.59	7.89	7.18
24	7.36	8.32	7.89	11.84	12.26	7.65	7.82	8.11	6.86	7.59	7.88	7.14
25	7.29	8.07	7.90	15.06	9.73	7.61	7.76	7.88	6.85	7.59	7.86	7.11
26	7.34	7.85	7.92	13.57	9.03	7.59	7.89	7.73	7.04	7.58	7.84	7.08
27	7.34	7.64	7.92	10.28	8.70	7.61	10.48	7.64	7.07	7.57	7.82	7.05
28	7.33	7.50	7.93	9.80	8.52	7.67	11.23	8.78	7.28	7.55	7.80	7.02
29	7.33	7.42	7.98	14.59	---	8.49	10.09	9.92	7.28	7.55	7.78	6.99
30	7.41	7.48	8.15	14.83	---	15.06	8.50	8.32	7.20	7.54	7.75	6.95
31	7.51	---	8.57	12.06	---	15.64	---	9.70	---	7.53	7.72	---
MAX	7.95	8.32	8.57	15.55	16.00	15.64	14.98	17.55	17.16	7.71	8.08	7.69
MIN	7.26	7.42	7.57	7.65	8.52	7.59	7.76	7.64	6.85	7.15	7.59	6.95

08025360 SABINE RIVER AT TOLEDO BEND RESERVOIR NEAR BURKEVILLE, TX

LOCATION.--Lat 31°10'25", long 93°33'57", Newton County, Hydrologic Unit 12010005, in powerhouse at right end of Toledo Bend Dam, 10 mi upstream from Sabine River near Burkeville gage, and at mile 156.5.

DRAINAGE AREA.--7,178 mi².

PERIOD OF RECORD.--October 1971 to current year.

Water-quality records.--Chemical and biochemical analyses: October 1967 to September 1986.

GAGE.--Water-stage recorders. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Sabine River Authority).

REMARKS.--No estimated daily discharges. Records fair. Daily discharges are a combination of releases from various outlets at the dam. Discharges for releases through the turbines are computed using scroll case differential pressure relationships and operation logs. Taintor gate releases, low-flow sluiceway releases, bypass gate releases, and turbine leakages are based on discharge measurements and operation logs.

AVERAGE DISCHARGE.--19 years, 5,602 ft³/s (4,059,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 114,000 ft³/s May 19, 1989; minimum daily (estimated), 30 ft³/s Oct. 1-4, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 44,700 ft³/s June 2; minimum daily, 174 ft³/s on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	788	844	204	14400	15700	14900	13400	33800	174	7120	2150
2	3100	861	844	846	14400	15700	14800	13700	44700	3630	7110	174
3	4830	1410	844	888	14700	15300	14800	12700	41300	7010	6910	1480
4	4930	174	844	804	14500	15300	14800	14400	38400	6910	204	1440
5	4910	174	844	815	14500	15200	14600	14500	31900	6940	204	1480
6	4880	865	844	978	15000	14500	14600	14500	24000	6400	4740	1470
7	4750	766	844	204	15500	14500	14600	14400	18900	174	6970	1500
8	174	824	1130	204	15600	14500	14600	14400	15100	174	7360	2060
9	4680	772	733	204	15600	14800	14600	14400	14800	3630	7610	174
10	174	1400	204	204	14200	14600	15000	15100	14400	6960	7250	1420
11	174	174	814	913	14200	14500	14600	14700	14700	6460	7450	1520
12	174	174	862	849	14400	14700	14600	14600	14600	7030	265	1570
13	174	862	534	851	13000	14700	14800	14300	13800	6330	5660	1450
14	174	801	894	204	14800	14700	14700	16900	6000	174	7290	1470
15	174	519	204	874	20800	14700	14700	20200	6080	174	7340	2100
16	174	844	873	844	18000	14900	14600	24100	204	3660	7440	174
17	174	844	204	904	14700	14900	14600	33500	204	7050	7300	1360
18	2450	844	890	812	14700	14800	14800	38200	6190	6990	7530	1400
19	2340	844	823	4030	14500	14900	14700	37700	6120	6970	204	1560
20	531	844	912	3680	14800	14800	14600	37700	3300	6460	5730	1500
21	174	844	903	7540	15400	14800	14500	38200	3060	174	7410	1470
22	174	844	9640	10100	15600	14800	14600	38400	3060	174	7430	2040
23	2790	844	13900	9690	15200	14800	13700	31700	2610	3670	7400	174
24	174	844	4960	9950	15200	14900	14500	23100	3010	7070	5050	1570
25	174	844	204	9910	15100	14900	14400	20300	3600	6960	174	1510
26	174	844	789	9800	15600	14900	14300	17200	6940	6950	174	1500
27	174	844	795	9390	15800	14600	14600	14300	6950	6600	1500	1500
28	174	844	765	9720	13700	14900	14800	21200	7020	174	1500	1630
29	174	844	843	12100	---	14900	14500	26900	6400	174	1490	2040
30	174	844	725	15000	---	15100	14400	25100	174	2680	1310	174
31	710	---	204	14800	---	15000	---	21600	---	7120	1410	---
TOTAL	44207	23224	48713	137312	423900	461300	438300	671400	391322	135046	146535	41060
MEAN	1426	774	1571	4429	15140	14880	14610	21660	13040	4356	4727	1369
MAX	4930	1410	13900	15000	20800	15700	15000	38400	44700	7120	7610	2150
MIN	174	174	204	204	13000	14500	13700	12700	174	174	174	174
AC-FT	87680	46060	96620	272400	840800	915000	869400	1332000	776200	267900	290700	81440
CAL YR 1989	TOTAL 3372510		MEAN 9240		MAX 114000		MIN 174		AC-FT 6689000			
WTR YR 1990	TOTAL 2962319		MEAN 8116		MAX 44700		MIN 174		AC-FT 5876000			

SABINE RIVER BASIN

08025500 BAYOU TORO NEAR TORO, LA

LOCATION.--Lat 31°18'25", long 93°30'56, in SW 1/4 sec.20, T.4 N., R.11 W., Sabine Parish, Hydrologic Unit 12010005, near right bank on downstream side of bridge on state highway 473, 0.2 mi upstream from Hamby Creek, 2.5 mi northeast of Toro, and 7.8 mi west of Hornbeck.

DRAINAGE AREA.--148 mi².

PERIOD OF RECORD.--October 1955 to September 1986, October 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 138.00 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Nonrecording gage at same site and datum read once daily from Dec. 2, 1985 to May 15, 1986 and twice daily May 16, 1986 to Sept. 30, 1986. Prior to Dec. 2, 1985 at site 500 ft downstream at same datum.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--33 years (water years 1956-86, 1989-90), 155 ft³/s, 14.22 in/yr, 112,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft³/s, Apr. 9, 1968, gage height, 25.73 ft, from rating curve extended above 13,000 ft³/s; minimum discharge, 0.1 ft³/s, Sept. 29, 30, Oct. 1-3, 1956; minimum gage height, 2.40 ft, Sept. 30, Oct. 1, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 21	0330	*7,910	*21.32	Feb. 4	0200	1,850	12.78
Jan. 25	0100	3,840	18.59	Mar. 30	1100	1,840	12.75
Jan. 29	0600	2,640	15.31	June 1	1500	1,970	13.20

Minimum discharge, 4.9 ft³/s, Sept. 30, gage height, 2.84 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	15	635	439	132	919	89	1770	77	11	6.3
2	14	20	14	169	1400	261	268	70	1570	86	12	6.1
3	13	16	15	97	1630	405	188	63	944	40	14	6.4
4	13	15	15	266	1640	224	145	376	1030	e34	13	5.6
5	12	14	14	446	908	157	122	441	596	e30	13	5.7
6	11	14	14	622	388	129	143	165	219	e26	11	5.4
7	11	15	26	987	288	117	230	103	137	e24	12	6.0
8	10	18	50	778	239	110	164	83	104	e23	23	6.2
9	10	21	47	317	235	105	118	243	86	e21	17	6.4
10	10	19	30	156	418	101	151	278	80	e20	13	7.8
11	10	15	24	107	513	94	481	135	72	e19	11	12
12	10	14	21	82	272	89	289	92	68	18	9.8	14
13	9.7	13	19	66	200	84	150	507	63	17	9.7	12
14	9.3	13	17	56	172	86	193	537	51	21	12	13
15	9.4	13	17	51	169	403	515	182	45	22	9.2	11
16	26	13	16	50	189	418	307	115	41	17	11	9.9
17	57	13	16	49	164	195	159	87	37	16	9.5	9.0
18	56	13	17	537	137	131	114	72	35	15	8.6	8.6
19	29	14	18	1560	154	102	95	66	33	15	8.2	8.1
20	22	14	21	4470	155	86	84	60	31	16	8.2	7.4
21	18	15	24	5960	214	76	77	57	e30	16	9.8	6.8
22	16	17	20	2250	1130	72	70	54	e28	16	12	7.3
23	15	22	18	685	975	69	64	48	e27	16	14	6.3
24	15	38	17	1090	334	66	59	43	e26	18	13	5.4
25	14	27	17	3310	205	63	54	40	e25	20	12	5.2
26	14	22	16	2520	163	60	56	38	e25	21	13	5.8
27	13	19	17	995	142	57	224	36	54	16	9.7	5.7
28	13	17	18	529	130	61	573	50	45	14	8.3	5.5
29	13	16	22	2510	---	689	300	138	34	12	7.3	5.7
30	13	15	81	2400	---	1740	137	108	36	12	6.4	5.2
31	15	---	709	1390	---	1620	---	131	---	12	6.4	---
TOTAL	515.4	512	1385	35140	13003	8002	6449	4507	7342	730	348.1	225.8
MEAN	16.6	17.1	44.7	1134	464	258	215	145	245	23.5	11.2	7.53
MAX	57	38	709	5960	1640	1740	919	537	1770	86	23	14
MIN	9.3	13	14	49	130	57	54	36	25	12	6.4	5.2
AC-FT	1020	1020	2750	69700	25790	15870	12790	8940	14560	1450	690	448
CFSM	.11	.12	.30	7.66	3.14	1.74	1.45	.98	1.65	.16	.08	.05

CAL YR 1989	TOTAL 137048.4	MEAN 375	MAX 12100	MIN 9.3	AC-FT 271800	CFSM 2.54
WTR YR 1990	TOTAL 78159.3	MEAN 214	MAX 5960	MIN 5.2	AC-FT 155000	CFSM 1.45

e Estimated.

SABINE RIVER BASIN

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08025500 BAYOU TORO NEAR TORO, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.28	3.40	3.31	7.99	7.05	5.07	9.12	4.54	12.48	4.41	3.16	2.92
2	3.28	3.49	3.31	5.46	11.13	6.02	6.08	4.30	11.78	4.55	3.19	2.91
3	3.26	3.37	3.32	4.85	12.02	6.87	5.50	4.19	9.24	3.91	3.26	2.93
4	3.23	3.31	3.31	6.09	12.03	5.81	5.12	6.55	9.65	---	3.25	2.88
5	3.19	3.30	3.30	7.13	9.14	5.30	4.90	7.02	7.79	---	3.23	2.89
6	3.16	3.28	3.31	7.93	6.79	5.04	5.09	5.30	5.77	---	3.16	2.87
7	3.14	3.31	3.64	9.51	6.24	4.92	5.82	4.70	5.11	---	3.19	2.91
8	3.13	3.43	4.17	8.63	5.93	4.85	5.29	4.46	4.79	---	3.53	2.92
9	3.12	3.54	4.13	6.44	5.90	4.80	4.86	5.86	4.57	---	3.37	2.93
10	3.13	3.44	3.77	5.40	6.93	4.75	5.13	6.12	4.49	---	3.24	3.00
11	3.13	3.32	3.61	4.95	7.41	4.67	7.24	5.02	4.39	---	3.15	3.20
12	3.11	3.27	3.51	4.68	6.13	4.61	6.17	4.58	4.33	3.39	3.10	3.28
13	3.10	3.24	3.45	4.46	5.64	4.54	5.17	7.23	4.26	3.37	3.10	3.19
14	3.08	3.24	3.41	4.31	5.43	4.56	5.44	7.50	4.09	3.48	3.20	3.24
15	3.09	3.24	3.39	4.22	5.40	6.83	7.43	5.43	4.00	3.51	3.07	3.13
16	3.60	3.25	3.37	4.19	5.57	6.93	6.29	4.83	3.92	3.37	3.15	3.10
17	4.26	3.24	3.36	4.18	5.36	5.60	5.25	4.52	3.87	3.33	3.09	3.06
18	4.28	3.25	3.38	6.95	5.12	5.06	4.83	4.33	3.81	3.31	3.05	3.05
19	3.75	3.28	3.44	11.75	5.27	4.77	4.61	4.24	3.78	3.31	3.03	3.02
20	3.54	3.29	3.52	18.93	5.28	4.57	4.48	4.14	3.75	3.33	3.03	2.99
21	3.44	3.33	3.60	20.00	5.59	4.45	4.38	4.10	---	3.32	3.10	2.95
22	3.36	3.38	3.51	14.02	10.07	4.39	4.30	4.05	---	3.34	3.20	2.98
23	3.33	3.56	3.42	8.14	9.43	4.36	4.22	3.95	---	3.34	3.28	2.92
24	3.31	3.96	3.38	9.37	6.48	4.32	4.14	3.86	---	3.40	3.22	2.87
25	3.30	3.70	3.37	17.18	5.68	4.27	4.06	3.81	---	3.45	3.20	2.86
26	3.27	3.55	3.37	14.91	5.35	4.22	4.08	3.76	---	3.48	3.21	2.90
27	3.26	3.46	3.39	9.44	5.16	4.18	5.77	3.73	4.08	3.33	3.10	2.89
28	3.25	3.41	3.43	7.39	5.05	4.23	7.69	3.97	3.99	3.25	3.03	2.88
29	3.23	3.37	3.56	14.91	---	8.06	6.26	5.04	3.80	3.20	2.98	2.89
30	3.24	3.34	4.37	14.56	---	12.41	5.05	4.75	3.83	3.19	2.93	2.86
31	3.32	---	8.32	11.04	---	11.98	---	4.69	---	3.18	2.93	---
MAX	4.28	3.96	8.32	20.00	12.03	12.41	9.12	7.50	---	---	3.53	3.28
MIN	3.08	3.24	3.30	4.18	5.05	4.18	4.06	3.73	---	---	2.93	2.86

08026000 SABINE RIVER NEAR BURKEVILLE, TX

LOCATION.--Lat 31°03'50", long 93°31'10", Newton County, Texas-Vernon Parish, Louisiana State line, Hydrologic Unit 12010005, near left edge of low-water channel at downstream side of bridge on State Highway 63, about 200 ft downstream from Pearl Creek, 10 mi northeast of Burkeville, 16 mi downstream from Bayou Toro, and at mile 139.7.

DRAINAGE AREA.--7,482 mi².

PERIOD OF RECORD.--September 1955 to current year. Published as "below Toledo Bend near Burkeville" for period 1955-75.

Water-quality records.--Chemical and biochemical analyses: May 1968 to September 1986. Pesticide analyses: October 1972 to September 1981.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 60.59 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1958, nonrecording gage at current site. Prior to Jan. 1, 1989, at datum 10.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Toledo Bend Reservoir (station 08025350) 16.8 mi upstream, capacity, 4,660,000 acre-ft. National Weather Service rain gage and gage-height telemeters at gage.

AVERAGE DISCHARGE.--11 years (water years 1956-66) prior to completion of Toledo Bend Reservoir, 4,653 ft³/s (3,371,000 acre-ft/yr); 24 years (water years 1967-90) regulated, 5,438 ft³/s (3,940,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 116,000 ft³/s May 20, 1989 (gage height, 47.45 ft); minimum daily, 38 ft³/s Sept. 14, 15, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1860, that of May 20, 1989. Flood in May 1884 reached a stage of 45.9 ft, current datum from information by local resident. Flood of Apr. 15, 1945, reached a stage of 45.8 ft, current datum, and flood of May 23, 1953, reached a stage of 45.3 ft, current datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,200 ft³/s June 3 at 1500 hours (gage height, 39.30 ft); minimum daily, 261 ft³/s Nov. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2550	590	662	1130	16200	15900	17300	14100	27600	501	6810	1690
2	1460	1050	668	1120	16500	16300	16000	13900	34500	1470	6740	1060
3	4720	1330	663	1190	17500	16300	15400	12800	38400	6900	7010	673
4	5150	807	659	1630	17700	16000	15300	14700	38500	7190	2240	1570
5	4780	284	673	1550	16700	15900	15100	15400	37500	7110	324	1310
6	4760	580	691	2240	16200	15200	15100	15000	32600	7130	2120	1410
7	5360	940	809	2450	16200	14800	15100	14700	26200	2390	6470	1150
8	2100	766	1040	1770	16500	14900	14900	14700	19300	460	6890	1670
9	2820	789	770	1160	17200	15000	14900	15200	16500	1510	7000	1120
10	2440	1210	588	721	16200	15100	15100	15500	15600	6780	6950	726
11	439	895	522	755	15400	14800	15200	15400	15500	6700	6890	1210
12	390	261	827	1060	15300	15000	15100	15100	15300	7230	2830	1460
13	373	389	1110	947	14800	15000	15000	14800	15600	7110	3100	1500
14	357	935	653	917	13300	15000	15000	16000	8000	2260	6930	1410
15	346	619	549	674	e22000	15400	15300	19600	6780	412	7010	1680
16	607	604	458	984	e18000	e15400	15200	21500	4070	1490	7150	1090
17	632	655	621	1040	e16000	e15400	14900	26500	737	6810	7090	635
18	1280	662	583	2170	e15000	e15300	15000	32300	3170	7110	7150	1300
19	3230	664	839	5900	e14500	e15200	14800	34300	6630	7110	2880	1300
20	1150	673	879	11900	15000	e15100	14800	34900	5210	7220	3200	1380
21	373	682	815	13100	15800	15100	14700	35500	3440	2470	7110	1400
22	322	694	5880	15100	18000	15100	14800	36000	3100	437	7230	1390
23	1630	720	14300	12300	17500	15100	14100	35700	2860	1780	7240	1170
24	1430	695	7470	11800	16500	15100	14600	30900	2920	6880	6350	606
25	321	708	939	16200	15900	15200	14700	24800	3190	7260	1660	1290
26	296	703	746	15100	16200	15200	14600	20900	6840	7290	345	1280
27	288	711	725	12400	16400	14800	15700	16300	7130	7100	809	1310
28	280	714	927	11100	15000	15100	16400	17500	7370	2460	1320	1280
29	282	675	1010	e16000	---	17400	15700	24800	7230	277	1470	1540
30	290	659	958	e15800	---	18900	15000	26300	2610	671	1380	1030
31	596	---	1180	e16000	---	18300	---	23000	---	6120	1370	---
TOTAL	51052	21664	49214	196208	457500	482300	454800	668100	414387	137638	143068	37640
MEAN	1647	722	1588	6329	16340	15560	15160	21550	13810	4440	4615	1255
MAX	5360	1330	14300	16200	22000	18900	17300	36000	38500	7290	7240	1690
MIN	280	261	458	674	13300	14800	14100	12800	737	277	324	606
AC-FT	101300	42970	97620	389200	907500	956600	902100	1325000	821900	273000	283800	74660
CAL YR 1989	TOTAL 3798819		MEAN 10410		MAX 111000		MIN 261		AC-FT 7535000			
WTR YR 1990	TOTAL 3113571		MEAN 8530		MAX 38500		MIN 261		AC-FT 6176000			

e Estimated.

SABINE RIVER BASIN

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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, Hydrologic Unit 12010005, near center of span on downstream side of bridge on parish road from Rosepine to Evans, just downstream from Pocosin Creek, and 4.8 mi northwest of Rosepine.

DRAINAGE AREA.--365 mi².

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 2122: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 118.09 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 11, 1954, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Records good. Some effect from storage in Anacoco Lake (usable capacity, 41,300 acre-ft) except January 1956 to September 1958 and Vernon Lake (usable capacity, 58,000 acre-ft) since May 1963. Occasional regulation July to September in most years caused temporary lowering of the reservoirs upstream. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--39 years, 471 ft³/s, 17.52 in/yr, 341,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,300 ft³/s, May 19, 1953, gage height, 28.38 ft; minimum, 4.0 ft³/s, Sept. 28, 29, 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,600 ft³/s, Jan. 21, gage height, 22.39 ft; minimum, 11 ft³/s, Aug. 31, Sept. 1, gage height, 2.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	493	77	e700	2940	552	2940	318	398	33	18	13
2	25	466	92	e800	2080	712	1760	257	552	31	18	23
3	23	385	98	e500	1930	723	1060	211	549	32	19	23
4	21	364	96	386	1880	618	741	444	1230	126	15	22
5	20	359	97	443	1760	501	550	585	1590	42	13	18
6	20	356	97	841	1350	423	506	532	1040	35	20	17
7	19	248	165	899	1010	374	555	420	651	28	29	14
8	19	222	201	1280	828	339	461	411	440	26	21	13
9	21	181	151	1420	1130	322	378	1240	321	23	15	13
10	20	110	124	1160	1760	310	330	1130	249	22	13	14
11	18	79	112	845	2010	296	365	728	259	21	12	24
12	17	75	106	629	1670	275	410	494	231	23	12	32
13	17	73	103	437	1160	267	388	392	172	37	17	33
14	17	76	101	349	868	262	462	326	136	28	20	36
15	18	82	101	298	782	1310	746	263	114	22	16	68
16	34	84	99	265	761	1660	602	218	97	22	14	39
17	31	83	98	246	685	1280	454	189	84	23	13	25
18	55	80	105	1290	563	774	382	176	71	22	13	21
19	79	78	125	2750	564	551	303	149	63	21	13	20
20	70	76	120	4400	558	419	254	133	55	49	14	23
21	60	75	110	14200	657	331	222	136	47	29	39	33
22	52	89	104	11500	1940	279	208	121	42	38	28	23
23	48	158	100	5860	2180	245	195	112	38	59	25	27
24	46	121	103	3980	1890	225	171	94	36	210	28	35
25	45	94	115	4200	1130	215	149	81	34	60	22	32
26	43	88	101	5290	807	199	136	73	33	39	18	24
27	39	86	101	5910	634	182	341	66	46	25	15	20
28	260	88	101	3730	528	171	568	104	55	21	14	18
29	457	84	130	3290	---	1920	518	195	39	18	13	16
30	483	78	e150	3540	---	3350	402	148	35	15	13	16
31	515	---	e300	3530	---	3480	---	124	---	17	11	---
TOTAL	2619	4931	3683	84968	36055	22565	16557	9870	8707	1197	551	735
MEAN	84.5	164	119	2741	1288	728	552	318	290	38.6	17.8	24.5
MAX	515	493	300	14200	2940	3480	2940	1240	1590	210	39	68
MIN	17	73	77	246	528	171	136	66	33	15	11	13
AC-FT	5190	9780	7310	168500	71520	44760	32840	19580	17270	2370	1090	1460
CFSM	.23	.45	.33	7.51	3.53	1.99	1.51	.87	.80	.11	.05	.07
IN.	.27	.50	.38	8.66	3.67	2.30	1.69	1.01	.89	.12	.06	.07

CAL YR 1989 TOTAL 334866 MEAN 917 MAX 27400 MIN 17 AC-FT 664200 CFSM 2.51 IN. 34.13
WTR YR 1990 TOTAL 192438 MEAN 527 MAX 14200 MIN 11 AC-FT 381700 CFSM 1.44 IN. 19.61

e Estimated.

SABINE RIVER BASIN

08028000 BAYOU ANACOCO NEAR ROSEPIKE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.10	6.27	3.54	---	16.70	6.57	16.70	5.22	5.66	3.13	3.03	2.97
2	3.08	6.12	3.65	---	13.42	7.38	12.08	4.80	6.58	3.10	3.03	3.09
3	3.05	5.66	3.70	---	12.82	7.44	9.04	4.48	6.56	3.12	3.04	3.09
4	3.03	5.53	3.69	5.66	12.60	6.90	7.52	5.94	9.76	3.85	3.00	3.08
5	3.01	5.49	3.69	5.98	12.13	6.31	6.56	6.74	11.38	3.21	2.98	3.03
6	3.01	5.47	3.69	8.01	10.38	5.88	6.34	6.47	8.92	3.15	3.05	3.02
7	3.01	4.77	4.19	8.29	8.82	5.59	6.59	5.86	7.07	3.08	3.16	2.98
8	3.00	4.59	4.45	10.04	7.95	5.37	6.10	5.76	5.97	3.06	3.07	2.97
9	3.02	4.31	4.10	10.67	9.35	5.26	5.61	9.85	5.24	3.02	3.00	2.97
10	3.01	3.79	3.90	9.50	12.13	5.18	5.30	9.38	4.75	3.01	2.97	2.99
11	2.98	3.56	3.81	8.03	13.14	5.09	5.53	7.45	4.81	3.00	2.96	3.10
12	2.98	3.52	3.77	6.96	11.75	4.95	5.80	6.27	4.63	3.02	2.97	3.19
13	2.97	3.51	3.74	5.96	9.49	4.90	5.67	5.69	4.20	3.16	3.02	3.21
14	2.97	3.53	3.73	5.43	8.14	4.86	6.05	5.27	3.93	3.08	3.05	3.23
15	2.99	3.58	3.72	5.10	7.73	10.12	7.55	4.85	3.77	3.01	3.02	3.51
16	3.17	3.59	3.71	4.88	7.62	11.72	6.82	4.53	3.64	3.00	2.98	3.25
17	3.15	3.59	3.70	4.76	7.24	10.03	6.05	4.33	3.54	3.02	2.98	3.11
18	3.36	3.56	3.76	9.76	6.63	7.68	5.64	4.23	3.44	3.01	2.98	3.06
19	3.56	3.55	3.91	16.06	6.64	6.57	5.12	4.03	3.39	3.00	2.97	3.05
20	3.49	3.53	3.87	19.01	6.60	5.85	4.79	3.92	3.32	3.27	2.99	3.09
21	3.41	3.52	3.80	22.13	7.08	5.31	4.56	3.93	3.26	3.09	3.26	3.20
22	3.35	3.64	3.75	21.66	12.84	4.96	4.46	3.83	3.21	3.16	3.15	3.10
23	3.31	4.14	3.71	20.36	13.81	4.72	4.36	3.76	3.17	3.34	3.11	3.13
24	3.29	3.87	3.74	19.17	12.63	4.58	4.20	3.61	3.15	4.54	3.15	3.21
25	3.28	3.67	3.83	19.44	9.34	4.51	4.03	3.52	3.13	3.45	3.07	3.19
26	3.26	3.62	3.72	20.19	7.85	4.40	3.94	3.46	3.12	3.25	3.03	3.10
27	3.23	3.61	3.72	20.46	6.98	4.28	5.36	3.40	3.25	3.12	3.00	3.06
28	4.78	3.63	3.73	18.65	6.45	4.19	6.65	3.70	3.32	3.06	2.99	3.03
29	6.08	3.60	3.95	17.82	---	12.51	6.40	4.36	3.19	3.03	2.98	3.01
30	6.21	3.55	---	18.39	---	17.95	5.75	4.02	3.14	3.00	2.97	3.01
31	6.39	---	---	18.36	---	18.27	---	3.85	---	3.02	2.96	---
MAX	6.39	6.27	---	---	16.70	18.27	16.70	9.85	11.38	4.54	3.26	3.51
MIN	2.97	3.51	---	---	6.45	4.19	3.94	3.40	3.12	3.00	2.96	2.97

08028200 BAYOU ANACOCO NEAR KNIGHT, LA

LOCATION.--Lat 30°52'14", long 93°30'38", in SE 1/4 sec.20, T.2 S., R.11 W., Beauregard-Vernon Parish line, near right bank of low-water channel at downstream side of bridge on State Highway 111, 4.9 mi southwest of Knight, and 5.2 mi upstream from mouth.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--Water years 1958, 1961, 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1969 to September 1972.

WATER TEMPERATURES: December 1969 to September 1971.

COLOR: December 1969 to July 1972.

REMARKS.--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 flow of bayou is sufficient to dilute effluent from mill.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 910 micromhos Oct. 31, 1970; minimum daily, 40 micromhos Jan. 1, 1970, Jan. 7, 1972.

WATER TEMPERATURES: Maximum daily, 33.0 °C June 15, 1970; minimum daily, 7.0 °C Jan. 9, 10, 1970.

COLOR: Maximum daily, 600 units Mar. 16, 1971; minimum daily, 5 units June 20, 27-30, 1970.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 6.0 °C was observed Jan. 19, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

		SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	
OCT 12...	1045	673	7.30	20.5	240	4.2	7.3	1.2	K8	
APR 04...	1100	122	6.92	19.0	80	--	7.5	0.5	2100	
DATE		STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	
OCT 12...	330		43	14	1.9	110	5.4	49	95	
APR 04...	940		16	4.9	0.8	16	1.7	16	16	
DATE		CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHOROUS TOTAL (MG/L AS P)	
OCT 12...	82		0.3	19	434	358	11	E0.87	E0.14	
APR 04...	12		0.3	8.2	95	69	41	0.07	0.07	
DATE		ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	ARSENIC IN BOT- TOM MA- TERIAL (µG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (µG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (µG/G)
OCT 12...	<1	<1	1	<10	<10	<1	<1	<1	8	

< Actual value is known to be less than the value shown.

E Estimated.

K Results based on colony count outside the acceptable range (non-ideal colony count).

08028200 BAYOU ANACOCO NEAR KNIGHT, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	CHROMIUM, HEXA-VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOVERABLE (µG/L AS CU)	COPPER, DIS-SOLVED (µG/L AS CU)	COPPER, RECOVER. FM BOT-TOM MATERIAL (µG/G AS CU)	IRON, DIS-SOLVED (µG/L AS FE)	IRON, RECOVER. FM BOT-TOM MATERIAL (µG/G AS FE)	LEAD, TOTAL RECOVERABLE (µG/L AS PB)	LEAD, DIS-SOLVED (µG/L AS PB)	LEAD, RECOVER. FM BOT-TOM MATERIAL (µG/G AS PB)		
OCT 12...	<1	2	4	<1	520	190	1	<1	<10		
DATE	MANGANESE, DIS-SOLVED (µG/L AS MN)	MANGANESE, RECOVER. FM BOT-TOM MATERIAL (µG/G AS MN)	MERCURY TOTAL RECOVERABLE (µG/L AS HG)	MERCURY DIS-SOLVED (µG/L AS HG)	MERCURY RECOVER. FM BOT-TOM MATERIAL (µG/G AS HG)	NICKEL, TOTAL RECOVERABLE (µG/L AS NI)	NICKEL, DIS-SOLVED (µG/L AS NI)	SELENIUM, TOTAL (µG/L AS SE)	SELENIUM, DIS-SOLVED (µG/L AS SE)	VANADIUM, DIS-SOLVED (µG/L AS V)	ZINC, TOTAL RECOVERABLE (µG/L AS ZN)
OCT 12...	400	16	0.1	<0.1	<0.01	2	3	<1	<1	9	20
DATE	ZINC, DIS-SOLVED (µG/L AS ZN)	ZINC, RECOVER. FM BOT-TOM MATERIAL (µG/G AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	PCB, TOTAL (µG/L)	PCB, TOTAL IN BOT-TOM MATERIAL (µG/KG)	NAPHTHALENES, POLY-CHLOR. TOTAL (µG/L)	PCN, TOTAL IN BOT-TOM MATERIAL (µG/KG)	ALDRIN, TOTAL (µG/L)	ALDRIN, TOTAL IN BOT-TOM MATERIAL (µG/KG)	CHLORDANE, TOTAL (µG/L)	CHLORDANE, TOTAL IN BOT-TOM MATERIAL (µG/KG)
OCT 12...	20	4	24	<0.1	<100	<0.1	<100	<0.01	<10	<0.01	<10
DATE	DDD, TOTAL (µG/L)	DDD, TOTAL IN BOT-TOM MATERIAL (µG/KG)	DDE, TOTAL (µG/L)	DDE, TOTAL IN BOT-TOM MATERIAL (µG/KG)	DDT, TOTAL (µG/L)	DDT, TOTAL IN BOT-TOM MATERIAL (µG/KG)	DI-AZINON, TOTAL (µG/L)	DI-AZINON, TOTAL IN BOT-TOM MATERIAL (µG/KG)	DI-ELDRIN, TOTAL (µG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MATERIAL (µG/KG)	ENDOSULFAN, TOTAL (µG/L)
OCT 12...	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01
DATE	ENDOSULFAN, TOTAL IN BOT-TOM MATERIAL (µG/KG)	ENDRIN, TOTAL (µG/L)	ENDRIN, TOTAL IN BOT-TOM MATERIAL (µG/KG)	ETHION, TOTAL (µG/L)	ETHION, TOTAL IN BOT-TOM MATERIAL (µG/KG)	HEPTA-CHLOR, TOTAL (µG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MATERIAL (µG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (µG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (µG/KG)	LINDANE, TOTAL (µG/L)	LINDANE, TOTAL IN BOT-TOM MATERIAL (µG/KG)
OCT 12...	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10
DATE	MALATHION, TOTAL (µG/L)	MALATHION, TOTAL IN BOT-TOM MATERIAL (µG/KG)	METHOXY-CHLOR, TOTAL (µG/L)	METHOXY-CHLOR, TOT. IN BOTTOM MATL. (µG/KG)	METHYL PARA-THION, TOTAL (µG/L)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (µG/KG)	METHYL TRI-THION, TOTAL (µG/L)	METHYL TRI-THION, TOT. IN BOTTOM MATL. (µG/KG)	MIREX, TOTAL (µG/L)	MIREX, TOTAL IN BOT-TOM MATERIAL (µG/KG)	PARATHION, TOTAL (µG/L)
OCT 12...	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01
DATE	PARATHION, TOTAL IN BOT-TOM MATERIAL (µG/KG)	PER-THANE, TOTAL (µG/L)	PER-THANE, TOTAL IN BOT-TOM MATERIAL (µG/KG)	TOXAPHENE, TOTAL (µG/L)	TOXAPHENE, TOTAL IN BOT-TOM MATERIAL (µG/KG)	TRI-THION, TOTAL (µG/L)	TRI-THION, TOTAL IN BOT-TOM MATERIAL (µG/KG)	2,4-D, TOTAL (µG/L)	2,4-DP, TOTAL (µG/L)	2,4,5-T, TOTAL (µG/L)	SILVEX, TOTAL (µG/L)
OCT 12...	<10	<0.01	<10	<0.5	<500	<0.01	<10	<0.1	<0.1	<0.1	<0.1

< Actual value is known to be less than the value shown.

08028500 SABINE RIVER NEAR BON WIER, TX

LOCATION.--Lat 30°44'49", long 93°36'30", Beauregard Parish, Louisiana-Newton County, Texas State line, Hydrologic Unit 12010005, near left bank at downstream side of bridge on U.S. Highway 190, 0.7 mi upstream from Quicksand Creek, 0.8 mi upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.0 mi east of Bon Wier, 2.4 mi upstream from Caney Creek, and at mile 97.7.

DRAINAGE AREA.--8,229 mi².

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 the National Weather Service.

REVISED RECORDS.--WSP 1342: 1953. WSP 1442: 1924, 1926-27(M), 1929(M), 1939. WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 33.42 ft above National Geodetic Vertical Datum of 1929. Prior to July 8, 1931, nonrecording gage at site 0.8 mi downstream at datum 13.00 ft higher. July 8, 1931, to Oct. 15, 1958, nonrecording gage at present site at datum 13.00 ft higher. Oct. 16, 1958, to Sept. 30, 1975, water-stage recorder at present site at datum 13.00 ft higher. Oct. 1, 1975, to Dec. 31, 1988, at present site at datum 10.00 ft higher.

REMARKS.--Records poor. Flow regulated by Toledo Bend Reservoir (station 08025350) located 58.8 mi upstream. Gage-height telemeter at station.

AVERAGE DISCHARGE.--43 years (water years 1924-66) prior to completion of Toledo Bend Reservoir, 6,846 ft³/s (4,960,000 acre-ft/yr); 24 years (water years 1967-90) regulated, 6,513 ft³/s (4,719,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 115,000 ft³/s May 19, 1953 (gage height, 38.70 ft, current datum); minimum daily, 134 ft³/s Nov. 9, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1833, 43.5 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 39 ft. Floods occurring about 1844 and 1860 were higher than flood in May 1884, from information by local residents. All flood data referenced to current datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,200 ft³/s June 5 at about 1200 hours (gage height, 34.14 ft, from observer reading); minimum daily, 681 ft³/s Oct. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5200	1470	1250	1980	22100	16300	23300	15700	24400	2730	6650	1770
2	2510	1550	1220	1810	20600	17600	21300	14600	27800	1340	7230	2140
3	2510	1740	1230	1730	20200	17900	18800	14000	30800	3170	7270	1510
4	4990	1990	1240	2180	20500	17500	17500	14600	35100	7250	6800	1270
5	5370	1640	1240	3160	20400	17100	16400	16600	38100	7650	2610	1940
6	5180	1110	1260	3720	19300	16700	16300	16600	37900	7500	1170	2000
7	5230	1220	1310	5010	18400	15800	16500	15800	34000	6800	4100	1830
8	5360	1520	1630	4810	18000	15500	16400	15600	28600	2680	7140	1680
9	2160	1350	1750	3870	18800	15600	15900	16800	21800	1220	7330	2100
10	3610	1330	1510	3110	19800	15800	16100	17700	18000	3090	7520	1520
11	2300	1530	1250	2440	19300	15600	16000	17400	16800	6770	7390	1260
12	1030	1390	1040	2190	18600	15600	16000	16700	16600	7020	6400	1740
13	885	793	1380	2110	17500	15600	16000	16300	16400	7590	2820	1970
14	816	800	1620	1920	16000	15800	15800	16000	14700	6520	4430	1970
15	777	1260	1210	1650	16200	16900	17200	17300	9170	2450	7260	1980
16	768	1140	1220	1440	19800	18200	17200	20200	7750	1050	7640	2220
17	1340	1030	919	1650	19800	18000	16300	22500	4020	2930	7450	1450
18	1160	1180	1280	2100	17600	16000	15600	26300	1870	6910	7450	1180
19	1800	1220	1040	7250	16600	16400	15700	29700	4810	7520	6890	1770
20	3190	1230	1440	13200	16400	15900	15500	31700	6920	7420	2950	1880
21	1580	1190	1450	18500	16400	15800	15200	33500	5400	6250	4700	1910
22	925	1220	1420	19700	18300	15700	15000	34600	4040	2680	7250	1930
23	791	1350	6600	21400	20600	15700	15100	35000	3930	1280	7410	2030
24	1910	1450	12300	20900	20200	15200	14700	34000	3540	3170	7370	1570
25	1640	1340	6870	23200	18600	15200	15100	30300	3640	7520	5650	1240
26	820	1280	2070	23100	17500	14900	15000	28000	4350	7320	2000	1850
27	710	1270	1260	18100	17000	15400	16300	20700	7110	7250	969	1850
28	681	1330	1310	18100	17000	15000	17900	17700	7530	6550	1280	1890
29	779	1320	1470	19400	---	18400	17600	20100	7750	2560	1740	1830
30	1060	1270	1590	21800	---	26400	16600	24800	6770	1180	1870	2030
31	1230	---	1660	22200	---	26300	---	24800	---	2310	1790	---
TOTAL	68312	39513	64039	293730	521500	523800	498300	675600	449600	147680	160529	53310
MEAN	2204	1317	2066	9475	18620	16900	16610	21790	14990	4764	5178	1777
MAX	5370	1990	12300	23200	22100	26400	23300	35000	38100	7650	7640	2220
MIN	681	793	919	1440	16000	14900	14700	14000	1870	1050	969	1180
AC-FT	135500	78370	127000	582600	1034000	1039000	988400	1340000	891800	292900	318400	105700

CAL YR 1989 TOTAL 4391424 MEAN 12030 MAX 98000 MIN 681 AC-FT 8710000
WTR YR 1990 TOTAL 3495913 MEAN 9578 MAX 38100 MIN 681 AC-FT 6934000

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 at stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of peak elevation at flood-profile stations. Discharge measurements made at miscellaneous sites for both low flow and high flow; and discharge measurements made for a seepage study are presented following the partial-record tables.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, 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.

PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (ft)	Dis-charge (ft ³ /s)
RED RIVER BASIN							
07348725	Indian Creek at Shongaloo, La.	Lat 32°55'55", long 93°17'30", Webster Parish, at bridge on State Highway 159, and 0.8 mi southeast of Shongaloo.	33.1	1966-90	2- 3-90	45.32	7,900
07351670	Rambin Bayou near Frierson, La.	Lat 32°13'25", long 93°42'15", De Soto Parish, at bridge on State Highway 175, and 1.75 mi south of Frierson.	59.6	1966-90	5-10-89 5-12-90	12.09 11.70	a6,740 5,830
07352400	Kepler Creek at Sparta, La.	Lat 32°22'05", long 93°05'35", Bienville Parish, at bridge on State Highway 507, and 0.8 mi west of Sparta.	21.1	1954-68, 1974-90	5-12-90	44.48	1,510
07353990	Kisatchie Bayou at Kisatchie, La.	Lat 31°25'20", long 93°10'14", Natchitoches Parish, at bridge on State Highway 117 and 0.6 mi north of Kisatchie.	37.3	1966-90	1-20-90	22.97	4,930
07364870	Sugar Creek near Arcadia, La.	Lat 32°41'20", long 92°51'30", Claiborne-Lincoln Parish line, at bridge on State Highway 146, and 10.3 mi northeast of Arcadia.	b47	1966-90	1-18-90	44.43	2,490
07366403	Bayou Choudrant tributary near Tremont, La.	Lat 32°31'55", long 92°27'55", Lincoln Parish, at culvert on Interstate Highway 20, and 1.1 mi northwest of Tremont.	0.54	1966-90	5-31-90	7.53	167
07366420	Bayou Choudrant near Calhoun, La.	Lat 32°32'35", long 92°22'50", Ouachita Parish, at bridge on State Highway 151, and 2.5 mi northwest of Calhoun.	113	1966-90	5-31-90	43.26	4,040
07367250	Guyton Creek near Eros, La.	Lat 32°25'25", long 92°21'30", Ouachita Parish, at culvert on State Highway 546, and 4.3 mi east of Eros.	8.76	1968-90	1-18-90	12.09	1,370
07369360	Bushley Creek at Manifest, La.	Lat 31°42'50", long 91°57'10", Catahoula Parish, at bridge on State Highway 8, and 0.5 mi east of Manifest.	64.7	1984-90	2- 3-90	39.08	4,940

See footnotes at end of table.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (ft)	Dis-charge (ft ³ /s)
RED RIVER BASIN--Continued							
07370600	Beaucoup Creek near Cotton Plant, La.	Lat 32°06'40", long 92°19'20", Winn Parish, at bridge on State Highway 126, and 3.3 mi west of Cotton Plant.	127	1951-68, 1974-90	1-20-90	c10.21	2,120
07372110	Brushy Creek near Joyce, La.	Lat 31°55'10", long 92°33'15", Winn Parish, at bridge on U.S. Highway 84, and 3.0 mi southeast of Joyce.	b24	1965-90	5-12-90	44.79	3,140
MISSISSIPPI RIVER DELTA							
07375222	Abita River north of Abita Springs, La.	Lat 30°28'55", long 90°02'20", St. Tammany Parish, at bridge on State Highway 36, and 0.2 mi north of village of Abita Springs.	46.1	1966-90	2-19-90	d21.28	2,370
07375307	Terrys Creek near Kentwood, La.	Lat 30°57'23", long 90°30'13", Tangipahoa Parish, at bridge on U.S. Highway 51, and 5.1 mi northeast of Kentwood.	52.0	1966-90	1-25-90	13.24	10,500
07377210	Sandy Creek near Pride, La.	Lat 30°40'14", long 90°57'36", East Baton Rouge Parish, at bridge on Carson Road, 0.8 mi east of intersection of Carson Road with State Highway 409, and 1.9 mi southeast of Pride.	69.9	1976-90	1-26-90	d89.96	4,312
MERMENTAU RIVER BASIN							
08011800	Castor Creek near Oberlin, La.	Lat 30°37'10", long 92°37'10", Allen Parish, at bridge on Parish road 0.1 mi upstream from Mulberry Creek, and 8.5 mi east of Oberlin.	43.9	1964-90	1-27-90	d46.52	2,820
CALCASIEU RIVER BASIN							
08013610	Whisky Chitto Creek tributary near Leesville, La.	Lat 31°06'55", long 93°09'50", Vernon Parish, at culvert on Ninth Street in North Fort Polk, and 3.2 mi upstream from mouth.	0.32	1966-90	1-20-90	8.43	303
08015200	Dry Creek at Dry Creek, La.	Lat 30°39'25", long 93°02'45", Beauregard Parish, at bridge on State Highway 113, and 1.0 mi south of Dry Creek.	42.7	1954-68, 1975-90	11-29-89	20.88	1,970
SABINE RIVER BASIN							
08024030	Bayou Scie at Zwolle, La.	Lat 31°37'45", long 93°37'40", Sabine Parish, at bridge on U.S. Highway 171, and 1.0 mi east of Zwolle.	45.9	1950-68, 1974-90	1-20-90	11.97	2,720
08025850	Pearl Creek at State Highway 111, at Burr Ferry, La.	Lat 31°04'32", long 93°29'22", Vernon Parish, at bridge on State Highway 111, and 0.8 mi northeast of Burr Ferry.	9.66	1967-90	1-20-90	8.68	1,290

a Revised peak.

b Approximately.

c From flood mark.

d Elevation; National Geodetic Vertical Datum of 1929 (NGVD of 1929).

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 1990

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
PEARL RIVER BASIN						
02491800	Bogue Chitto at Enon, La.	Lat 30°43'10", long 90°05'00", Washington Parish, at bridge on State Highway 437, and 0.5 mi south of Enon.	1,107	1950-63, 1973-90	1-27-90	107.64
RED RIVER BASIN						
07348010	Twelvemile Bayou below Dixie, La.	Lat 32°36'25", long 93°48'35", Caddo Parish, at bridge on U.S. Highway 71, and 6.0 mi southeast of Dixie.	(a)	1979-85b, 1986-90c	5-16-90	166.68
07349365	Macks Bayou at Bossier City, La.	Lat 32°31'59", long 93°40'24", Caddo Parish, at bridge on U.S. Highway 80, and 3.3 mi northeast of Bossier City Post Office.	(a)	1963-86, 1990	2- 3-90	158.03
07350820	Sand Beach Bayou at Shreveport, La.	Lat 32°26'35", long 93°43'27", Caddo Parish, at bridge on East 70th Street, and 4.3 mi southeast of Shreveport city hall.	(a)	1963-90	2- 3-90	151.12
07351200	Brush Bayou at Shreveport, La.	Lat 32°26'23", long 93°46'52", Caddo Parish, at Southern Pacific Transportation Railway Company railroad bridge, and 4.9 mi southwest of Shreveport city hall.	3.4	1960-90	5-31-90	182.61
07351300	Brush Bayou near Shreveport, La.	Lat 32°23'25", long 93°46'15, Caddo Parish, at bridge on State Highway 526, and 2.5 mi south of Shreveport.	27.1	1960-90	5-31-90	158.80
07351755	Bayou Pierre at Powhatan, La.	Lat 31°51'37", long 93°12'22", Natchitoches Parish, at bridge on State Highway 485, 1.0 mi southwest of Powhatan, and 11.8 mi upstream from mouth.	879	1981-85b, 1986-90c	5-18-90	118.28
07352410	Kepler Lake near Castor, La.	Lat 32°18'40", long 93°09'30", Bienville Parish, at dam on Kepler Lake, and 5.0 mi north of Castor.	46.2	1960-65d, 1966-90	1-20-90	178.06
07354740	Old River at Montrose, La.	Lat 31°34'25", long 92°59'40", Natchitoches Parish, at bridge on State Highway 1 at Montrose.	471	1960-86, 1990	1-20-90	97.10
07355475	Bayou Rapides near Alexandria, La.	Lat 31°18'43", long 92°33'38", Rapides Parish, at bridge on Parish Road 1202, 12.2 mi upstream from mouth, and 6.9 mi west of Alexandria city hall.	(e)	1963-86, 1990	1-20-90	79.40
07355490	Bayou Rapides at control structure, at Alexandria, La. (station discontinued).	Lat 31°17'59", long 92°29'42", Rapides Parish, 100 ft north of State Highway 496, and 3.1 mi west of Alexandria city hall.	(e)	1963-90	1-20-90	75.24

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
RED RIVER BASIN--Continued						
07364203	Bayou Bartholomew northwest of Jones, La.	Lat 32°58'55", long 91°42'00", Morehouse Parish, on right bank, 3.2 mi northwest of Jones.	11.190	1973-85b, 1986-90c	2-26-90	g24.82
07364535	Ouachita River at Sterlington, La.	Lat 32°41'46", long 92°05'12", Ouachita-Union Parish line, on bridge on State Highway 2 at Sterlington.	12.953	1979-90b	4-14-90	79.07
07366270	Bayou D'Arbonne Lake west of Farmerville, La.	Lat 32°47'07", long 92°27'25", Union Parish, on downstream side of bridge on State Highway 2, and 3.1 mi west of Farmerville.	(e)	1979-86, 1990	2-10-90	83.68
07366365	Bayou D'Arbonne below dam, near Downsville, La.	Lat 32°42'46", long 92°20'26", Union Parish, on downstream side of dam at left end, and 7.4 mi northeast of Downsville.	1.607	1978-90	5-12-90	76.48
07367030	Black Bayou at West Monroe, La.	Lat 32°29'55", long 92°08'30", Ouachita Parish, on downstream side of bridge at Interstate 20-State Highway 34 exit, at West Monroe.	(a)	1978-90	5-12-90	g37.85
07367500	Cheniere Brake near Bawcomville, La.	Lat 32°27'10", long 92°11'29", Ouachita Parish, on downstream side of bridge on State Highway 3033, and 1.5 mi southwest of Bawcomville.	147	1944-45b, 1978-86, 1990	5-23-90	g38.01
07367502	Cheniere Creek south of Bawcomville, La.	Lat 32°26'22", long 92°10'20", Ouachita Parish, on downstream side of bridge on State Highway 34, and 1.5 mi south of Bawcomville.	(a)	1978-86, 1990	5-23-90	g40.37
07368040	Boeuf River southwest of Rayville, La.	Lat 32°25'40", long 91°49'05", Richland Parish, on left bank 5.0 mi southwest of Rayville.	(a)	1974-85b, 1986-90c	1-21-90	62.18
07368810	Bayou Galion west of Oak Ridge, La.	Lat 32°37'35", long 91°50'19", Morehouse Parish, on downstream side of bridge on State Highway 134, and 3.7 mi west of Oak Ridge.	(a)	1979-86, 1990	1-20-90	g45.12
07369016	Youngs Bayou at Monroe, La.	Lat 32°29'37", long 92°04'56", Ouachita Parish, at bridge on service road of U.S. Highway 165, and 0.3 mi south of junction with Interstate 20 at Monroe.	(a)	1978-90	1-12-90 5-12-90	65.44 62.93
07369024	Youngs Bayou near Monroe, La.	Lat 32°27'34", long 92°02'49", Ouachita Parish, at bridge on Moore Road, and 3.1 mi southeast of Monroe.	(a)	1978-90	1-12-90 5-12-90	63.14 63.65
07369050	Bayou Lafourche near Alto, La.	Lat 32°23'50", long 91°59'40", Ouachita-Richland Parish line at bridge on State Highway 15, and 8.0 mi west of Alto.	(a)	1973-85b, 1986-90c	1-23-90	61.32
07369455	Brushy Bayou at Tallulah, La.	Lat 32°23'52", long 91°11'57", Madison Parish, at bridge on U.S. Highway 65, at Tallulah.	(a)	1975-80b, 1981-90	5-31-90	75.79

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
RED RIVER BASIN--Continued						
07369457	Lower Roundaway Bayou tributary near Tallulah, La.	Lat 32°22'33", long 91°11'57", Madison Parish, near center of bridge on U.S. Highway 65, and 1.5 mi south of Tallulah.	(a)	1975-80b, 1981-90	5-31-90	72.78
07369460	Roundaway Bayou near Tallulah, La.	Lat 32°23'09", long 91°12'30", Madison Parish, at bridge on State Highway 603, and 1.5 mi southwest of Tallulah.	28	1954-59d, 1978-90	5-31-90	72.65
07369468	Panola Bayou at Tallulah, La.	Lat 32°25'02", long 91°12'24", Madison Parish, at bridge on U.S. Highway 80, and 0.2 mi northwest of Tallulah.	(a)	1978-80b, 1981-90	5-31-90	75.12
07369515	Tensas River southeast of Tendal, La.	Lat 32°23'17", long 91°20'05", Madison Parish, on right bank 3.5 mi southeast of Tendal.	(a)	1975-85b, 1986-90c	1-25-90	70.44
07372190	Little River at Rochelle, La.	Lat 31°47'35", long 92°21'42", Grant-La Salle Parish line, at bridge on U.S. Highway 165, at Rochelle.	1.892	1938-46h, 1948-57h, 1958-85b, 1986-90c	1-23-90	g41.20
BAYOU BATON ROUGE BASIN						
07373965	South Canal near Baker, La.	Lat 30°37'00", long 91°08'56", East Baton Rouge Parish, at bridge on McHugh Rd., 1.4 mi upstream from Cypress Bayou, and 2.3 mi northeast of Baker.	(a)	1972-82b, 1983-87d, 1988-90	1-25-90	72.26
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 mi southwest of Baker.	(a)	1963-70, 1971-90b	1-25-90	54.50
MONTE SANO BAYOU BASIN						
07373993	Monte Sano Bayou at Ryan Airport, at Baton Rouge, La.	Lat 30°32'08", long 91°09'32", East Baton Rouge Parish, at bridge on service road at Ryan Airport, 6.1 mi north of Baton Rouge Post Office.	(a)	1975-90	11- 7-89	58.60
07373996	Monte Sano Bayou at Baton Rouge, La.	Lat 30°30'10", long 91°10'12", East Baton Rouge Parish, at bridge on U.S. Highway 61 at Baton Rouge.	(a)	1975-90	11- 7-89	42.26
MISSISSIPPI RIVER DELTA						
07377215	Little Sandy Creek near Milldale, La.	Lat 30°42'34", long 91°01'26", East Baton Rouge Parish, at bridge on Port Hudson-Pride Road, 2.9 mi north of Milldale.	(a)	1975-90	1-26-90	113.26
07377240	Little Sandy Creek near Greenwell Springs, La.	Lat 30°37'36", long 90°59'20", East Baton Rouge Parish, at bridge on State Highway 409, 3.4 mi north of the village of Greenwell Springs, La.	28.2	1974-85b, 1986-90	1-26-90	65.82
07377250	Sandy Creek near Greenwell Springs, La.	Lat 30°36'08", long 90°59'37", East Baton Rouge Parish, at bridge on State Highway 37, 1.5 mi north of village of Greenwell Springs, La.	(a)	1982-90b	1-26-90	62.20

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07377755	White Bayou East Diversion Channel near Baton Rouge, La.	Lat 30°37'00", long 91°06'55", East Baton Rouge Parish at bridge on U.S. Highway 67 (Plank Road) 12.2 mi north of Baton Rouge, and 6.5 mi north-east of terminal building at Ryan Airport at Baton Rouge.	(a)	1972-84b, 1986-87d, 1988-90	1-25-90	76.23
07377780	White Bayou at State Highway 64, near Zachary, La.	Lat 30°38'10", long 91°07'38", East Baton Rouge Parish, at bridge 1.1 mi east of Zachary.	(a)	1962-75, 1977-90	1-25-90	88.14
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 mi northeast of Baton Rouge Post Office.	(a)	1962-90	1990	<68.4
07377842	White Bayou near Baker, La.	Lat 30°34'45", long 91°07'18", East Baton Rouge Parish at bridge on Pettit Road, and 2.9 mi east of City of Baker.	(a)	1972-84b, 1986-87d, 1988-90	1-25-90	g13.22
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 mi east of State Highway 19 at Baker.	(a)	1967-69, 1971-90	1990	<68.0
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 mi northeast of Baton Rouge Post Office.	(a)	1962-65, 1967-90	11- 8-89 1-25-90	51.45 52.02
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 mi northeast of Baton Rouge Post Office.	(a)	1962-90	11- 8-89 1-25-90	48.24 44.47
07377933	Blackwater Bayou near Fred, La.	Lat 30°35'52", long 91°04'46", East Baton Rouge Parish, at bridge on Dyer Road, 3.8 mi northeast of Baton Rouge Post Office.	(a)	1975-90	11- 8-89 1-25-90	72.64 72.37
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 mi northeast of Baton Rouge Post Office.	14.1	1962-90	11- 8-89 1-25-90	47.69 49.94
07378008	Hurricane Creek at Baton Rouge, La.	Lat 30°28'55", long 91°07'41", East Baton Rouge Parish, at bridge on East Brookstown Drive, 3.9 mi northeast of Baton Rouge Post Office.	(a)	1967-90	1-25-90	46.38
07378010	Hurricane Creek near Baton Rouge, La.	Lat 30°29'14", long 91°05'20", East Baton Rouge Parish, at bridge on Joor Road, 6.2 mi northeast of Baton Rouge Post Office.	(a)	1962-90	1-25-90	43.41
07378015	Roberts Canal at Baton Rouge, La.	Lat 30°30'22", long 91°07'31", East Baton Rouge Parish, at bridge on Silverleaf Ave., 5.3 mi northeast of Baton Rouge Post Office.	(a)	1967-90	11- 8-89 1-25-90	49.34 47.92
07378020	Roberts Canal near Baton Rouge, La.	Lat 30°29'55", long 91°05'17", East Baton Rouge Parish, at bridge on Joor Road, 6.6 mi northeast of Baton Rouge Post Office.	(a)	1962-90	11- 8-89 1-25-90	41.91 46.22

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07378050	Comite River at Greenwell Springs Road, near Baton Rouge, La.	Lat 30°30'20", long 90°02'24", East Baton Rouge Parish, at bridge on Greenwell Springs Road, 9.4 mi northeast of Baton Rouge Post Office.	(a)	1981-88b, 1989-90	1-26-90	44.82
07378075	Beaver Bayou at Denham Road, near Baton Rouge, La.	Lat 30°35'15", long 91°01'29", East Baton Rouge Parish, at culvert 13.7 mi northeast of Baton Rouge Post Office.	(a)	1972-90	1990	(j)
07378091	Beaver Bayou tributary at Hooper Road, near Baton Rouge, La.	Lat 30°33'24", long 91°01'52", East Baton Rouge Parish, at culvert, 12 mi northeast of Baton Rouge Post Office.	(a)	1983-90	11- 7-89	59.60
07378100	Beaver Bayou at Wax Road, near Baton Rouge, La.	Lat 30°32'34", long 91°01'14", East Baton Rouge Parish, at culvert 11.8 mi northeast of Baton Rouge Post Office.	9.49	1972-90	11- 7-89	55.62
07378595	Jones Creek at Airline Highway, at Baton Rouge, La.	Lat 30°27'52", long 91°05'15", East Baton Rouge Parish, at culvert 5.1 mi northeast of Baton Rouge Post Office.	(a)	1967-90	11- 7-89	47.37
07378600	Jones Creek at Florida Boulevard, at Baton Rouge, La.	Lat 30°27'21", long 91°04'29", East Baton Rouge Parish, at bridge 6.5 mi east of Baton Rouge Post Office.	(a)	1962-90	11- 7-89	43.36
07378635	Lively Bayou northeast of Baton Rouge, La.	Lat 30°28'14", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Road, 9.0 mi east of Baton Rouge Post Office.	(a)	1967-90	11- 7-89	39.06
07378640	Lively Bayou east of Baton Rouge, La.	Lat 30°27'40", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Road, 8.9 mi east of Baton Rouge Post Office.	(a)	1967-90	11- 7-89	36.84
07378645	Lively Bayou southeast of Baton Rouge, La.	Lat 30°26'47", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Road, 8.8 mi southeast of Baton Rouge Post Office.	(a)	1967-90	11- 7-89	35.33
07378650	Jones Creek at Old Hammond Highway, near Baton Rouge, La.	Lat 30°26'26", long 91°02'40", East Baton Rouge Parish, at bridge 8.4 mi east of Baton Rouge Post Office.	(a)	1962-90	11- 7-89	34.61
07378670	Weiner Creek near Baton Rouge, La.	Lat 30°25'08", long 91°03'55", East Baton Rouge Parish, at bridge, on Stanley Aubin Drive, 7.3 mi southeast of Baton Rouge Post Office.	(a)	1967-90	1-26-90	40.89
07378700	Jones Creek near Woodlawn School, near Baton Rouge, La.	Lat 30°24'50", long 91°00'50", East Baton Rouge Parish, at bridge on Jones Creek Road, 1.6 mi north of Woodlawn School, and 10.5 mi east of Baton Rouge Post Office.	19.5	1967-90	11- 7-89	30.27
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 mi southeast of Baton Rouge Post Office.	(a)	1967-90	1-27-90	25.44
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 Road, 2.3 mi northeast of Hope Villa.	(a)	1967-90	1-27-90	24.19

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07378780	Bayou Fountain at Ben Hur Road, at Baton Rouge, La.	Lat 30°23'30", long 91°09'36", East Baton Rouge Parish, at bridge 4.2 mi southeast of Baton Rouge Post Office.	(a)	1962-90	1990	<17.3
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 mi southeast of Baton Rouge Post Office.	(a)	1962-66, 1969-90	6- 1-90	14.12
07378805	Bayou Fountain tributary near Baton Rouge, La.	Lat 30°21'00", long 91°04'54", East Baton Rouge Parish, at culvert on Highland Road, 9.1 mi southeast of Baton Rouge Post Office.	(a)	1967-90	6- 1-90	12.32
07379000	Ward Creek at Government Street, at Baton Rouge, La.	Lat 30°20'20", long 91°08'35", East Baton Rouge Parish, on downstream end of culvert on Government Street, and 2.4 mi east of Baton Rouge Post Office.	4.04	1954-67b, 1969-73c, 1975-90b	11- 7-89	43.24
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 mi southeast of Baton Rouge Post Office.	(a)	1970-90	11- 7-89	40.82
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 mi southeast of Baton Rouge Post Office.	(a)	1963-70, 1975-90	11- 7-89	24.09
07379090	North Branch Ward Creek at Goodwood Boulevard, at Baton Rouge, La.	Lat 30°26'34", long 91°05'27", East Baton Rouge Parish, at bridge 5.5 mi southeast of Baton Rouge Post Office.	(a)	1968-90	11- 7-89	37.65
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 mi southeast of Baton Rouge Office.	(a)	1962-90	11- 7-89	27.63
07379400	Dawson Creek at Perkins Road, at Baton Rouge, La.	Lat 30°24'37", long 91°07'53", East Baton Rouge Parish, 4.1 mi southeast of Baton Rouge Post Office.	(a)	1962-90	8-11-87 2-18-88 1-26-90	g,k17.31 g,k17.30 g19.13
07379502	Corporation Canal at Oklahoma Street, at Baton Rouge, La.	Lat 30°26'05", long 91°11'12", East Baton Rouge Parish, at bridge 1.0 mi south of Baton Rouge Post Office.	0.56	1971-90	11- 7-89	25.72
07379503	Corporation Canal at East Roosevelt Street, at Baton Rouge, La.	Lat 30°25'18", long 91°10'36", East Baton Rouge Parish, at bridge 2.0 mi southeast of Baton Rouge Post Office.	f1.31	1971-90b	11- 7-89	23.03
07379508	Corporation Canal at Stanford Avenue at Baton Rouge, La.	Lat 30°24'24", long 91°09'52", East Baton Rouge Parish, at culvert 3.2 mi southeast of Baton Rouge Post Office.	2.43	1971-90	11- 7-89	18.48
07379550	Bayou Duplantier at Lee Drive, at Baton Rouge, La.	Lat 30°24'05", long 91°09'09", East Baton Rouge Parish, at bridge 3.8 mi south of Baton Rouge Post Office.	(a)	1962-70, 1971-90b	11- 7-89	19.10
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 mi southeast of Baton Rouge Post Office.	(a)	1962-90	1990	<19.9

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07380000	Ward Creek at Siegen Lane, near Baton Rouge, La.	Lat 30°22'30", long 91°04'10", East Baton Rouge Parish, at bridge 0.5 mi downstream from Dawson Creek, and 8.5 mi southeast of Baton Rouge Post Office.	40.0	1947-53b, 1955-68d, 1972-90b	11- 7-89	16.48
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 mi northeast of Gonzales water tower.	(a)	1963-90	1990	<7.8
07380226	Bayou Francois near Gonzales, La.	Lat 30°13'57", long 90°56'49", Ascension Parish, at bridge on State Highway 429, 1.8 mi west of Gonzales water tower.	(a)	1963-90	1990	<8.3
07380227	Bayou Francois at Gonzales, La.	Lat 30°13'35", long 90°55'14", Ascension Parish, at bridge on State Highway 44, 0.4 mi southwest of Gonzales water tower.	(a)	1963-90	1990	<7.4
07380231	Soniat Canal at Harahan, La.	Lat 29°56'25", long 90°11'54", Jefferson Parish, on Bellgrove Street at Soniat Canal.	(a)	1989-90b	11- 7-89	g21.65
07380232	Napoleon Canal at Metairie, La.	Lat 29°59'35", long 90°10'05", Jefferson Parish, on Turnbull Street, 0.25 mi south of I-10 service road on upstream side of bridge.	(a)	1990b	11- 7-89	g17.11
073802361	Murphy Canal at Harvey, La.	Lat 29°52'19", long 90°18'51", Jefferson Parish, 0.25 mi west of Harvey Canal bridge on Lapalco Boulevard on upstream side of bridge.	(a)	1989-90b	11- 7-89	g16.57
073802369	Saul Canal at Waggaman, La.	Lat 29°56'53", long 90°14'25", Jefferson Parish, at intersection of Azalea Street and Delores Street behind Live Oak fire station.	(a)	1989-90b	11- 7-89	g7.35
073802373	West Tish Ditch at Avondale, La.	Lat 29°47'39", long 90°12'27", Jefferson Parish, on corner of U.S. 90 and West Tish Street behind Avondale fire station.	(a)	1989-90b	11- 7-89	g22.50
07381002	Bayou Lafourche below weir at Thibodaux, La.	Lat 29°47'56", long 90°04'11", Lafourche Parish, on Canal Street, 1200 ft below State Highway 20 at Thibodaux and approximately 200 ft below weir.	(a)	1986-90b	3-16-90	5.08
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 mi southwest of Alexandria city hall.	(e)	1963-86, 1990	1-20-90	68.40
07382495	Bayou Courtableau near Washington, La.	Lat 30°38'53", long 92°03'40", St. Landry Parish, 0.3 mi downstream from confluence of Bayou Cocodrie and Bayou Boeuf, 2.0 mi northwest of Washington, and 3.4 mi upstream from gaging station, Bayou Courtableau at Washington.	701	1946-75h, 1976-85b, 1986-90c	1-30-90	31.48

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1990--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07382840	Hynson Bayou at Bringhurst Park, at Alexandria, La.	Lat 31°17'19", long 92°27'16", Rapides Parish, on right bank just below bridge on Masonic Drive, and 1.7 mi south of Alexandria city hall.	(a)	1963-86, 1990	1990	<75.3
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 mi south of Alexandria city hall.	(a)	1990	1-20-90	70.20
07382855	Hynson Bayou at Hudson St., at Alexandria, La.	Lat 31°16'15", long 92°25'22", Rapides Parish, at bridge 3.1 mi southeast of Alexandria city hall.	(a)	1963-86, 1990	1-20-90	70.10
07382865	Persimmon Bayou near Alexandria, La.	Lat 31°13'45", long 92°22'51", Rapides Parish, at Texas and Pacific Railway bridge, just downstream from State Highway 1, and 6.7 mi southeast of Alexandria city hall.	(a)	1963-86, 1990	1-20-90	66.09
07383510	Bayou des Glaisses diversion channel near Moreauville, La.	Lat 30°59'59", long 91°58'57", Avoyelles Parish, at bridge on unnumbered parish road, and 2.5 mi south of Moreauville.	284	1972-85b, 1986-90c	1-25-90	21.26
07385470	Bayou Teche at Robin, La.	Lat 30°26'48", long 91°55'22", St. Landry Parish, near center of span on downstream side of bridge between State Highways 31 and 740 at Robin, and 3.7 mi upstream from gaging station, Bayou Teche at Arnaudville.	(a)	1947-85b, 1986-90c	1-26-90	21.53
07385702	Bayou Teche below Keystone Lock and Dam near St. Martinville, La.	Lat 30°04'14", long 91°49'44", St. Martin Parish, on downstream side of Keystone Lock and Dam 3.5 mi south of St. Martinville and 11 mi upstream from Loreauville Canal.	(a)	1985-90c	2- 9-90	9.46
07386201	Bayou Fusilier below weir near Arnaudville, La.	Lat 30°23'57", long 91°56'43", St. Landry Parish, on right bank 150 ft downstream of weir and 200 ft downstream of base gage (07386200), one mi west of Arnaudville and one mi downstream from point of diversion from Bayou Teche.	(a)	1986-90c	1-25-90	20.38
07386705	Ruth Canal at Ruth, La.	Lat 30°14'34", long 91°53'05", St. Martin Parish, on right bank, 150 ft downstream from control structure, 0.5 mi northwest of Ruth, 0.6 mi downstream from point of diversion from Bayou Teche, and 2.5 mi south of town of Breaux Bridge.	(a)	1959-85b, 1986-90c	1-31-90	10.55

< Less than amount shown.

a Drainage area not determined.

b Operated as a continuous-record gaging station.

c Operated as a continuous-record gaging station, daily records unpublished.

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

e Drainage area indeterminate.

f Approximately.

g Gage datum, National Geodetic Vertical Datum of 1929 (NGVD of 1929) of gage not determined.

h Operated as a continuous-record gaging station by the Corps of Engineers.

j Missing record.

k Published in error.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1990

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
PEARL RIVER BASIN						
Bogue Lusa Creek	Pearl River	Lat 30°46'56", long 89°52'24", Washington Parish, on downstream side of bridge on State Highway 439, at Bogalusa, 0.3 mi upstream from Ice Water Branch, 0.9 mi downstream from Adams Creek, and 4.0 mi upstram from mouth.	72.9	1963-86a	11- 8-89 3-27-90	521 148
RED RIVER BASIN						
Ouachita River	Red River	Lat 32°30'19", long 92°07'32", Ouachita Parish, near center of span on downstream side of bridge on U.S. Highway 80 at Monroe, 0.4 mi upstream from Illinois Central Railroad bridge, and 5.5 mi upstream from lock and dam No. 4.	15,298	(b)	11- 8-89 11-20-89 8-10-90 8-16-90 9-13-90	2,280 4,300 2,140 2,200 2,190
Bayou Bonne Idee	Boeuf River	Lat 32°40'00", long 91°41'59", Morehouse Parish, at bridge on unmarked parish road, 5.8 mi northeast of Oak Ridge.	(c)	1984-89	10-10-89 11-13-89 12-11-89 1- 8-90 2-12-90 3-12-90 4- 9-90 5-14-90 6-11-90 7- 9-90 8-13-90 9-10-90	(d) (d) (d) 274 866 386 113 (d) 145 (d) (d) (d)
Pine Creek	Big Creek	Lat 32°15'30", long 91°44'57", Franklin Parish, at bridge on State Highway 15, at Baskin.	(c)	1984-89	10-10-89 11-13-89 12-11-89 1- 8-90 2-12-90 3-12-90 4- 9-90 5-14-90 6-11-90 7- 9-90 8-13-90 9-10-90	2.2 2.8 1.1 130 633 35 11 262 11 3.2 3.2 1.6
Little River	Black River	Lat 31°34'50", long 92°18'35", Grant-LaSalle Parish line, at bridge on State Highway 8, 7.0 mi northeast of Pollock.	2,254	1952-54, 1961-62, 1964-67, 1969, 1971, 1977, 1982-89	10-10-89 11-13-89 12-12-89 1- 8-90 2-12-90 3-12-90 4- 9-90 5-14-90 6-11-90 7- 9-90 8-14-90 9-10-90	70 62 382 3,430 14,200 4,010 8,360 5,050 5,890 425 121 145
MISSISSIPPI RIVER DELTA						
Tchefuncta River	Lake Pontchartrain	Lat 30°29'40", long 90°10'10", St. Tammany Parish, at bridge on U.S. Highway 90, 4.0 mi west of Covington.	145	1951-65e, 1964-67f, 1969, 1972, 1974, 1978-85	11- 8-89 3-15-90	1,350 166
Tangipahoa River	Lake Pontchartrain	Lat 30°56'15", long 90°29'25", Tangipahoa Parish, at bridge on State Highay 71, 1.1 mi east of Kentwood.	296	1959-68e, 1957-63f, 1969, 1974-85e	11- 9-89	616

See footnotes at end of table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1990--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
MISSISSIPPI RIVER DELTA--Continued						
Tangipahoa River	Lake Pontchartrain	Lat 30°46'30", long 90°29'53", Tangipahoa Parish, at bridge on State Highway 10, 0.7 mi east of Arcola.	381	1959-65g, 1967-82g, 1969, 1982-85	11-27-89	397
Big Creek	Tangipahoa River	Lat 30°47'44", long 90°27'06", Tangipahoa Parish, at bridge 4.1 mi northeast of Roseland.	38.4	1964-68, 1988-89	10-10-89	21
					11-14-89	41
					12-11-89	55
					1- 8-90	43
					2-13-90	74
					3-12-90	46
					4- 9-90	38
					5-14-90	36
					6-11-90	150
					7- 9-90	31
					8-13-90	27
					9-10-90	26
East Fork Big Creek	Tangipahoa River	Lat 30°47'27", long 90°26'37", Tangipahoa Parish, at bridge 4.4 mi northeast of Roseland.	31.2	1964-68, 1988-89	10-10-89	15
					11-14-89	21
					12-11-89	50
					1- 8-90	39
					2-13-90	70
					3-12-90	32
					4- 9-90	25
					5-14-90	40
					6-11-90	21
					7- 9-90	17
					8-13-90	14
					9-10-90	15
Amite River	Lake Maurepas	Lat 30°44'10", long 90°50'30", East Feliciana-St. Helena Parish line, at bridge on State Highway 37, 0.5 mi southwest of Grangeville.	741	1951-63e, 1964-82g, 1968, 1973, 1977, 1982-85	11-22-89	460
Bayou Cocodrie	Bayou Courtableau	Lat 30°51'28", long 92°15'31", Evangeline Parish, at bridge on State Highway 106, 0.2 mi south of St. Landry.	(c)	1970, 1982-85	12- 4-89 3-27-90	193 390
MERMENTAU RIVER BASIN						
Bayou Nezpique	Mermentau River	Lat 30°55'00', long 92°35'53", Evangeline Parish, at bridge on State Highway 104, 7.2 mi north of Basile.	(c)	1981-85	11-17-89 3-29-90	5.4 70
CALCASIEU RIVER BASIN						
Calcasieu River	Gulf of Mexico	Lat 30°49'20", long 92°41'04", Allen Parish, at bridge on State Highway 10, 1.4 mi north-east of junction of U.S. Highway 165 and State Highway 10 in Oakdale.	(c)	1953, 1982-85	11-13-89 3-27-90	35 435

a Operated as a continuous-record gaging station.

b Not previously published.

c Drainage area not determined.

d No flow.

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

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

g Operated as a flood-profile partial-record station.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

310552091361200 MISSISSIPPI RIVER (COOCHIE) NEAR BLACK HAWK, LA (CE 01020)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
12...	1000	217000	96	56200	99
25...	1000	185000	72	35900	100
NOV					
07...	1000	190000	117	60000	92
21...	1100	275000	189	140000	97
DEC					
05...	1000	798000	271	584000	87
19...	0930	352000	208	198000	77
JAN					
03...	1030	680000	370	679000	90
17...	1030	823000	--	--	--
31...	1000	991000	178	476000	80
FEB					
14...	1200	825000	172	383000	87
28...	1000	1281000	295	1020000	82
MAR					
14...	1000	1261000	--	--	--
28...	1000	1071000	208	601000	90
APR					
11...	1000	1136000	181	556000	90
25...	0930	1000000	142	383000	83
MAY					
15...	1030	753000	188	382000	91
31...	1030	792000	106	226000	93
JUN					
13...	1030	738000	196	391000	98
27...	1100	891000	190	458000	92
JUL					
11...	1030	952000	132	338000	91
25...	0945	582000	153	240000	96
AUG					
08...	1045	382000	110	113000	95
22...	1115	267000	98	70800	92
SEP					
12...	1030	409000	119	132000	89
26...	1100	567000	376	576000	96

RED RIVER BASIN

310408091424500 RED RIVER ABOVE OLD RIVER OUTFLOW CHANNEL, ABOVE SIMMESPORT, LA (CE 04800)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 1988					
15...	1130	17000	98	4500	100
DEC					
20...	1130	64000	197	34100	80
JAN 1989					
18...	1230	147000	520	207000	66
FEB					
20...	1230	141000	503	191000	58
MAR					
20...	1200	159000	178	76300	87
APR					
17...	0930	144000	146	56900	76
MAY					
30...	1230	231000	711	443000	63
JUN					
26...	1230	170000	509	234000	71
JUL					
24...	1215	184000	608	302000	67
AUG					
05...	1115	127000	286	98100	92
21...	1315	64000	162	28000	83

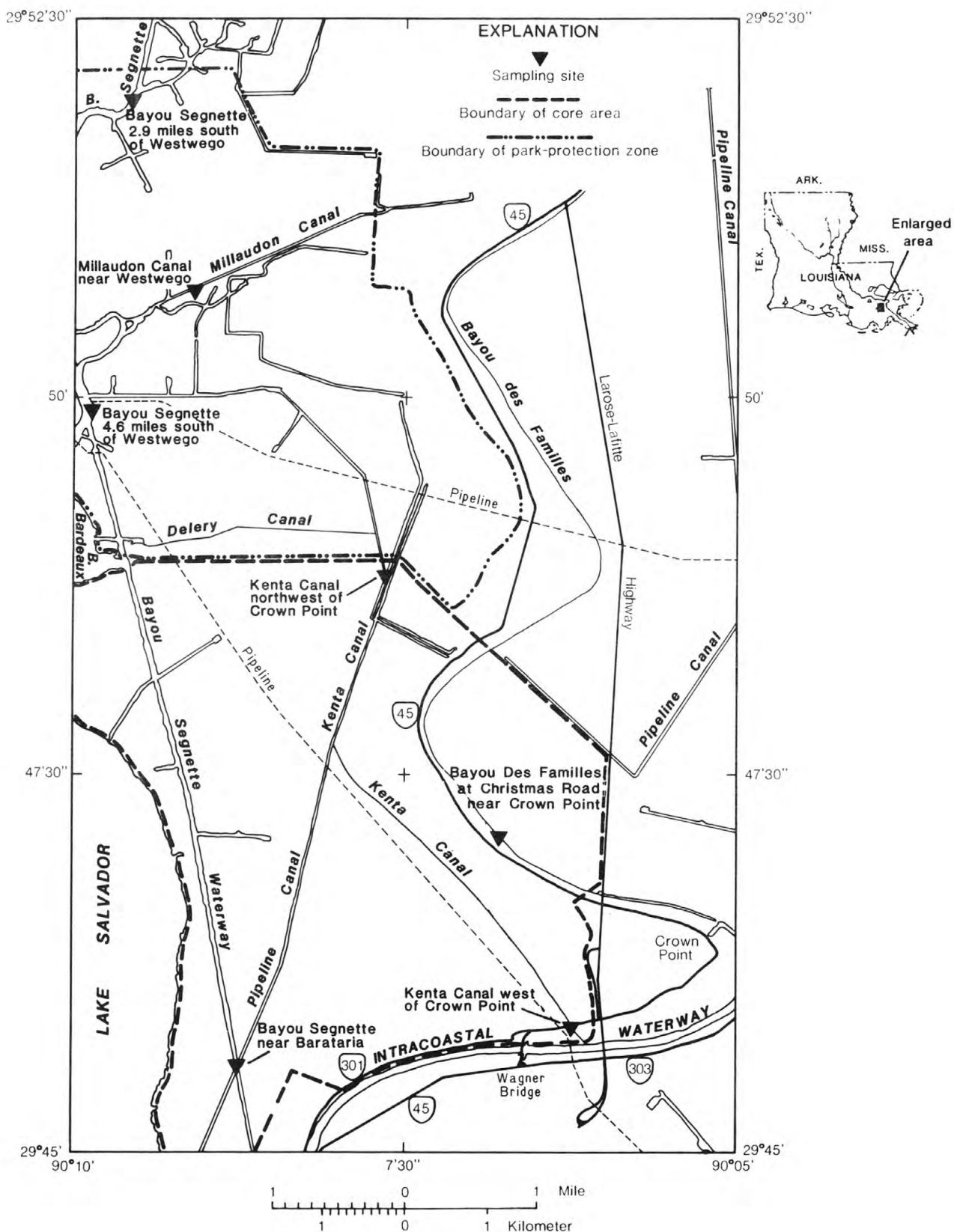


Figure 15.--Location of sampling sites in the Barataria unit, Jean Lafitte National Historical Park.

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY

[THE FOLLOWING WATER-QUALITY SITES WERE SAMPLED AS PART OF AN ONGOING BASIC-DATA STUDY ON THE BARATARIA UNIT OF THE JEAN LAFITTE NATIONAL HISTORIC PARK, IN COOPERATION WITH THE NATIONAL PARK SERVICE]

295202090093200 BAYOU SEGNETTE 2.9 MILES SOUTH OF WESTWEGO, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAR 22...	0830	547	7.16	17.0	80	7.5	3.7	3.6	120	280
JUN 14...	1225	790	7.01	33.0	50	6.7	6.6	4.0	K20	K14
SEP 06...	1045	1210	7.69	31.5	40	9.9	5.7	3.1	64	80

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR 22...	110	26	11	68	3.4	80	34
JUN 14...	150	34	17	91	3.7	98	46
SEP 06...	150	27	20	180	7.5	80	49

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
MAR 22...	100	0.2	4.4	318	295	0.07	0.15	1.1	0.25
JUN 14...	150	0.3	3.1	460	404	0.07	<0.01	1.1	0.42
SEP 06...	290	0.2	3.3	708	625	0.02	0.01	0.72	0.27

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC DATA STUDY--Continued

295040090091600 MILLAUDON CANAL NEAR WESTWEGO, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECA, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)
MAR 22...	0940	653	7.25	17.0	60	10	5.2	3.0	600	--
JUN 14...	1215	943	7.26	31.0	60	4.7	7.0	4.6	78	56
SEP 06...	1105	1090	7.46	31.0	40	4.7	5.4	3.3	48	140

DATE	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DISSOLVED (MG/L AS Ca)	MAGNESIUM, DISSOLVED (MG/L AS Mg)	SODIUM, DISSOLVED (MG/L AS Na)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY, WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DISSOLVED (MG/L AS SO4)
MAR 22...	150	35	14	79	3.4	105	31
JUN 14...	170	36	19	110	3.8	116	27
SEP 06...	160	33	19	160	6.5	98	42

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)
MAR 22...	120	0.2	7.1	380	354	0.17	0.23	1.0	0.30
JUN 14...	200	0.4	3.8	550	470	<0.02	<0.01	0.99	0.47
SEP 06...	240	0.2	3.3	595	563	<0.02	0.01	0.76	0.26

< Actual value is known to be less than the value shown.

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC DATA STUDY--Continued

294957090095300 BAYOU SEGNETTE 4.6 MILES SOUTH OF WESTWEGO, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAR 22...	1000	653	7.17	18.0	80	10	7.2	2.5	90	210
JUN 14...	1150	816	7.34	31.5	50	5.1	6.7	3.0	K38	K24
SEP 06...	1200	3070	7.83	32.0	30	6.0	8.6	4.9	56	66

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR 22...	110	24	12	89	4.1	63	40
JUN 14...	140	27	17	97	4.1	83	32
SEP 06...	320	38	55	490	20	77	130

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
MAR 22...	140	0.1	4.9	374	353	0.20	0.11	1.0	0.13
JUN 14...	180	0.3	2.7	461	410	<0.02	<0.01	0.97	0.24
SEP 06...	820	0.2	2.9	1750	1600	<0.02	0.01	0.60	0.08

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued
 294844090073900 KENTA CANAL NORTHWEST OF CROWN POINT, LA
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAR 22...	0900	764	6.82	16.5	120	4.0	4.5	3.0	80	K30
JUN 14...	1125	798	6.84	30.0	80	--	4.6	3.9	K8	50
SEP 06...	1120	1270	7.34	30.0	50	2.0	4.0	3.9	K8	K48

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR 22...	96	17	13	--	3.6	57	--
JUN 14...	110	20	15	100	2.5	72	36
SEP 06...	150	23	22	190	7.8	75	45

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
MAR 22...	160	0.2	5.4	434	387	0.03	0.11	1.1	0.10
JUN 14...	170	0.3	5.2	452	392	<0.02	<0.01	0.90	0.11
SEP 06...	310	0.1	1.4	745	644	<0.02	0.01	1.2	0.11

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued

294551090061500 KENTA CANAL WEST OF CROWN POINT, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAR 21...	1440	860	7.14	17.5	70	5.0	7.5	3.4	260	74
JUN 15...	0730	402	7.20	29.5	15	--	5.8	2.0	76	230
SEP 06...	1340	1060	7.75	31.5	20	18	6.6	1.7	350	130

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR 21...	150	31	17	120	4.0	100	23
JUN 15...	140	35	12	24	3.2	99	35
SEP 06...	190	42	21	140	7.4	119	65

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
MAR 21...	190	0.3	8.7	501	454	0.02	0.08	1.0	0.14
JUN 15...	33	0.3	4.3	232	210	0.75	0.01	0.44	0.14
SEP 06...	200	0.3	5.2	578	557	1.1	0.01	0.46	0.16

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued
 294539090084500 BAYOU SEGNETTE NEAR BARATARIA, LA
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAR 22...	0940	597	7.34	17.5	60	10	8.2	2.1	K150	80
JUN 14...	1030	905	6.97	32.0	40	3.6	6.8	2.9	<2	K22
SEP 06...	1145	1270	7.53	34.5	50	1.8	6.0	2.6	K40	42

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR 22...	97	19	12	79	4.3	55	39
JUN 14...	130	23	18	120	5.6	69	43
SEP 06...	150	21	23	180	8.6	61	53

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
MAR 22...	120	0.2	4.1	331	311	0.19	0.05	0.78	0.10
JUN 14...	200	0.3	1.4	522	453	<0.02	<0.01	0.84	0.12
SEP 06...	310	0.2	2.5	722	635	0.03	0.01	0.77	0.08

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued

294702090064300 BAYOU DES FAMILLES AT CHRISTMAS ROAD NEAR CROWN POINT, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAR 21...	1500	453	6.97	16.0	70	3.0	2.0	2.8	K36	K14
JUN 15...	0750	512	6.82	28.0	70	1.5	2.2	3.4	K10	90
SEP 06...	1400	781	7.22	28.5	40	3.2	3.3	6.4	150	730

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR 21...	93	23	8.7	54	3.8	71	11
JUN 15...	94	22	9.6	58	2.2	75	12
SEP 06...	180	43	18	91	5.5	147	41

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
MAR 21...	91	0.2	6.6	270	241	0.02	0.22	1.0	0.35
JUN 15...	100	0.4	6.1	295	256	0.03	0.05	0.91	0.35
SEP 06...	140	0.3	13	462	442	0.04	0.03	0.90	0.36

K Results based on colony count outside the acceptable range (non-ideal colony count).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 07381468 BAYOU BOEUF AT US HIGHWAY 190 AT AMELIA, LA
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JUN 1990			
01...	0700	23.5	28
08...	0700	24.0	26
15...	0700	26.0	29
20...	0700	26.0	33
JUL			
01...	0700	27.0	32
08...	0700	27.0	32
30...	0700	27.0	40
AUG			
01...	0700	28.0	39
08...	0700	27.5	37
15...	0700	27.5	42
21...	0700	27.5	39
29...	0700	27.5	36
SEP			
01...	0700	28.5	28
02...	0700	27.5	29
03...	0700	27.5	27
04...	0700	27.5	29
05...	0700	27.5	27
06...	0700	28.0	30
07...	0700	28.0	32
08...	0700	28.5	31
09...	0700	28.5	30
10...	0700	28.5	30
11...	0700	27.0	28
12...	0700	27.0	27
13...	0700	27.0	28
14...	0700	27.0	28
15...	0700	27.5	28
16...	0700	27.0	28

07385800 BAYOU TECHE NEAR FRANKLIN, LA
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JUN			
05...	0946	29.0	28
12...	1345	--	34
19...	0857	30.5	29
25...	0840	29.0	21
JUL			
03...	1038	30.0	20
09...	0817	30.0	19
17...	0915	27.5	18
24...	0812	29.0	18
31...	0838	31.0	19
AUG			
07...	0840	30.5	22
13...	0845	29.0	23
22...	0935	29.0	24
SEP			
04...	0830	30.0	26
11...	0811	29.5	25
18...	1000	29.0	22
25...	0903	25.5	16

07385900 BAYOU TECHE NEAR PATTERSON, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JUN			
05...	0840	30.0	23
12...	1445	32.0	28
19...	0800	31.5	28
25...	0800	31.5	30
JUL			
03...	0852	31.0	24
09...	0740	31.0	23
17...	0803	29.0	24
24...	0735	29.5	24
31...	0730	31.0	24
AUG			
07...	0805	29.5	19
13...	0720	28.0	22
22...	0822	29.5	24
28...	0708	30.5	22
SEP			
04...	0756	29.5	26
11...	0718	29.5	25
18...	0834	29.0	24
25...	0748	26.5	25

293827091192200 INTRACOASTAL WATERWAY AT WAX LAKE EAST OF CONTROL STRUCTURE NEAR CALUMET, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JUN			
05...	1045	25.0	22
11...	0850	26.0	23
19...	1000	30.0	23
JUL			
03...	0805	29.0	18
09...	0916	29.5	16
17...	1020	28.5	22
24...	1008	29.0	20
31...	0937	30.5	21
AUG			
07...	0937	30.5	22
22...	0800	29.0	23
28...	0953	31.0	25
SEP			
04...	0925	30.5	28
11...	0940	29.5	26
18...	0757	29.0	26
25...	1017	27.5	28

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

294022091265500 WAX LAKE (WEST) DRAINAGE AREA AT CONTROL STRUCTURE, NEAR PATTERSON, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JUN			
05...	1015	24.5	21
11...	1100	27.0	22
19...	0928	28.5	24
25...	0913	28.5	65
JUL			
03...	1120	29.5	18
09...	0845	29.0	18
17...	0940	28.5	18
24...	0837	28.5	18
31...	0905	30.0	20
AUG			
07...	0901	30.0	22
13...	0920	29.0	24
22...	1030	29.5	22
28...	0913	30.0	24
SEP			
04...	0855	30.0	25
11...	0836	29.5	24
18...	1130	29.5	34
25...	0932	26.0	23

294520091235300 BAYOU TECHE AT VERDUNVILLE, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JUN			
05...	0937	29.5	29
12...	1407	31.5	32
19...	0848	31.5	25
25...	0830	29.0	24
JUL			
03...	1010	30.5	18
09...	0808	29.0	17
17...	1008	27.5	17
24...	0800	29.0	18
31...	0830	29.5	19
AUG			
07...	0830	29.0	21
13...	0830	29.0	24
22...	0922	29.0	22
28...	0815	30.0	23
SEP			
04...	0822	29.5	26
11...	0802	29.5	25
18...	0920	28.0	21
25...	0853	25.5	24

ACADIA PARISH

301832092234501 LOCAL WELL NUMBER: AC-326

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 6 TO 2 IN., DEPTH 202 FT, SCREENED 192-202. MP* TOP OF 6-IN. CASING, 1.15 FT ABOVE LSD.

LSD 25.8 FT ABOVE NGVD.

HIGHEST WATER LEVEL 48.61 BELOW LSD, MAR. 14, 1965.

LOWEST WATER LEVEL 83.93 BELOW LSD, JULY 5, 1969.

RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	63.49	JAN. 11, 1990	57.88	APR. 4, 1990	61.58	JULY 10, 1990	78.53
OCT. 31	63.82	MAR. 28	58.14				

301832092234503 LOCAL WELL NUMBER: AC-335L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN EVANGELINE AQUIFER OF PLEISTOCENE-MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,363 FT, SCREENED 1,358-1,363. MP TOP OF 1 1/2-IN. PIPE, 3.00 FT ABOVE LSD.

LSD 24.55 FT ABOVE NGVD.

HIGHEST WATER LEVEL 50.43 BELOW LSD, MAR. 31, 1970.

LOWEST WATER LEVEL 64.00 BELOW LSD, FEB. 17, 1981.

RECORDS AVAILABLE 1966-79, 1981, 1983-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	60.89	JAN. 11, 1990	60.13	APR. 4, 1990	59.62	JULY 10, 1990	61.25

301832092234504 LOCAL WELL NUMBER: AC-335U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 907 FT, SCREENED 902-907. MP TOP OF 1 1/2-IN. PIPE, 3.00 FT ABOVE LSD.

LSD 24.55 FT ABOVE NGVD.

HIGHEST WATER LEVEL 43.59 BELOW LSD, MAR. 5, 1968.

LOWEST WATER LEVEL 62.45 BELOW LSD, AUG. 21, 1974.

RECORDS AVAILABLE 1966-79, 1981, 1983-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 1, 1989	54.65	JAN. 11, 1990	52.39	APR. 4, 1990	50.45	JULY 10, 1990	59.95

ALLEN PARISH

304922092401801 LOCAL WELL NUMBER: AL-138

OWNER: CITY OF OAKDALE. (SEC. 4, T. 3S., R. 3W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN THE EVANGELINE AQUIFER OF MIOCENE AGE, DIAM 10 IN., DEPTH 904 FT, SCREENED 740-760, 812-855, 864-874, AND 884-904. MP EDGE OF VENT PIPE, 1.62 ABOVE LSD.

LSD 105 FT ABOVE NGVD.

HIGHEST WATER LEVEL 33.00 BELOW LSD, OCT. 10, 1949.

LOWEST WATER LEVEL 89.80 BELOW LSD, NOV. 1, 1989.

RECORDS AVAILABLE 1949-51, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	89.80C	JAN. 10, 1990	66.45C	APR. 3, 1990	37.83C	JULY 11, 1990	76.12C

303004092541101 LOCAL WELL NUMBER: AL-241

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 29, T. 6S., R. 5W.) BORED OBSERVATION SEMI-ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 62 FT, SCREENED 59-62. MP TOP OF 1 1/4-IN PIPE, 4.00 FT ABOVE LSD.

LSD 42.97 FT ABOVE NGVD.

HIGHEST WATER LEVEL 23.84 BELOW LSD, MAR. 21, 1961.

LOWEST WATER LEVEL 34.26 BELOW LSD, NOV. 8, 1978.

RECORDS AVAILABLE 1957-79, 1981, 1983, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	32.04	JAN. 10, 1990	30.77	APR. 3, 1990	29.89	JULY 11, 1990	32.52

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

ASCENSION PARISH

301544090543901 LOCAL WELL NUMBER: AN-267

OWNER: CITY OF GONZALES. (SEC. 16, T. 9S., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 10 IN., DEPTH 488 FT, SCREENED 388-488. MP VALVE ON HORIZONTAL PIPE, 3.83 FT ABOVE LSD.

LSD 7 FT ABOVE NGVD.

HIGHEST WATER LEVEL 5.60 ABOVE LSD, APR. 6, 1990.

LOWEST WATER LEVEL 3.30 ABOVE LSD, JULY 11, 1989, SEP. 5, 1989.

RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	+4.60	JAN. 19, 1990	+3.80	APR. 6, 1990	+5.60	JULY 24, 1990	+4.50
NOV. 20	+4.80						

AVOYELLES PARISH

310453092022901 LOCAL WELL NUMBER: AV-164

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 47, T. 1N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 192 FT, SCREENED 182-192. MP TOP OF CASING, 3.13 FT ABOVE LSD.

LSD 80 FT ABOVE NGVD.

HIGHEST WATER LEVEL 33.78 BELOW LSD, JUNE 30, 1975.

LOWEST WATER LEVEL 41.69 BELOW LSD, OCT. 3, 1966.

RECORDS AVAILABLE 1966-79, 1985-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1989	36.73	JAN. 10, 1990	36.87	APR. 3, 1990	35.95	JULY 12, 1990	35.97

311336092095901 LOCAL WELL NUMBER: AV-271

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 38, T. 3N., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN., DEPTH 370 FT, SCREENED 365-370. MP TOP OF BUSHING, 3.35 FT ABOVE LSD.

LSD 95 FT ABOVE NGVD.

HIGHEST WATER LEVEL 55.02 BELOW LSD, JULY 18, 1973.

LOWEST WATER LEVEL 67.49 BELOW LSD, MAR. 4, 1981.

RECORDS AVAILABLE 1966-84, 1986-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 7, 1989	63.61	JAN. 5, 1990	63.66	APR. 25, 1990	62.55	JULY 17, 1990	61.13
NOV. 22	63.57						

311708092073701 LOCAL WELL NUMBER: AV-329

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 38, T. 4N., R. 3E.) BORED OBSERVATION SEMI-ARTESIAN WELL IN THE RED RIVER ALLUVIAL AQUIFER OF THE PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 45 FT, SCREENED 42-45. MP TOP OF CASING, AT LSD.

LSD 45.6 FT ABOVE NGVD.

HIGHEST WATER LEVEL 0.10 ABOVE LSD, MAR. 15, 1973.

LOWEST WATER LEVEL 13.00 BELOW LSD, OCT. 27, 1983.

RECORDS AVAILABLE 1968-76, 1980-85, 1987-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 7, 1989	10.26	APR. 5, 1990	5.30	JULY 17, 1990	7.59	SEP. 12, 1990	10.51
JAN. 5, 1990	9.69	APR. 25	5.20	SEP. 11, 1990	10.60		

SEE FOOTNOTES AT END OF TABLE.

BEAUREGARD PARISH

303644093020401 LOCAL WELL NUMBER: BE-430

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 24, T. 5S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 123 FT, SCREENED 118-123. MP TOP OF 2-IN. GALV. PIPE, 3.00 FT ABOVE LSD.

LSD 120 FT ABOVE NGVD.

HIGHEST WATER LEVEL 59.03 BELOW LSD, JULY 11, 1990.

LOWEST WATER LEVEL 61.40 BELOW LSD, MAR. 7, 1979.

RECORDS AVAILABLE 1974-79, 1981, 1983, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	59.43	JAN. 10, 1990	59.56	APR. 3, 1990	59.09	JULY 11, 1990	59.03

305018093251301 LOCAL WELL NUMBER: BE-443

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 3S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 164 FT, SCREENED 159-164. MP TOP OF 2-IN. GALV. PIPE, 2.40 FT ABOVE LSD.

LSD 206 FT ABOVE NGVD.

HIGHEST WATER LEVEL 34.16 BELOW LSD, JUNE 26, 1975.

LOWEST WATER LEVEL 37.47 BELOW LSD, NOV. 7, 1978.

RECORDS AVAILABLE 1974-79, 1981, 1983-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	35.06	JAN. 4, 1990	36.54	APR. 23, 1990	35.12	JULY 12, 1990	36.29

BIENVILLE PARISH

323505092535001 LOCAL WELL NUMBER: BI-144

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 18N., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 630 FT, SCREENED 620-630. MP TOP OF CASING, 2.85 FT ABOVE LSD.

LSD 320 FT ABOVE NGVD.

HIGHEST WATER LEVEL 198.27 BELOW LSD, SEP. 1, 1970.

LOWEST WATER LEVEL 236.87 BELOW LSD, OCT. 3, 1989.

RECORDS AVAILABLE 1970-73, 1975, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	236.87C	JAN. 4, 1990	230.07	APR. 20, 1989	229.92	JULY 9, 1990	231.32

322436092500501 LOCAL WELL NUMBER: BI-166

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 1, T. 16N., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 472 FT, SCREENED 462-472. MP TOP OF BUSHING, 0.20 FT ABOVE LSD.

LSD 260 FT ABOVE NGVD.

HIGHEST WATER LEVEL 155.21 BELOW LSD, APR. 28, 1975.

LOWEST WATER LEVEL 174.26 BELOW LSD, JULY 6, 1990.

RECORDS AVAILABLE 1975-82, 1984-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 30, 1990	173.76	JULY 6, 1990	174.26				

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

BOSSIER PARISH

323400093292201 LOCAL WELL NUMBER: BO-322

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 10, T. 18N., R. 11W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 66 FT, SCREENED 63-66. MP TOP OF CASING, 2.5 ABOVE LSD. PRIOR TO APR. 20, 1990, MP TOP OF CASING, AT LSD.
 LSD 200 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 6.49 BELOW LSD, DEC. 13, 1983.
 LOWEST WATER LEVEL 17.53 BELOW LSD, NOV. 2, 1988.
 RECORDS AVAILABLE 1973, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	14.85	JAN. 3, 1990	16.15	APR. 20, 1990	14.05	JULY 9, 1990	13.98

CALCASIEU PARISH

301115093191501 LOCAL WELL NUMBER: CU-445

OWNER: CITIES SERVICE OIL CO. (SEC. 18, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN., DEPTH 540 FT, SCREENED 460-540. MP TOP OF RECORDER SHELTER FLOOR, 2.00 FT ABOVE LSD.
 LSD 12.26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 30.96 BELOW LSD, APR. 20, 1947.
 LOWEST WATER LEVEL 177.75 BELOW LSD, AUG. 23, 1973.
 RECORDS AVAILABLE 1945-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	108.03H	JAN. 10, 1990	106.58	APR. 5, 1990	104.33	JULY 5, 1990	116.97
OCT. 5	107.15	JAN. 11	107.00H	APR. 6	103.30J	JULY 10	114.98H
OCT. 10	107.56	JAN. 15	106.32	APR. 10	105.19	JULY 15	113.66
OCT. 15	107.82	JAN. 20	107.87	APR. 15	106.40	JULY 20	114.84
OCT. 20	107.30	JAN. 25	105.81	APR. 20	106.13	JULY 25	115.59
OCT. 25	107.92	JAN. 30	105.93	APR. 25	106.50	JULY 31	115.94
OCT. 31	107.03H	FEB. 5	105.71	APR. 30	106.44	AUG. 5	116.10
NOV. 5	104.60	FEB. 10	105.67	MAY 5	106.27	AUG. 6	115.43H
NOV. 10	107.05	FEB. 15	105.95H	MAY 10	106.36	AUG. 10	116.19
NOV. 15	106.41	FEB. 20	104.41	MAY 15	106.71	AUG. 15	117.10
NOV. 20	105.81	FEB. 25	105.31	MAY 20	107.12	AUG. 20	117.08
NOV. 25	104.19	FEB. 28	104.40	MAY 25	107.31	AUG. 25	118.10
NOV. 30	105.53	MAR. 5	104.03	MAY 31	107.32	AUG. 31	117.42
DEC. 5	104.76	MAR. 10	104.78	JUNE 4	110.96H	SEP. 5	118.27
DEC. 6	104.70H	MAR. 15	104.49	JUNE 5	110.46	SEP. 6	120.10J
DEC. 10	104.63	MAR. 20	105.33	JUNE 10	110.68	SEP. 10	118.44
DEC. 15	105.97	MAR. 25	104.93	JUNE 15	111.81	SEP. 15	118.44
DEC. 20	108.70	MAR. 27	105.76H	JUNE 20	113.77	SEP. 20	117.44
DEC. 25	111.61	MAR. 31	105.16	JUNE 25	115.53	SEP. 25	117.12
DEC. 31	105.46	APR. 4	103.53H	JUNE 30	116.18	SEP. 30	117.62
JAN. 5, 1990	106.65						

301115093191001 LOCAL WELL NUMBER: CU-446

OWNER: CITIES SERVICE OIL CO. (SEC. 18, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN., REPORTED DEPTH 738 FT, SCREENED 658-738. MP TOP OF RECORDER SHELTER FLOOR, 1.89 FT ABOVE LSD.
 LSD 12.42 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 22.80 BELOW LSD, APR. 27, 1946.
 LOWEST WATER LEVEL 129.80 BELOW LSD, AUG. 5, 1974.
 RECORDS AVAILABLE 1945-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	87.87	JAN. 11, 1990	86.09	APR. 4, 1990	83.48	JULY 10, 1990	93.08

301036093124401 LOCAL WELL NUMBER: CU-767

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 20, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 850 FT, SCREENED 840-850. MP TOP OF 2-IN. CASING, 2.00 FT ABOVE LSD.
 LSD 11.42 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 63.26 BELOW LSD, MAR. 29, 1963.
 LOWEST WATER LEVEL 105.98 BELOW LSD, SEP. 30, 1974.
 RECORDS AVAILABLE 1963-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1989	73.33	MAR. 27, 1990	70.28	SEP. 6, 1990	79.96		

SEE FOOTNOTES AT END OF TABLE.

CALCASIEU PARISH--Continued

301336093183002 LOCAL WELL NUMBER: CU-771

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 241 FT, SCREENED 231-241. MP TOP OF 2-IN. CASING, 2.0 FT ABOVE LSD.

LSD 17.76 FT ABOVE NGVD.

HIGHEST WATER LEVEL 54.97 BELOW LSD, MAR. 28, 1963.

LOWEST WATER LEVEL 83.83 BELOW LSD, JULY 21, 1971.

RECORDS AVAILABLE 1963-79, 1981-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1989	59.60	MAR. 27, 1990	58.93	SEP. 6, 1990	61.97		

300353093210201 LOCAL WELL NUMBER: CU-787

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36, T. 11S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 734 FT, SCREENED 729-734. MP TOP OF 2-IN. CASING, 2.85 FT ABOVE LSD.

LSD 4.33 FT ABOVE NGVD.

HIGHEST WATER LEVEL 46.98 BELOW LSD, APR. 13, 1965.

LOWEST WATER LEVEL 78.58 BELOW LSD, AUG. 2, 1972.

RECORDS AVAILABLE 1964-79, 1981-83, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 21, 1989	53.98	MAR. 27, 1990	51.94	SEP. 5, 1990	58.13		

301148093193202 LOCAL WELL NUMBER: CU-843

OWNER: LOUISIANA DEPT. OF TRANSPORTATION AND DEVELOPMENT. (SEC. 18, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 205 FT, SCREENED 200-205. MP TOP OF CASING, 0.87 FT BELOW LSD.

LSD 12 FT ABOVE NGVD.

HIGHEST WATER LEVEL 51.46 BELOW LSD, MAR. 28, 1989.

LOWEST WATER LEVEL 73.05 BELOW LSD, SEP. 10, 1974.

RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	52.93	MAR. 27, 1990	52.03	APR. 4, 1990	52.04	JULY 10, 1990	53.29
JAN. 11, 1990	52.67						

CALDWELL PARISH

320555092043501 LOCAL WELL NUMBER: CA-130

OWNER: TOWN OF COLOMBIA. (SEC. 20, T. 13N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN COCKFIELD AQUIFER OF EOCENE AGE, DIAM 4 IN., DEPTH 260 FT, SCREENED 240-260. MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 90.00 FT ABOVE NGVD.

HIGHEST WATER LEVEL 17.97 BELOW LSD, JUNE 21, 1990.

LOWEST WATER LEVEL 26.47 BELOW LSD, JAN. 12, 1990.

RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 12, 1989	25.86	APR. 13, 1990	18.78	JUNE 21, 1990	17.97	JULY 20, 1990	22.83
JAN. 12, 1990	26.47						

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

CAMERON PARISH

295846092381104 LOCAL WELL NUMBER: CN-80U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 24, T. 12S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 453 FT, SCREENED 443-453. MP TOP OF 2-IN. CASING, 1.65 FT ABOVE LSD.

LSD 4.73 FT ABOVE NGVD.

HIGHEST WATER LEVEL 19.42 BELOW LSD, MAR. 22, 1965.

LOWEST WATER LEVEL 30.80 BELOW LSD, JUNE 20, 1978.

RECORDS AVAILABLE 1964-75, 1977-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 21, 1989	23.33	MAR. 28, 1990	22.60	SEP. 6, 1990	30.00		

300125092382504 LOCAL WELL NUMBER: CN-81L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 11, T. 12S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN., DEPTH 478 FT, SCREENED 468-478. MP TOP OF 1-IN. PIPE, 3.18 FT ABOVE LSD.

LSD 4.45 FT ABOVE NGVD.

HIGHEST WATER LEVEL 20.99 BELOW LSD, MAR. 22, 1965.

LOWEST WATER LEVEL 32.41 BELOW LSD, JULY 11, 1990.

RECORDS AVAILABLE 1964-83, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	27.67	JAN. 11, 1990	25.15	MAY 24, 1990	27.45	JULY 11, 1990	32.41

300120093320802 LOCAL WELL NUMBER: CN-86L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 13, T. 12S., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN., DEPTH 641 FT, SCREENED 631-641. MP TOP OF 1-IN. CASING, 2.10 FT ABOVE LSD.

LSD 3.66 FT ABOVE NGVD.

HIGHEST WATER LEVEL 32.16 BELOW LSD, APR. 12, 1965.

LOWEST WATER LEVEL 51.34 BELOW LSD, SEP. 19, 1971.

RECORDS AVAILABLE 1964-83, 1985, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 3, 1990	37.85	SEP. 5, 1990	42.02				

300055093093004 LOCAL WELL NUMBER: CN-88L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 14, T. 12S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 1/2 IN., DEPTH 804 FT, SCREENED 794-804. MP TOP OF 1 1/2-IN. PIPE, 2.62 FT ABOVE LSD.

LSD 8.86 FT ABOVE NGVD.

HIGHEST WATER LEVEL 40.27 BELOW LSD, APR. 13, 1965.

LOWEST WATER LEVEL 66.95 BELOW LSD, JULY 21, 1978.

RECORDS AVAILABLE 1964-79, 1981-83, 1985-86, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 21, 1989	46.64	NOV. 29, 1989	47.02	MAR. 28, 1990	44.78	SEP. 5, 1990	51.58

CATAHOULA PARISH

315007091410601 LOCAL WELL NUMBER: CT-347

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 42, T. 10N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 76 FT, SCREENED 73-76. MP TOP OF CASING, 3.50 FT ABOVE LSD.

LSD 70.00 FT ABOVE NGVD.

HIGHEST WATER LEVEL 25.40 BELOW LSD, APR. 25, 1990.

LOWEST WATER LEVEL 26.52 BELOW LSD, JULY 9, 1990.

RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 27, 1989	25.80	FEB. 28, 1990	25.97	APR. 25, 1990	25.40	JULY 9, 1990	26.52
JAN. 8, 1990	26.25						

SEE FOOTNOTES AT END OF TABLE.

CLAIBORNE PARISH

330002092445901 LOCAL WELL NUMBER: CL-149

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 11, T. 23N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 736 FT, SCREENED 726-736. MP TOP OF BUSHING, 3.50 FT ABOVE LSD.
 LSD 230 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 264.01 BELOW LSD, FEB. 21, 1980.
 LOWEST WATER LEVEL 280.20 BELOW LSD, JAN. 3, 1990.
 RECORDS AVAILABLE 1978-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	278.90	JAN. 3, 1990	280.20	APR. 18, 1990	278.67	JULY 9, 1990	279.87

CONCORDIA PARISH

312614091400001 LOCAL WELL NUMBER: CO-205

OWNER: ANGELINA PLANTATION. (SEC. 4, T. 5N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 130 FT, SCREENED 110-130. MP TOP OF CASING, 1.10 FT ABOVE LSD.
 LSD 45.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 9.15 BELOW LSD, MAR. 14, 1990.
 LOWEST WATER LEVEL 15.99 BELOW LSD, SEP. 26, 1990.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 5, 1990	12.68	MAR. 14, 1990	9.05	SEP. 26, 1990	15.99		

312630091390001 LOCAL WELL NUMBER: CO-215

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 3, T. 5N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 121 FT, SCREENED 118-121. MP TOP OF CASING, 3.4 FT ABOVE LSD.
 LSD 45.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 6.48 BELOW LSD, MAR. 14, 1990.
 LOWEST WATER LEVEL 14.25 BELOW LSD, SEP. 26, 1990.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 21, 1989	12.65	MAR. 14, 1990	6.48	APR. 25, 1990	7.69	SEP. 26, 1990	14.25
JAN. 5, 1990	12.07						

DE SOTO PARISH

315521093343801 LOCAL WELL NUMBER: DS-445

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 22, T. 11N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF EOCENE-PALEOCENE AGE, DIAM 2 IN., DEPTH 140 FT, SCREENED 130-140. MP TOP OF CASING, 3.60 FT ABOVE LSD.
 LSD 305 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 78.13 BELOW LSD, MAY 15, 1978.
 LOWEST WATER LEVEL 84.18 BELOW LSD, DEC. 10, 1985.
 RECORDS AVAILABLE 1977-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	79.77	JAN. 3, 1990	79.48	APR. 23, 1990	78.73	JULY 11, 1990	79.06

320153093583601 LOCAL WELL NUMBER: DS-517

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 14, T. 12N., R. 16W.) BORED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF EOCENE-PALEOCENE AGE, DIAM 2 IN., DEPTH 131 FT, SCREENED 129-131. MP TOP OF BUSHING, AT LSD.
 LSD 225 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 14.28 BELOW LSD, APR. 23, 1990.
 LOWEST WATER LEVEL 17.64 BELOW LSD, SEP. 24, 1984.
 RECORDS AVAILABLE 1982-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	15.19	JAN. 3, 1990	14.90	APR. 23, 1990	14.28	JULY 25, 1990	14.77

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS
EAST BATON ROUGE PARISH

302745091092401 LOCAL WELL NUMBER: EB-90

OWNER: BATON ROUGE WATER COMPANY. (SEC. 77, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 8 TO 6 TO 4 IN., REPORTED DEPTH 2,120 FT. SCREENED 2,025-2,120. MP TOP OF COLLAR, 1.90 FT ABOVE LSD.
LSD 59.05 FT ABOVE NGVD.
HIGHEST WATER LEVEL 12.70 ABOVE LSD, FEB. 23, 1943.
LOWEST WATER LEVEL 292.54 BELOW LSD, AUG. 31, 1973.
RECORDS AVAILABLE 1943-45, 1947-55, 1958-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 21, 1990	219.01	APR. 17, 1990	223.55	MAY 8, 1990	233.63	JULY 10, 1990	236.84

302648091102301 LOCAL WELL NUMBER: EB-128

OWNER: DIVINCENTI BROS., INC. (SEC. 74, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("800-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 6 TO 4 IN., DEPTH 970 FT. SCREENED 840-883 AND 916-970. MP TOP OF 6-IN. CASING, AT LSD.
LSD 57.02 FT ABOVE NGVD.
HIGHEST WATER LEVEL 60.40 BELOW LSD, JULY 12, 1989.
LOWEST WATER LEVEL 128.42 BELOW LSD, SEP. 9, 1956.
RECORDS AVAILABLE 1940-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	65.80	APR. 17, 1990	63.16	JUNE 15, 1990	61.08	JULY 10, 1990	60.83
FEB. 21, 1990	65.28						

302653091095701 LOCAL WELL NUMBER: EB-146

OWNER: EAST BATON ROUGE CITY-PARISH. (SEC. 73, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 6 TO 4 IN., REPORTED DEPTH 1,259 FT. SCREENED 1,199-1,259. MP EDGE OF 1/4-IN. HOLE IN PLATE ATOP CASING, 0.45 FT BELOW LSD.
LSD 52 FT ABOVE NGVD.
HIGHEST WATER LEVEL 33.00 ABOVE LSD, MAR. 25, 1916.
LOWEST WATER LEVEL 118.15 BELOW LSD, JULY 12, 1979.
RECORDS AVAILABLE 1916, 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	101.43	APR. 17, 1990	101.42	MAY 16, 1990	100.78	JULY 10, 1990	104.89
FEB. 21, 1990	103.07						

302930091101501 LOCAL WELL NUMBER: EB-155

OWNER: EXXON CO., U.S.A. (SEC. 43, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 18 TO 12 IN., REPORTED DEPTH 412 FT. SCREENED 311-412. MP TOP OF CASING COVER, 0.85 FT ABOVE LSD.
LSD 60.14 FT ABOVE NGVD.
HIGHEST WATER LEVEL 57.81 BELOW LSD, MAR. 25, 1990.
LOWEST WATER LEVEL 185.30 BELOW LSD, OCT. 15, 1968.
RECORDS AVAILABLE 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1989	64.52	JAN. 5, 1990	63.71	APR. 10, 1990	65.73	JUNE 30, 1990	59.23
OCT. 10	63.67	JAN. 10	69.17	APR. 15	64.65	JULY 5	59.05
OCT. 15	63.47	JAN. 15	68.87	APR. 16	63.21H	JULY 10	58.23
OCT. 20	64.07	JAN. 20	68.87	APR. 20	61.30	JULY 15	57.98
OCT. 25	63.72	JAN. 25	68.91	APR. 25	59.84	JULY 20	58.14
OCT. 31	63.32	JAN. 30	65.28	APR. 30	65.69	JULY 25	60.75
NOV. 5	63.02	FEB. 5	63.81	MAY 5	64.66	JULY 31	61.77
NOV. 8	62.93H	FEB. 10	62.40	MAY 9	64.51H	AUG. 5	62.62
NOV. 10	63.04	FEB. 15	61.30H	MAY 10	64.50	AUG. 10	65.90H
NOV. 15	62.82	FEB. 20	60.46	MAY 15	64.10	AUG. 15	66.52
NOV. 20	63.00	FEB. 25	59.78	MAY 20	61.33	AUG. 20	65.29
NOV. 25	62.86	FEB. 28	59.21	MAY 25	62.29	AUG. 25	63.55
NOV. 30	62.68	MAR. 5	58.74	MAY 31	61.45	AUG. 31	62.86
DEC. 5	62.51	MAR. 10	58.60	JUNE 1	60.22H	SEP. 5	63.95
DEC. 10	62.46	MAR. 15	59.27	JUNE 5	63.35	SEP. 10	63.05
DEC. 15	63.86	MAR. 20	57.82	JUNE 10	60.18	SEP. 15	65.43
DEC. 20	63.52	MAR. 25	57.81J	JUNE 15	59.01	SEP. 20	65.27
DEC. 25	70.21	MAR. 31	62.42	JUNE 20	57.82	SEP. 25	64.49
DEC. 26	71.72J	APR. 5	64.36	JUNE 25	61.45	SEP. 30	63.88
DEC. 31	62.41						

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

303001091093801 LOCAL WELL NUMBER: EB-168

OWNER: BATON ROUGE WATER COMPANY. (SEC. 38, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 8 TO 6 IN., REPORTED DEPTH 1,496 FT, SCREENED 1,416-1,496. MP TOP EDGE OF 1 1/2-IN. COLLAR ON PLATE ATOP CASING, 1.95 FT ABOVE LSD. LSD 56 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 14.00 ABOVE LSD, MAR. 1, 1943.
 LOWEST WATER LEVEL 147.27 BELOW LSD, MAY 14, 1979.
 RECORDS AVAILABLE 1943, 1948, 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	140.24	SEP. 28, 1990	147.24				

303026091113001 LOCAL WELL NUMBER: EB-297

OWNER: LOUISIANA OFFICE OF HIGHWAYS. (SEC. 37, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., DEPTH 1,940 FT, SCREENED 1,890-1,940. MP TOP OF 4-IN. NIPPLE ATOP 4-IN. CROSS, 2.20 FT ABOVE LSD. LSD 61 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 200.22 BELOW LSD, NOV. 7, 1967.
 LOWEST WATER LEVEL 336.23 BELOW LSD, AUG. 31, 1973.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	257.09	APR. 16, 1990	256.05	MAY 9, 1990	263.17	JULY 19, 1990	261.94
FEB. 15, 1990	244.46						

302638091090801 LOCAL WELL NUMBER: EB-298

OWNER: DR. JOSEPH GERALD. (SEC. 81, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN., DEPTH 1,387 FT, SCREENED 1,347-1,387. MP TOP OF 1-IN. CASING, 1.50 FT ABOVE LSD. LSD 48.33 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 37.70 ABOVE LSD, JULY 11, 1918.
 LOWEST WATER LEVEL 121.27 BELOW LSD, NOV. 21, 1978.
 RECORDS AVAILABLE 1918, 1958-1968, 1970, 1972, 1974, 1976, 1978, 1981, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 18, 1989	103.94	SEP. 25, 1990	111.01				

303440090592702 LOCAL WELL NUMBER: EB-304

OWNER: GREENWELL SPRINGS HOSPITAL. (SEC. 49, T. 5S., R. 2E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 IN., DEPTH 1,725 FT, SCREENED 1,685-1,725. MP TOP OF 2-IN. COUPLING WELDED ON TOP OF CASING, 2.40 FT ABOVE LSD. LSD 67 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 81.00 ABOVE LSD, DEC. 19, 1941.
 LOWEST WATER LEVEL 64.85 BELOW LSD, NOV. 6, 1979.
 RECORDS AVAILABLE 1941, 1943-46, 1949-51, 1954-70, 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	55.84	APR. 16, 1990	54.17	MAY 9, 1990	54.53	JULY 9, 1990	56.67
FEB. 14, 1990	55.05						

303441091074201 LOCAL WELL NUMBER: EB-322

OWNER: JOSEPH ROY BADEAUX. (SEC. 29, T. 5S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 TO 2 IN., DEPTH 1,971 FT, SCREENED 1,931-1,971. MP TOP EDGE OF 2 1/2-IN. CASING, 0.25 FT ABOVE LSD. LSD 68 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 67.00 ABOVE LSD, DEC. 6, 1942.
 LOWEST WATER LEVEL 80.34 BELOW LSD, OCT. 31, 1980.
 RECORDS AVAILABLE 1942-51, 1959, 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	72.39	APR. 16, 1990	70.99	MAY 30, 1990	71.60	JULY 9, 1990	72.88
FEB. 15, 1990	71.72						

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302930091111301 LOCAL WELL NUMBER: EB-367

OWNER: GULF STATES UTILITIES CO. (SEC. 43, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 TO 8 IN., REPORTED DEPTH 2.061 FT, SCREENED 1,961-2.061. MP ARROW ON PLATE ABOVE CASING, 0.40 FT ABOVE LSD.
 LSD 64.4 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 5.00 BELOW LSD, JUNE 16, 1942.
 LOWEST WATER LEVEL 372.20 BELOW LSD, AUG. 17, 1973.
 RECORDS AVAILABLE 1942, 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1989	287.47	JAN. 10, 1990	262.26	APR. 10, 1990	280.32	JUNE 30, 1990	297.37
OCT. 10	289.28	JAN. 12	261.36J	APR. 15	280.31	JULY 5	298.94
OCT. 15	292.21	JAN. 15	261.94	APR. 16	286.29H	JULY 10	298.32
OCT. 20	290.63	JAN. 20	265.02	APR. 20	289.22	JULY 15	300.21
OCT. 25	292.08	JAN. 25	264.44	APR. 25	290.18	JULY 20	298.88
OCT. 31	292.67	JAN. 30	263.84	APR. 30	285.81	JULY 25	299.05
NOV. 5	290.81	FEB. 5	270.69	MAY 5	295.99	JULY 31	299.74
NOV. 8	289.26H	FEB. 10	271.78	MAY 6	292.75H	AUG. 5	298.64
NOV. 10	289.77	FEB. 15	274.25H	MAY 9	297.24H	AUG. 10	301.62
NOV. 15	287.59	FEB. 20	277.14	MAY 10	298.03	AUG. 15	305.59
NOV. 20	288.22	FEB. 25	280.00	MAY 15	292.23	AUG. 20	303.89
NOV. 25	290.07	FEB. 28	279.93	MAY 20	295.36	AUG. 25	302.87
NOV. 30	287.69	MAY 5	282.19	MAY 31	296.94	AUG. 31	304.59
DEC. 5	290.00	MAR. 10	284.08	JUNE 1	296.16H	SEP. 5	304.96
DEC. 10	296.06	MAR. 15	283.95	JUNE 5	291.84	SEP. 10	306.00J
DEC. 15	294.71	MAR. 20	285.23	JUNE 10	294.68	SEP. 15	304.25
DEC. 20	295.61	MAR. 25	285.49	JUNE 15	294.47	SEP. 20	305.80
DEC. 25	294.89	MAR. 31	284.32	JUNE 20	294.18	SEP. 25	302.45
DEC. 31	276.41	APR. 5	281.91	JUNE 25	297.97	SEP. 30	300.99
JAN. 5, 1990	263.13						

302619091104003 LOCAL WELL NUMBER: EB-434

OWNER: LOUISIANA OFFICE OF HIGHWAYS. (SEC. 49, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 8 TO 6 IN., REPORTED DEPTH 611 FT, SCREENED 551-611. MP TOP OF 2-IN. NIPPLE, 1.58 FT ABOVE LSD.
 LSD 45.44 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 43.24 BELOW LSD, MAY 10, 1990.
 LOWEST WATER LEVEL 125.57 BELOW LSD, OCT. 22, 1968.
 RECORDS AVAILABLE 1961-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1989	48.63	MAY 10, 1990	43.24	SEP. 20, 1990	51.79		

303408091075001 LOCAL WELL NUMBER: EB-468

OWNER: A.M. HOLDEN. (SEC. 53, T. 5S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., DEPTH 2,407 FT, SCREENED 2,319-2,407. MP TOP EDGE OF 3/4-IN. HOLE IN SANITARY SEAL, 0.43 FT ABOVE LSD.
 LSD 73 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 71.60 ABOVE LSD, FEB. 27, 1948.
 LOWEST WATER LEVEL 67.00 BELOW LSD, OCT. 31, 1980.
 RECORDS AVAILABLE 1948-51, 1953-67, 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	62.31	FEB. 15, 1990	63.09	APR. 16, 1990	63.30	JULY 9, 1990	66.45

303440090592703 LOCAL WELL NUMBER: EB-581

OWNER: GREENWELL SPRINGS HOSPITAL. (SEC. 49, T. 5S., R. 2E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 8 TO 6 IN., DEPTH 2,590 FT, SCREENED 2,540-2,590. MP TOP OF 1-IN. PIPE ON SIDE OF 8-IN. CASING, 1.90 FT ABOVE LSD.
 LSD 67 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 54.40 ABOVE LSD, MAY 25, 1956.
 LOWEST WATER LEVEL 45.79 BELOW LSD, JAN. 27, 1981.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	40.10	APR. 16, 1990	40.87	MAY 9, 1990	41.38	JULY 9, 1990	41.92
FEB. 14, 1990	40.95						

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

303154091083901 LOCAL WELL NUMBER: EB-652

OWNER: GREATER BATON ROUGE AIRPORT DISTRICT. (SEC. 90, T. 6S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1.345 FT, SCREENED 1.264-1.345. MP TOP OF 4-IN PIPE, 1.18 FT ABOVE LSD.
 LSD 68 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 45.42 BELOW LSD, APR. 29, 1958.
 LOWEST WATER LEVEL 140.48 BELOW LSD, SEP. 28, 1990.
 RECORDS AVAILABLE 1958-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 6, 1989	135.20	APR. 16, 1990	130.56	JULY 9, 1990	139.26	SEP. 28, 1990	140.48
FEB. 15, 1990	133.98	MAY 9	133.06				

303350091100901 LOCAL WELL NUMBER: EB-685

OWNER: BATON ROUGE RECREATION AND PARK COMMISSION. (SEC. 53, T. 5S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 TO 3 IN., DEPTH 1.640 FT, SCREENED 1.580-1.640. MP HOLE IN CENTER OF 6-IN. PLUG ATOP CASING, 1.73 FT ABOVE LSD.
 LSD 65 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 48.95 BELOW LSD, APR. 30, 1959.
 LOWEST WATER LEVEL 184.37 BELOW LSD, NOV. 15, 1972.
 RECORDS AVAILABLE 1959-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	141.35	APR. 16, 1990	151.22	MAY 9, 1990	153.76	JULY 9, 1990	158.63
FEB. 15, 1990	147.28						

302509091082701 LOCAL WELL NUMBER: EB-778

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2.586 FT, SCREENED 2.581-2.586. MP TOP OF CASING, 0.25 FT BELOW LSD.
 LSD 28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.10 ABOVE LSD, MAR. 16, 1965.
 LOWEST WATER LEVEL 2.51 BELOW LSD, OCT. 25, 1982.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 17, 1990	+1.99	MAY 19, 1990	+2.02	JULY 10, 1990	+1.00	SEP. 14, 1990	0.84

302509091082702 LOCAL WELL NUMBER: EB-780A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1.622 FT, SCREENED 1.617-1.622. MP TOP OF 4-IN. CASING, 0.14 FT ABOVE LSD.
 LSD 28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 2.26 ABOVE LSD, JAN. 12, 1966.
 LOWEST WATER LEVEL 33.74 BELOW LSD, SEP. 17, 1990.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 8, 1989	30.82	MAY 16, 1990	31.26	SEP. 17, 1990	33.74		

302509091082703 LOCAL WELL NUMBER: EB-780B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1.913 FT, SCREENED 1.908-1.913. MP TOP OF 4-IN. CASING, 0.14 FT ABOVE LSD.
 LSD 28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 8.58 ABOVE LSD, APR. 23, 1965.
 LOWEST WATER LEVEL 27.40 BELOW LSD, SEP. 14, 1990.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 11, 1989	25.32	MAY 16, 1990	25.08	SEP. 14, 1990	27.40		

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302535091090401 LOCAL WELL NUMBER: EB-781

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,286 FT, SCREENED 2,282-2,286. MP TOP EDGE OF 2-IN. STEEL AIR LINE, 2.82 FT ABOVE LSD.
 LSD 28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 119.12 BELOW LSD, MAR. 15, 1966.
 LOWEST WATER LEVEL 241.60 BELOW LSD, AUG. 14, 1973.
 RECORDS AVAILABLE 1965-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 12, 1990	192.88	JULY 18, 1990	198.23				

302535091090402 LOCAL WELL NUMBER: EB-782A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,000-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,189 FT, SCREENED 1,184-1,189. MP TOP EDGE OF 3/8-IN. HOLE IN CAP, 2.00 FT ABOVE LSD.
 LSD 28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 18.54 BELOW LSD, MAY 19, 1975.
 LOWEST WATER LEVEL 26.75 BELOW LSD, OCT. 22, 1981.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	21.60	FEB. 21, 1990	23.18	MAY 9, 1990	22.22	JULY 10, 1990	21.55
DEC. 11	22.00	APR. 17	22.45				

302502091113601 LOCAL WELL NUMBER: EB-783A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 54, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 2,179 FT, SCREENED 2,174-2,179. MP TOP EDGE OF 1/2-IN. HOLE IN SANITARY SEAL, 2.02 FT ABOVE LSD.
 LSD 26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 16.20 ABOVE LSD, MAR. 1, 1966.
 LOWEST WATER LEVEL 62.58 BELOW LSD, OCT. 18, 1984.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 13, 1989	54.25	DEC. 14, 1989	54.48	MAY 16, 1990	52.96		

302502091113602 LOCAL WELL NUMBER: EB-783B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 54, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN., DEPTH 2,675 FT, SCREENED 2,670-2,675. MP CENTER LINE OF FAUCET IN TOP OF 2-IN. CASING, 2.95 FT ABOVE LSD.
 LSD 26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 54.90 ABOVE LSD, MAR. 1, 1966.
 LOWEST WATER LEVEL 40.45 BELOW LSD, JULY 22, 1977.
 RECORDS AVAILABLE 1965-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 11, 1990	+14.65	MAY 16, 1990	+15.51	SEP. 14, 1990	+11.85		

302511091070401 LOCAL WELL NUMBER: EB-789A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 93, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 711 FT, SCREENED 707-711. MP HOLE IN SANITARY SEAL, 0.61 FT ABOVE LSD.
 LSD 37 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 9.50 BELOW LSD, MAY 17, 1979.
 LOWEST WATER LEVEL 33.40 BELOW LSD, OCT. 12, 1988.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	27.96	FEB. 16, 1990	18.76	MAY 31, 1990	14.28	JULY 10, 1990	13.95
DEC. 6	27.17	APR. 17	14.28				

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302511091070402 LOCAL WELL NUMBER: EB-789B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 93, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,721 FT, SCREENED 1,717-1,721. MP TOP OF 2-IN. CASING, 0.88 FT ABOVE LSD.
 LSD 37 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 6.15 BELOW LSD, MAR. 4, 1966.
 LOWEST WATER LEVEL 42.48 BELOW LSD, SEP. 25, 1990.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 6, 1989	39.10	DEC. 11, 1989	39.38	SEP. 25, 1990	42.48		

302605091080602 LOCAL WELL NUMBER: EB-792B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 95, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,286 FT, SCREENED 2,282-2,286. MP TOP OF 2-IN. CASING, 1.81 ABOVE LSD.
 LSD 45 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 121.92 BELOW LSD, MAR. 28, 1966.
 LOWEST WATER LEVEL 239.60 BELOW LSD, JULY 27, 1973.
 RECORDS AVAILABLE 1965-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 10, 1990	195.04	SEP. 17, 1990	205.82				

302719091103201 LOCAL WELL NUMBER: EB-793

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 71, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 687 FT, SCREENED 683-687. MP TOP EDGE OF 2-IN. LINER, 2.00 FT ABOVE LSD.
 LSD 35.3 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 36.56 BELOW LSD, JULY 23, 1990.
 LOWEST WATER LEVEL 121.55 BELOW LSD, OCT. 21, 1968.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 18, 1989	40.40	FEB. 23, 1990	37.57	JULY 23, 1990	36.56	AUG. 29, 1990	42.80

302559091110801 LOCAL WELL NUMBER: EB-794

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 52, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,709 FT, SCREENED 2,705-2,709. MP TOP OF 4-IN. CASING, 2.87 FT ABOVE LSD.
 LSD 50.18 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 113.28 BELOW LSD, JULY 27, 1965.
 LOWEST WATER LEVEL 204.76 BELOW LSD, JULY 13, 1979.
 RECORDS AVAILABLE 1965-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 11, 1990	162.27	SEP. 20, 1990	176.52				

302306091022602 LOCAL WELL NUMBER: EB-803B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 8S., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,565 FT, SCREENED 2,561-2,565. MP CENTER LINE OF FAUCET IN TOP OF 2-IN. CASING, 3.50 FT ABOVE LSD.
 LSD 27 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 53.10 ABOVE LSD, APR. 4, 1966.
 LOWEST WATER LEVEL 11.60 ABOVE LSD, MAY 7, 1982.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 5, 1989	+16.50	MAY 9, 1990	+19.80	SEP. 19, 1990	+17.70		

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302428091035001 LOCAL WELL NUMBER: EB-804A

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,950 FT, SCREENED 1,946-1,950. MP TOP OF 4-IN. CASING, 1.57 FT ABOVE LSD.
 LSD 46 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 44.34 BELOW LSD, JUNE 9, 1967,
 LOWEST WATER LEVEL 104.45 BELOW LSD, SEP. 24, 1990.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	97.47	DEC. 6, 1989	98.48	APR. 17, 1990	99.86	JULY 10, 1990	101.69
DEC. 5	98.55	FEB. 16, 1990	100.78	JUNE 4	101.22	SEP. 24	104.45

302428091035002 LOCAL WELL NUMBER: EB-804B

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,762 FT, SCREENED 2,758-2,762. MP TOP OF 2-IN. LINER, 2.37 FT ABOVE LSD.
 LSD 46 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 32.45 BELOW LSD, MAY 6, 1966, MAY 18, 1966,
 LOWEST WATER LEVEL 103.10 BELOW LSD, NOV. 10, 1980.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	90.26	FEB. 16, 1990	82.91	MAY 9, 1990	83.67	JULY 10, 1990	93.49
DEC. 5	87.34	APR. 17	81.96	JUNE 4	86.60	SEP. 24	100.35
DEC. 6	87.08						

302428091035003 LOCAL WELL NUMBER: EB-805

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,000-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,072 FT, SCREENED 1,068-1,072. MP TOP OF 1/2-IN. HOLE IN CAP, 1.25 FT ABOVE LSD.
 LSD 46 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.04 BELOW LSD, JUNE 9, 1967,
 LOWEST WATER LEVEL 65.86 BELOW LSD, OCT. 19, 1987.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	63.65	APR. 17, 1990	61.84	JULY 10, 1990	61.54	SEP. 24, 1990	62.85
FEB. 16, 1990	62.30	JUNE 4, 1990	61.07				

302702091103902 LOCAL WELL NUMBER: EB-806B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 72, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,579 FT, SCREENED 2,575-2,579. MP TOP EDGE OF 1 1/2-IN. NIPPLE, 1.83 FT ABOVE LSD.
 LSD 46.5 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 119.03 BELOW LSD, MAY 19, 1966,
 LOWEST WATER LEVEL 204.05 BELOW LSD, JULY 12, 1979.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	170.81	APR. 17, 1990	159.91	MAY 9, 1990	168.14	JULY 10, 1990	177.60
FEB. 21, 1990	157.32						

302611091091202 LOCAL WELL NUMBER: EB-807B

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 96, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,264 FT, SCREENED 2,260-2,264. MP TOP OF 3/8-IN. HOLE IN CAP, 2.50 FT ABOVE LSD.
 LSD 34.86 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 132.14 BELOW LSD, MAY 19, 1966,
 LOWEST WATER LEVEL 249.90 BELOW LSD, JULY 27, 1973.
 RECORDS AVAILABLE 1966-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 26, 1990	210.39						

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302510091105003 LOCAL WELL NUMBER: EB-822

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 54, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 573 FT, SCREENED 567-573. MP TOP OF COLLAR WELDED ON CASING, 0.58 FT ABOVE LSD.
 LSD 22.6 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 12.30 ABOVE LSD, APR. 27, 1979,
 LOWEST WATER LEVEL 19.48 BELOW LSD, OCT. 23, 1968.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 12, 1989	11.67	JUNE 1, 1990	+6.95	SEP. 25, 1990	13.86		

302553091092001 LOCAL WELL NUMBER: EB-824

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 96, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 581 FT, SCREENED 575-581. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 33.56 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 28.84 BELOW LSD, JULY 10, 1990,
 LOWEST WATER LEVEL 90.29 BELOW LSD, OCT. 23, 1968.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	35.49	FEB. 21, 1990	32.39	MAY 9, 1990	30.41	SEP. 25, 1990	37.55
DEC. 12	35.21	APR. 17	31.08	JULY 10	28.84		

302553091092002 LOCAL WELL NUMBER: EB-825

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 96, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 475 FT, SCREENED 469-475. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 33.57 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 29.21 BELOW LSD, MAY 9, 1990,
 LOWEST WATER LEVEL 63.45 BELOW LSD, NOV. 8, 1968.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 12, 1989	33.14	MAY 9, 1990	29.21	SEP. 25, 1990	32.94		

303356091095301 LOCAL WELL NUMBER: EB-827

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 54, T. 5S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 370 FT, SCREENED 364-370. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 63.96 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 37.50 BELOW LSD, MAY 15, 1990,
 LOWEST WATER LEVEL 68.13 BELOW LSD, NOV. 1, 1968.
 RECORDS AVAILABLE 1967-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 15, 1990	37.50	SEP. 28, 1990	46.17				

303912091150801 LOCAL WELL NUMBER: EB-849

OWNER: GEORGIA-PACIFIC CORP. (SEC. 31, T. 4S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 IN., DEPTH 1,380 FT, SCREENED 1,250-1,270 AND 1,350-1,380. MP TOP OF CASING, 1.70 FT ABOVE LSD.
 LSD 91 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 47.79 BELOW LSD, FEB. 22, 1966,
 LOWEST WATER LEVEL 139.14 BELOW LSD, OCT. 29, 1980.
 RECORDS AVAILABLE 1966, 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	137.19	APR. 16, 1990	129.13	MAY 30, 1990	135.19	JULY 9, 1990	138.42
FEB. 15, 1990	135.72						

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302729091100601 LOCAL WELL NUMBER: EB-870

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 44, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 692 FT, SCREENED 687-692. MP TOP OF CASING, AT LSD.
 LSD 50 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 48.33 BELOW LSD, JULY 10, 1990.
 LOWEST WATER LEVEL 142.48 BELOW LSD, OCT. 5, 1971.
 RECORDS AVAILABLE 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 18, 1989	54.44	APR. 17, 1990	51.95	JULY 10, 1990	48.33	SEP. 25, 1990	58.81
FEB. 21, 1990	52.20	MAY 16	51.03				

303905090583301 LOCAL WELL NUMBER: EB-896

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 51, T. 4S., R. 2E.) BORED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 73 FT, SCREENED 70-73. MP TOP OF 1 1/4-IN. CASING, AT LSD.
 LSD 82 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 14.51 BELOW LSD, APR. 16, 1990.
 LOWEST WATER LEVEL 18.31 BELOW LSD, OCT. 4, 1982.
 RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	15.80	FEB. 14, 1990	14.62	APR. 16, 1990	14.51	JULY 9, 1990	15.42

302614091083001 LOCAL WELL NUMBER: EB-917

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 95, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,736 FT, SCREENED 1,731-1,736. MP TOP OF 4-IN. CASING, AT LSD.
 LSD 46.56 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 116.98 BELOW LSD, APR. 10, 1978.
 LOWEST WATER LEVEL 144.69 BELOW LSD, SEP. 18, 1990.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	137.21	DEC. 19, 1989	137.61	APR. 17, 1990	139.17	JULY 10, 1990	143.19
DEC. 12	130.76	FEB. 21, 1990	138.44	MAY 10	138.76	SEP. 18	144.69

302547091074401 LOCAL WELL NUMBER: EB-918

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 91, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,834 FT, SCREENED 1,829-1,834. MP TOP EDGE OF 4-IN. COLLAR, AT LSD.
 LSD 40 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 103.15 BELOW LSD, DEC. 12, 1973.
 LOWEST WATER LEVEL 133.36 BELOW LSD, SEP. 19, 1990.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 7, 1989	124.91	SEP. 19, 1990	133.36				

302955091060601 LOCAL WELL NUMBER: EB-933

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 50, T. 6S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 603 FT, SCREENED 592-603. MP TOP OF 2-IN. CASING, 1.30 FT ABOVE LSD.
 LSD 51 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 44.82 BELOW LSD, JULY 9, 1990.
 LOWEST WATER LEVEL 67.84 BELOW LSD, NOV. 18, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	47.91	APR. 16, 1990	45.99	MAY 10, 1990	45.65	JULY 9, 1990	44.82
FEB. 14, 1990	47.15						

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302955091060501 LOCAL WELL NUMBER: EB-934

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 50, T. 6S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 385 FT, SCREENED 372-385. MP TOP OF 2-IN. CASING, 1.10 FT ABOVE LSD.
 LSD 51 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 38.45 BELOW LSD, JULY 9, 1990.
 LOWEST WATER LEVEL 55.98 BELOW LSD, NOV. 18, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	41.15	APR. 16, 1990	38.83	MAY 10, 1990	38.86	JULY 9, 1990	38.45
FEB. 14, 1990	40.62						

302932091101901 LOCAL WELL NUMBER: EB-944

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., DEPTH 2,792 FT, SCREENED 2,782-2,792. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN. TEE ON LINER, 1.63 FT ABOVE LSD.
 LSD 59 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 33.53 BELOW LSD, FEB. 4, 1975.
 LOWEST WATER LEVEL 52.25 BELOW LSD, FEB. 22, 1980.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1989	42.57	APR. 16, 1990	43.66	MAY 9, 1990	43.98	JULY 9, 1990	44.55
FEB. 15, 1990	42.75						

302932091101902 LOCAL WELL NUMBER: EB-945

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 654 FT, SCREENED 644-654. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN. TEE ON LINER, 2.27 FT ABOVE LSD.
 LSD 59 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 59.09 BELOW LSD, JULY 9, 1990.
 LOWEST WATER LEVEL 158.05 BELOW LSD, AUG. 26, 1976.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1989	65.13	APR. 16, 1990	62.97	MAY 9, 1990	62.19	JULY 9, 1990	59.09
FEB. 15, 1990	63.01						

302932091101903 LOCAL WELL NUMBER: EB-946

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 1,234 FT, SCREENED 1,224-1,234. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN. TEE ON LINER, 2.02 FT ABOVE LSD.
 LSD 59 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 117.36 BELOW LSD, DEC. 1, 1988.
 LOWEST WATER LEVEL 193.08 BELOW LSD, OCT. 2, 1978.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1989	134.24	APR. 16, 1990	135.42	MAY 9, 1990	130.15	JULY 9, 1990	142.29
FEB. 15, 1990	140.80						

303251091115001 LOCAL WELL NUMBER: EB-1000

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 69, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN., DEPTH 2,926 FT, SCREENED 2,916-2,926. MP TOP OF CASING, 3.00 FT ABOVE LSD.
 LSD 68 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 44.15 BELOW LSD, APR. 22, 1985.
 LOWEST WATER LEVEL 57.53 BELOW LSD, FEB. 26, 1980.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	53.85	APR. 15, 1990	54.89	JULY 9, 1990	55.80	AUG. 29, 1990	56.27
FEB. 15, 1990	53.59	MAY 17	54.39				

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302919091020501 LOCAL WELL NUMBER: EB-1019

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 52, T. 6S., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 700 FT, SCREENED 690-700. MP TOP OF 2-IN. CASING, AT LSD.
 LSD 49 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 38.70 BELOW LSD, APR. 12, 1983.
 LOWEST WATER LEVEL 46.54 BELOW LSD, OCT. 31, 1986.
 RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	43.32	APR. 16, 1990	42.17	MAY 9, 1990	42.02	JULY 9, 1990	41.69
FEB. 14, 1990	42.62						

302605091100901 LOCAL WELL NUMBER: EB-1028

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 53, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN., DEPTH 2,238 FT, SCREENED 2,223-2,238. MP TOP EDGE OF 1-IN. AIR-LINE COLLAR, 0.30 FT BELOW LSD.
 LSD 40 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 175.10 BELOW LSD, APR. 27, 1987.
 LOWEST WATER LEVEL 245.19 BELOW LSD, JULY 23, 1981.
 RECORDS AVAILABLE 1981-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 18, 1990	213.16						

EAST CARROLL PARISH

324040091110801 LOCAL WELL NUMBER: EC-55

OWNER: ELTON FORTENBERRY. (SEC. 38, T. 20N., R. 12E.) DRILLED IRRIGATION SEMI-ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN., DEPTH 114 FT, SCREENED 74-114. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 97 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 0.26 BELOW LSD, MAY 16, 1973.
 LOWEST WATER LEVEL 29.63 BELOW LSD, JUNE 22, 1964.
 RECORDS AVAILABLE 1955, 1961-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	16.12	JAN. 9, 1990	20.53	APR. 24, 1990	11.00	JULY 16, 1990	9.23

EAST FELICIANA PARISH

305144091010901 LOCAL WELL NUMBER: EF-61

OWNER: TOWN OF CLINTON. (SEC. 83, T. 2S., R. 2E.) DRILLED UNUSED ARTESIAN WELL IN ZONE 1 AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN., REPORTED DEPTH 305 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 1/2-IN. HOLE IN COVER, 1.00 FT ABOVE LSD.
 LSD 210 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 63.76 BELOW LSD, MAY 16, 1961.
 LOWEST WATER LEVEL 86.15 BELOW LSD, MAY 1, 1986.
 RECORDS AVAILABLE 1961-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	80.84	FEB. 28, 1990	80.96	JUNE 8, 1990	80.74		

304959091093001 LOCAL WELL NUMBER: EF-185

OWNER: E. LOUISIANA STATE HOSPITAL. (SEC. 45, T. 2S., R. 1E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 14 TO 12 TO 10 IN., REPORTED DEPTH 1,514 FT, SCREENED 1,469-1,514. MP LOWER EDGE OF 1-IN. ACCESS PIPE, 1.48 FT ABOVE LSD.
 LSD 228 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 118.54 BELOW LSD, MAY 16, 1961.
 LOWEST WATER LEVEL 201.14 BELOW LSD, MAR. 28, 1985.
 RECORDS AVAILABLE 1961-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 28, 1990	195.83						

EAST FELICIANA PARISH--Continued

304309091083201 LOCAL WELL NUMBER: EF-223

OWNER: TOWN OF SLAUGHTER. (SEC. 7, T. 4S., R. 1E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 10 IN., DEPTH 2,000 FT, SCREENED 1,935-2,000. MP TOP OF SANITARY SEAL, 1.55 FT ABOVE LSD.

LSD 135 FT ABOVE NGVD.

HIGHEST WATER LEVEL 100.85 BELOW LSD, JULY 21, 1983,

LOWEST WATER LEVEL 134.83 BELOW LSD, JUNE 8, 1990.

RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	115.77	FEB. 28, 1990	107.79	MAY 30, 1990	120.98	JUNE 8, 1990	134.83

EVANGELINE PARISH

304120092263001 LOCAL WELL NUMBER: EV-229

OWNER: CHESTLEY FONTENOT. (SEC. 25, T. 4S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 12 IN., DEPTH 231 FT, SCREENED 149-231. MP FLOOR OF SHELTER HOUSE, 0.85 FT ABOVE LSD.

LSD 65.66 FT ABOVE NGVD.

HIGHEST WATER LEVEL 45.52 BELOW LSD, APR. 18, 1951,

LOWEST WATER LEVEL 108.60 BELOW LSD, JUNE 10, 1982.

RECORDS AVAILABLE 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1989	83.46H	JAN. 5, 1990	81.33	MAR. 27, 1990	95.97H	JULY 15, 1990	98.95
OCT. 5	83.42	JAN. 10	81.20H	MAR. 30	94.47	JULY 20	97.51
OCT. 10	83.61	JAN. 15	81.10	APR. 3	93.07H	JULY 25	95.96
OCT. 15	83.22	JAN. 20	80.70	APR. 5	93.21	JULY 31	93.85
NOV. 1	84.48H	JAN. 25	80.42	APR. 10	91.82	AUG. 5	92.40
NOV. 5	85.28	JAN. 31	80.34	APR. 15	93.34	AUG. 7	91.87H
NOV. 10	85.28	FEB. 5	80.38	APR. 20	89.72	AUG. 10	92.06
NOV. 15	83.85	FEB. 10	79.92	JUNE 5	97.55H	AUG. 15	92.38
NOV. 20	83.46	FEB. 15	79.68H	JUNE 10	100.77	AUG. 20	90.97
NOV. 25	82.82	FEB. 20	79.88	JUNE 15	105.28	AUG. 25	90.31
NOV. 29	83.02H	FEB. 25	79.81	JUNE 20	103.93	AUG. 31	89.59
NOV. 30	82.95	FEB. 28	79.81	JUNE 25	102.69	SEP. 5	89.14
DEC. 5	82.75	MAR. 5	79.47	JUNE 27	106.10J	SEP. 10	88.61
DEC. 10	82.16	MAR. 10	79.41	JUNE 30	105.26	SEP. 15	88.02
DEC. 15	83.27	MAR. 11	79.34J	JULY 5	102.06	SEP. 20	87.65
DEC. 20	82.54	MAR. 15	80.74	JULY 10	100.64	SEP. 25	87.35
DEC. 25	82.17	MAR. 20	86.35	JULY 11	100.21H	SEP. 30	87.74
DEC. 31	81.61	MAR. 25	93.91				

FRANKLIN PARISH

320941091411301 LOCAL WELL NUMBER: FR-720

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 30, T. 14N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 100 FT, SCREENED 97-100. MP TOP OF CASING, 4.00 FT ABOVE LSD.

LSD 75 FT ABOVE NGVD.

HIGHEST WATER LEVEL 17.90 BELOW LSD, NOV. 27, 1989,

LOWEST WATER LEVEL 18.46 BELOW LSD, JAN. 25, 1990.

RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 27, 1989	17.90	JAN. 25, 1990	18.46	MAR. 13, 1990	18.08	SEP. 26, 1990	18.12
JAN. 8, 1990	18.37						

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS
FRANKLIN PARISH--Continued

320958091425501 LOCAL WELL NUMBER: FR-721

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 25, T. 14N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 77 FT, SCREENED 72-77. MP TOP OF CASING, 2.10 FT ABOVE LSD. RECORDER INSTALLED ON WELL JAN. 25, 1990.
LSD 65.0 FT ABOVE NGVD.
HIGHEST WATER LEVEL 9.55 BELOW LSD, MAR. 16, 1990.
LOWEST WATER LEVEL 11.60 BELOW LSD, AUG. 20, 1990.
RECORDS AVAILABLE CURRENT YEAR.

WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL	WATER DATE	LEVEL
JAN. 25, 1990	10.07H	MAR. 25, 1990	10.44	MAY 31, 1990	10.64	JULY 31, 1990	11.54
JAN. 30	9.81H	MAR. 31	10.47	JUNE 2	9.89J	AUG. 5	11.55
JAN. 31	10.03	APR. 1	10.48J	JUNE 5	10.16	AUG. 10	11.56
FEB. 5	9.81	APR. 5	10.61	JUNE 10	10.43	AUG. 15	11.51
FEB. 10	9.62J	APR. 10	10.61	JUNE 15	10.53	AUG. 20	11.60J
FEB. 15	10.17	APR. 15	10.56	JUNE 20	10.66	AUG. 25	11.44
FEB. 20	10.46J	APR. 20	10.69	JUNE 25	10.87	AUG. 31	11.54
FEB. 25	10.15	APR. 25	10.73	JUNE 26	10.93H	SEP. 5	11.55
FEB. 28	10.33	APR. 30	10.81J	JUNE 30	11.07J	SEP. 10	11.53
MAR. 5	10.05	MAY 5	10.86	JULY 5	11.17	SEP. 13	11.22J
MAR. 10	10.39	MAY 10	10.89	JULY 9	11.27H	SEP. 15	11.31
MAR. 13	10.42H	MAY 12	10.93J	JULY 10	11.30	SEP. 20	11.43
MAR. 14	10.50J	MAY 15	9.87J	JULY 15	11.37	SEP. 25	11.44
MAR. 15	9.73	MAY 20	10.32	JULY 20	11.45	SEP. 26	11.43H
MAR. 16	9.55J	MAY 25	10.35	JULY 25	11.47	SEP. 30	11.42
MAR. 20	10.19						

GRANT PARISH

312703092224801 LOCAL WELL NUMBER: G-127B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 6N., R. 1E.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 97 FT, SCREENED 93-97. MP TOP OF CASING, 1.00 FT ABOVE LSD.
LSD 231.36 FT ABOVE NGVD.
HIGHEST WATER LEVEL 66.31 BELOW LSD, JULY 23, 1980.
LOWEST WATER LEVEL 72.43 BELOW LSD, JAN. 25, 1972.
RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1989	68.36	JAN. 5, 1990	68.70	APR. 25, 1990	68.47	JULY 17, 1990	68.50

313156092324101 LOCAL WELL NUMBER: G-314

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 7N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 99 FT, SCREENED 96-99. MP TOP OF CASING, 4.00 FT ABOVE LSD.
LSD 245 FT ABOVE NGVD.
HIGHEST WATER LEVEL 47.65 BELOW LSD, JULY 7, 1975.
LOWEST WATER LEVEL 60.55 BELOW LSD, DEC. 15, 1982.
RECORDS AVAILABLE 1971-89.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1989	51.38						

IBERIA PARISH

300035091443301 LOCAL WELL NUMBER: I-93

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 5, T. 12S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 585 FT, SCREENED 580-585. MP TOP OF 2-IN. CASING, 3.00 FT ABOVE LSD.
LSD 18.53 FT ABOVE NGVD.
HIGHEST WATER LEVEL 15.29 BELOW LSD, FEB. 25, 1974.
LOWEST WATER LEVEL 22.11 BELOW LSD, NOV. 4, 1974.
RECORDS AVAILABLE 1965-83, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	19.57	JAN. 11, 1990	18.87	APR. 5, 1990	16.48	SEP. 12, 1990	18.21
NOV. 29	19.71	MAR. 30	16.48	JULY 13	17.38		

SEE FOOTNOTES AT END OF TABLE.

IBERVILLE PARISH

301227091101301 LOCAL WELL NUMBER: IB-106

OWNER: J SUPPLES & SONS MERCANTILE CO. (SEC. 37, T. 10S., R. 13E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN., DEPTH 608 FT, SCREENED 588-608. MP TOP EDGE OF 3-IN. COLLAR, 0.95 FT ABOVE LSD.
 LSD 18.94 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 6.60 ABOVE LSD, JUNE 5, 1990.
 LOWEST WATER LEVEL 11.42 BELOW LSD, NOV. 27, 1989.
 RECORDS AVAILABLE 1959-60, 1964, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 27, 1989	11.42	JAN. 19, 1990	8.02	JUNE 5, 1990	+6.60	SEP. 17, 1990	11.38

JACKSON PARISH

321709092452401 LOCAL WELL NUMBER: JA-49

OWNER: STONE CONTAINER CORP. (SEC. 15, T. 15N., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 12 TO 8 IN., DEPTH 570 FT, SCREENED 542-570. MP TOP OF NIPPLE IN CASING COVER PLATE, 2.20 FT ABOVE LSD.
 LSD 160 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 114.16 BELOW LSD, JAN. 2, 1961.
 LOWEST WATER LEVEL 193.86 BELOW LSD, OCT. 1, 1967.
 RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1989	156.80	APR. 20, 1990	159.35	JULY 16, 1990	158.48		

322357092341701 LOCAL WELL NUMBER: JA-147

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 16N., R. 2W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 703 FT, SCREENED 693-703. MP TOP OF CASING, 3.00 FT ABOVE LSD.
 LSD 220 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 209.06 BELOW LSD, MAY 14, 1975.
 LOWEST WATER LEVEL 236.79 BELOW LSD, SEP. 28, 1990.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	234.96	JAN. 30, 1990	235.04	APR. 30, 1990	235.22	JULY 31, 1990	235.62
NOV. 30	235.18	MAR. 1	235.27	MAY 30	235.29	AUG. 31	236.46
DEC. 29	235.18	MAR. 29	235.07	JUNE 29	235.63	SEP. 28	236.79

JEFFERSON PARISH

295739090094601 LOCAL WELL NUMBER: JF-156

OWNER: JEFFERSON PARISH CONSOLIDATED WATER DISTRICT. (SEC. 46, T. 12S., R. 10E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN., DEPTH 780 FT, SCREENED 660-780. MP TOP OF 4-IN. PLASTIC LINER, 2.05 FT ABOVE LSD.
 LSD 9 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 67.95 BELOW LSD, APR. 24, 1984.
 LOWEST WATER LEVEL 94.34 BELOW LSD, NOV. 11, 1975.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	74.58	JAN. 17, 1990	71.77	APR. 4, 1990	69.73	JULY 24, 1990	70.64

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS
JEFFERSON DAVIS PARISH

301355092463001 LOCAL WELL NUMBER: JD-9

OWNER: WELSH CANAL CO. (SEC. 34, T. 9S., R. 4W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN., DEPTH 318 FT, SCREENED 238-318. MP LOWER LIP OF DISCHARGE PIPE, 4.55 FT ABOVE LSD.
LSD 24.1 FT ABOVE NGVD.
HIGHEST WATER LEVEL 19.52 BELOW LSD, MAR. 29, 1943.
LOWEST WATER LEVEL 95.00 BELOW LSD, JULY 21, 1980.
RECORDS AVAILABLE 1938-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	60.62	OCT. 31, 1989	59.33	JAN. 11, 1990	55.41	APR. 4, 1990	62.11

301300092584503 LOCAL WELL NUMBER: JD-485A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 10S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 290 FT, SCREENED 270-290. MP TOP OF 4-IN. CASING COLLAR, 3.00 FT ABOVE LSD.
LSD 21.36 FT ABOVE NGVD.
HIGHEST WATER LEVEL 48.00 BELOW LSD, MAR. 16, 1990.
LOWEST WATER LEVEL 107.41 BELOW LSD, JULY 19, 1980.
RECORDS AVAILABLE 1978-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	58.59H	DEC. 29, 1989	51.94H	MAR. 20, 1990	50.14	MAY 25, 1990	77.65
OCT. 5	58.05	DEC. 31	51.56	MAR. 25	51.21	JULY 2	84.12H
OCT. 10	59.22	JAN. 5, 1990	52.77	MAR. 28	57.80H	JULY 10	83.77H
OCT. 15	56.92	JAN. 10	51.24	MAR. 31	56.12	AUG. 1	75.37H
OCT. 20	55.69	JAN. 15	50.79	APR. 4	57.00H	AUG. 5	72.20
OCT. 25	55.00	JAN. 20	50.55	APR. 5	56.82	AUG. 10	71.31
OCT. 31	54.54	JAN. 25	50.08	APR. 10	57.26	AUG. 15	69.73
NOV. 5	53.94	JAN. 31	49.84H	APR. 15	57.15	AUG. 20	68.36
NOV. 10	54.00	FEB. 5	49.62	APR. 20	59.16	AUG. 24	67.71
NOV. 15	55.42	FEB. 10	49.30	APR. 25	69.49	AUG. 25	67.10
NOV. 20	54.47	FEB. 15	49.11	APR. 30	61.51	AUG. 31	64.01
NOV. 25	53.50	FEB. 20	48.96	MAY 2	61.19H	SEP. 5	64.77
NOV. 27	53.23H	FEB. 25	48.78	MAY 5	68.87	SEP. 10	63.10
NOV. 30	53.01	FEB. 28	48.75	MAY 10	62.94	SEP. 15	61.83
DEC. 5	52.63	MAR. 5	48.50	MAY 15	61.79	SEP. 20	60.97
DEC. 15	52.83	MAR. 10	48.46	MAY 20	71.70	SEP. 25	60.23
DEC. 20	52.24	MAR. 15	48.75	MAY 23	72.97H	SEP. 30	59.67
DEC. 25	51.98	MAR. 16	48.00J				

300508092405601 LOCAL WELL NUMBER: JD-491

OWNER: TOWN OF LAKE ARTHUR. (SEC. 14, T. 11S., R. 3W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN., DEPTH 377 FT, SCREENED 326-377. MP CENTER LINE OF HORIZONTAL BREATHER PIPE, 0.50 FT ABOVE LSD.
LSD 10.0 FT ABOVE NGVD.
HIGHEST WATER LEVEL 37.54 BELOW LSD, APR. 4, 1990.
LOWEST WATER LEVEL 37.54 BELOW LSD, APR. 4, 1990.
RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 4, 1990	37.54						

301356092462701 LOCAL WELL NUMBER: JD-773

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 34, T. 9S., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN., DEPTH 666 FT, SCREENED 656-666. MP TOP OF CASING, 3.20 ABOVE LSD.
LSD 22 FT ABOVE NGVD.
HIGHEST WATER LEVEL 54.42 BELOW LSD, APR. 4, 1990.
LOWEST WATER LEVEL 65.62 BELOW LSD, JULY 10, 1990.
RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	58.21	JAN. 11, 1990	54.46	APR. 4, 1990	54.42	JULY 10, 1990	65.62
OCT. 31	57.47						

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

377

LAFAYETTE PARISH

301426092000601 LOCAL WELL NUMBER: LF-662

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 100, T. 9S., R. 5E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 152 FT, SCREENED 146-152. MP TOP OF 1-IN. NIPPLE, 0.29 FT ABOVE LSD.
 LSD 40.37 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 42.98 BELOW LSD, APR. 5, 1990,
 LOWEST WATER LEVEL 47.17 BELOW LSD, OCT. 20, 1981.
 RECORDS AVAILABLE 1981-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1989	45.98	JAN. 16, 1990	44.86	APR. 5, 1990	42.98	JULY 13, 1990	44.64

300605091593505 LOCAL WELL NUMBER: LF-742

OWNER: TOWN OF YOUNGSHVILLE. (SEC. 7, T. 11S., R. 5E.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE., DIAM 16 TO 10 IN., DEPTH 96 FT, SCREENED 76-96. MP LOWER EDGE OF VENT PIPE, 1.50 FT ABOVE LSD.
 LSD 30.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 25.00 BELOW LSD, MAR. 6, 1986,
 LOWEST WATER LEVEL 31.11 BELOW LSD, DEC. 12, 1989.
 RECORDS AVAILABLE 1986, 1989.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1986	25.00R	DEC. 12, 1989	31.11				

LA SALLE PARISH

315444092122801 LOCAL WELL NUMBER: LA-254A

OWNER: CITY OF OLLA. (SEC. 30, T. 11N., R. 3E.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN COCK-FIELD AQUIFER OF EOCENE AGE, DIAM 10 IN., DEPTH 510 FT, SCREENED 450-510. MP TOP OF 2-IN. ACCESS PIPE, 0.50 FT ABOVE LSD.
 LSD 160.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 77.21 BELOW LSD, APR. 3, 1990,
 LOWEST WATER LEVEL 82.16 BELOW LSD, JUNE 21, 1990.
 RECORDS AVAILABLE 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 18, 1985	77.37	JAN. 12, 1990	77.93	JUNE 21, 1990	82.16	JULY 20, 1990	77.58
OCT. 18, 1989	78.17	APR. 5	77.21				

LINCOLN PARISH

324141092390501 LOCAL WELL NUMBER: L-26

OWNER: TOWN OF DUBACH. (SEC. 26, T. 20N., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 10 TO 6 IN., DEPTH 686 FT, SCREENED 633-686. MP TOP OF 3/4-IN. HOLE IN PLATE, 2.00 FT ABOVE LSD.
 LSD 155 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 95.20 BELOW LSD, APR. 22, 1950,
 LOWEST WATER LEVEL 170.20 BELOW LSD, SEP. 30, 1990.
 RECORDS AVAILABLE 1950, 1962, 1967-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1989	168.73J	DEC. 25, 1989	168.92	MAR. 20, 1990	168.46	JUNE 15, 1990	167.98
OCT. 5	168.93	DEC. 30	168.62J	MAR. 22	168.34H	JUNE 20	168.10
OCT. 10	169.01	DEC. 31	168.73	MAR. 25	168.48	JUNE 25	168.17
OCT. 15	168.99	JAN. 1, 1990	168.89J	MAR. 31	168.10	JUNE 30	168.35J
OCT. 20	169.12	JAN. 3	168.89H	APR. 5	168.12	JULY 12	168.42H
OCT. 25	169.15	JAN. 5	168.75	APR. 10	168.15	JULY 15	168.56H
OCT. 27	169.16J	JAN. 10	168.75	APR. 15	168.12	JULY 20	168.73H
OCT. 31	169.09	JAN. 15	168.73	APR. 18	168.28H	JULY 25	168.79
NOV. 5	169.10	JAN. 20	168.38	APR. 20	168.19	JULY 31	168.86
NOV. 6	168.94H	JAN. 24	168.16J	APR. 25	168.19	AUG. 5	168.96
NOV. 10	169.12	JAN. 25	168.39	APR. 28	167.98J	AUG. 10	169.08
NOV. 15	168.98	JAN. 31	168.37H	APR. 30	168.10	AUG. 15	169.13
NOV. 18	169.24J	FEB. 5	168.20	MAY 5	168.20	AUG. 20	169.41H
NOV. 20	169.14	FEB. 10	168.06	MAY 10	168.26J	AUG. 25	169.31
NOV. 25	168.78J	FEB. 15	168.03J	MAY 15	168.04	AUG. 31	169.52
NOV. 30	169.09	FEB. 20	168.44	MAY 20	168.01	SEP. 5	169.68
DEC. 1	168.97H	FEB. 25	168.57	MAY 21	168.16H	SEP. 10	169.76
DEC. 5	168.81	FEB. 28	168.42	MAY 25	168.06	SEP. 15	169.80
DEC. 10	168.80	MAR. 5	168.34	MAY 31	167.89J	SEP. 20	169.88
DEC. 15	168.89	MAR. 10	168.34	JUNE 5	167.75J	SEP. 25	170.05
DEC. 20	168.91	MAR. 14	168.08J	JUNE 10	167.99	SEP. 30	170.20J
DEC. 23	169.19J	MAR. 15	168.22				

SEE FOOTNOTES AT END OF TABLE.

LIVINGSTON PARISH

303034090380301 LOCAL WELL NUMBER: LI-52

OWNER: COY KINCHEN. (SEC. 20, T. 6S., R. 6E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., REPORTED DEPTH 1,865 FT, SCREENED 1,825-1,865. MP CENTER LINE OF 3/4-IN. TEE, 1.20 FT ABOVE LSD.

LSD 46 FT ABOVE NGVD.

HIGHEST WATER LEVEL 116.20 ABOVE LSD, NOV. 30, 1950.

LOWEST WATER LEVEL 41.20 ABOVE LSD, OCT. 18, 1982.

RECORDS AVAILABLE 1950-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 30, 1950	116.20			OCT. 18, 1982	41.20		

302956090504601 LOCAL WELL NUMBER: LI-113

OWNER: W.K. COBURN. (SEC. 30, T. 6S., R. 4E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 3 IN., REPORTED DEPTH 1,300 FT, SCREENED INTERVAL

UNKNOWN, MP TOP OF COLLAR ABOVE VALVE, 1.50 FT ABOVE LSD.

LSD 46 FT ABOVE NGVD.

HIGHEST WATER LEVEL 10.98 BELOW LSD, APR. 14, 1967.

LOWEST WATER LEVEL 20.00 BELOW LSD, APR. 12, 1989.

RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 6, 1989	17.63	FEB. 27, 1990	17.30	APR. 11, 1990	17.27	JULY 3, 1990	16.96

302450090355601 LOCAL WELL NUMBER: LI-122

OWNER: BLOOD RIVER CHURCH OF GOD. (SEC. 45, T. 7S., R. 6E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 1 1/2 IN., REPORTED DEPTH 500 FT, SCREENED 490-500. MP TOP EDGE OF 3/4-IN. NIPPLE, 0.50 FT ABOVE LSD.

LSD 11 FT ABOVE NGVD.

HIGHEST WATER LEVEL 13.40 ABOVE LSD, JULY 15, 1966.

LOWEST WATER LEVEL 2.09 ABOVE LSD, NOV. 1, 1989.

RECORDS AVAILABLE 1966, 1984, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	+2.09	FEB. 27, 1990	+6.50	APR. 10, 1990	+3.30	JULY 3, 1990	+3.40

302724090565801 LOCAL WELL NUMBER: LI-185

OWNER: CITY OF DENHAM SPRINGS. (SEC. 38, T. 7S., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 14 IN., DEPTH 2,611 FT, SCREENED 2,531-2,611. MP BOTTOM LIP OF VENT ELBOW, 1.60 FT ABOVE LSD.

LSD 37 FT ABOVE NGVD.

HIGHEST WATER LEVEL 41.14 BELOW LSD, FEB. 3, 1989.

LOWEST WATER LEVEL 59.93 BELOW LSD, MAY 11, 1988.

RECORDS AVAILABLE 1979, 1983, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	+2.09	FEB. 27, 1990	+6.50	APR. 10, 1990	+3.30	JULY 3, 1990	+3.40

322614091122001 LOCAL WELL NUMBER: LI-187

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 25, T. 7N., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 117 FT, SCREENED 112-117. MP TOP OF CASING, AT LSD.

LSD 80 FT ABOVE NGVD.

HIGHEST WATER LEVEL 8.27 BELOW LSD, MAR. 15, 1990.

LOWEST WATER LEVEL 16.01 BELOW LSD, JUNE 8, 1988.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	12.39	MAR. 15, 1990	8.27	JULY 19, 1990	15.86	SEP. 25, 1990	13.30
JAN. 9, 1990	11.30	APR. 25	9.46				

SEE FOOTNOTES AT END OF TABLE.

MOREHOUSE PARISH

324626091543901 LOCAL WELL NUMBER: MO-5

OWNER: INTERNATIONAL PAPER CO. (SEC. 25, T. 21N., R. 5E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 10 IN., DEPTH 860 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF NIPPLE IN METAL COVER PLATE, 1.60 FT ABOVE LSD. RECORDER REMOVED FROM WELL OCT. 2, 1989.
 LSD 117.44 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 143.59 BELOW LSD, JUNE 6, 1989.
 LOWEST WATER LEVEL 219.40 BELOW LSD, SEP. 30, 1975.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	153.71	FEB. 6, 1990	151.28	APR. 24, 1990	153.30	JULY 16, 1990	155.84

323806091530401 LOCAL WELL NUMBER: MO-67

OWNER: D.W. PIPES. (SEC. 17, T. 19N., R. 6E.) DRILLED UNUSED WATER-TABLE WELL IN THE ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN., DEPTH 81 FT, SCREENED 71-81. MP TOP OF CASING, 7.90 FT ABOVE LSD.
 LSD 73.51 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 1.59 BELOW LSD, DEC. 19, 1961.
 LOWEST WATER LEVEL 23.88 BELOW LSD, SEP. 1, 1982.
 RECORDS AVAILABLE 1953-77, 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	11.75	JAN. 11, 1990	7.77	APR. 2, 1990	2.26	JULY 17, 1990	11.00

324753091471201 LOCAL WELL NUMBER: MO-342

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 19, T. 21N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 620 FT, SCREENED 610-620. MP TOP OF BUSHING, 0.15 FT ABOVE LSD.
 LSD 88.34 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 88.34 BELOW LSD, MAR. 12, 1990.
 LOWEST WATER LEVEL 103.30 BELOW LSD, AUG. 20, 1981.
 RECORDS AVAILABLE 1968-81, 1985-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 12, 1990	88.34	SEP. 24, 1990	89.14				

324753091471202 LOCAL WELL NUMBER: MO-343

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 19, T. 21N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN., DEPTH 176 FT, SCREENED 166-176. MP TOP OF BUSHING, 0.30 FT ABOVE LSD.
 LSD 88.41 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 0.50 BELOW LSD, MAY 13, 1975.
 LOWEST WATER LEVEL 13.79 BELOW LSD, AUG. 26, 1981.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	9.14	JAN. 9, 1990	6.40	APR. 2, 1990	1.50	JULY 9, 1990	12.82

324647091543806 LOCAL WELL NUMBER: MO-657

OWNER: THE PEOPLES WATER SERVICE CO. (SEC. 25, T. 21N., R. 5E.) DRILLED UNUSED ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN., DEPTH 97 FT, SCREENED 57-97. MP TOP OF CASING, 2.90 FT ABOVE LSD.
 LSD 126.64 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 55.53 BELOW LSD, JULY 9, 1990.
 LOWEST WATER LEVEL 56.30 BELOW LSD, SEP. 27, 1989.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1989	56.28	JAN. 9, 1990	56.20	APR. 24, 1990	55.60	JULY 9, 1990	55.53

SEE FOOTNOTES AT END OF TABLE.

NATCHITOCHES PARISH

312934093114801 LOCAL WELL NUMBER: NA-9

OWNER: U.S. FOREST SERVICE. (SEC. 21, T. 6N., R. 8W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN IN COCKFIELD AQUIFER OF EOCENE AGE, DIAM 4 IN., DEPTH 1,300 FT, SCREENED 1,200-1,300. MP TOP OF SANITARY SEAL, 1.70 FT ABOVE LSD.
 LSD 185.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 7.93 ABOVE LSD, APR. 24, 1990.
 LOWEST WATER LEVEL 8.71 BELOW LSD, JULY 26, 1990.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1989	8.15	JAN. 4, 1990	8.66	APR. 24, 1990	7.93	JULY 26, 1990	8.71
NOV. 7	8.06						

313918093023101 LOCAL WELL NUMBER: NA-284

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 42, T. 8N., R. 7W.) BORED OBSERVATION ARTESIAN WELL IN RED RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 72 FT, SCREENED 69-72. MP TOP OF CASING, 1.60 FT ABOVE LSD.
 LSD 102.59 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 0.36 ABOVE LSD, AUG. 22, 1969.
 LOWEST WATER LEVEL 13.71 BELOW LSD, OCT. 1, 1956.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 25, 1989	8.97	FEB. 28, 1990	10.57	MAY 22, 1990	3.83	JUNE 18, 1990	5.10
JAN. 9, 1990	4.96	APR. 5	3.52	JUNE 4	2.85	JULY 10	7.00

ORLEANS PARISH

295652090020101 LOCAL WELL NUMBER: OR-42

OWNER: U.S. NAVY. (SEC. 16, T. 13S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN., REPORTED DEPTH 775 FT, SCREENED 664-775. MP TOP OF 2 X 6-IN. RECORDER BASE, 1.00 FT ABOVE LSD.
 LSD 10 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.07 BELOW LSD, MAY 25, 1942.
 LOWEST WATER LEVEL 140.48 BELOW LSD, SEP. 20, 1968.
 RECORDS AVAILABLE 1942, 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1989	89.49	DEC. 31, 1989	85.81	MAR. 31, 1990	81.83	JUNE 30, 1990	83.30
OCT. 10	89.53	JAN. 5, 1990	86.05	APR. 5	81.47H	JULY 5	83.19
OCT. 11	89.56H	JAN. 10	86.11	APR. 10	81.34	JULY 10	83.67
OCT. 15	89.71	JAN. 15	85.49	APR. 15	81.10	JULY 15	83.75
OCT. 20	89.81	JAN. 18	85.35H	APR. 20	80.88	JULY 20	83.52
OCT. 25	89.82	JAN. 20	85.20	APR. 25	80.82	JULY 25	83.39H
OCT. 31	89.63	JAN. 25	85.12	APR. 27	80.62J	JULY 31	83.23
NOV. 1	89.82H	JAN. 31	84.54	APR. 30	80.88	AUG. 5	83.21
NOV. 2	89.92J	FEB. 5	84.40	MAY 5	81.18	AUG. 10	83.21
NOV. 5	89.59	FEB. 10	84.07	MAY 10	81.69	AUG. 15	83.15
NOV. 10	89.51	FEB. 15	83.83	MAY 15	81.58	AUG. 20	83.34
NOV. 15	89.40	FEB. 20	83.75	MAY 20	81.61	AUG. 25	83.80
NOV. 20	89.17	FEB. 25	83.72	MAY 25	81.98	AUG. 31	84.04
NOV. 25	88.86	FEB. 28	83.54	MAY 30	82.04	SEP. 5	84.30
NOV. 30	88.69	MAR. 5	83.30	JUNE 5	82.14	SEP. 10	84.59
DEC. 5	88.68	MAR. 10	83.31	JUNE 10	82.18	SEP. 15	84.66
DEC. 10	88.38	MAR. 15	83.18	JUNE 15	82.55	SEP. 20	85.11
DEC. 15	87.86	MAR. 20	83.24	JUNE 20	82.56	SEP. 25	85.47
DEC. 20	87.45	MAR. 25	82.84	JUNE 25	82.85	SEP. 30	85.61
DEC. 25	87.17						

SEE FOOTNOTES AT END OF TABLE.

ORLEANS PARISH--Continued

300525089464001 LOCAL WELL NUMBER: OR-175

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 38, T. 11S., R. 14E.) DRILLED OBSERVATION ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 449 FT, SCREENED 439-449. MP TOP OF 2-IN. CASING, AT LSD.

LSD 10 FT ABOVE NGVD.

HIGHEST WATER LEVEL 19.84 BELOW LSD, SEP. 19, 1963.

LOWEST WATER LEVEL 37.74 BELOW LSD, NOV. 1, 1988.

RECORDS AVAILABLE 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	36.83	JAN. 17, 1990	37.42	APR. 4, 1990	36.73	JULY 24, 1990	36.82

300959089441901 LOCAL WELL NUMBER: OR-179

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 19, T. 10S., R. 15E.) DRILLED OBSERVATION ARTESIAN WELL IN ABITA AQUIFER (ZONE 2) OF PLEISTOCENE AGE, DIAM 2 1/2 IN., DEPTH 2,434 FT, SCREENED 2,429-2,434. MP CENTER LINE OF DISCHARGE PIPE, 2.87 FT ABOVE LSD.

LSD 4 FT ABOVE NGVD.

HIGHEST WATER LEVEL 107.20 ABOVE LSD, NOV. 10, 1965.

LOWEST WATER LEVEL 54.30 ABOVE LSD, JAN. 4, 1989.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	+58.80	JAN. 17, 1990	+59.60	APR. 4, 1990	+57.90	JULY 24, 1990	+57.00

300152090021801 LOCAL WELL NUMBER: OR-182

OWNER: ORLEANS LEVEE BOARD. (SEC. 37, T. 12S., R. 12E.) DRILLED RECREATIONAL ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 8 IN., DEPTH 690 FT, SCREENED 600-690. MP TOP OF BREATHER PIPE, 1.65 FT ABOVE LSD.

LSD 5 FT ABOVE NGVD.

HIGHEST WATER LEVEL 108.76 BELOW LSD, APR. 7, 1982.

LOWEST WATER LEVEL 154.00 BELOW LSD, AUG. 2, 1968.

RECORDS AVAILABLE 1968, 1976, 1982, 1986-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	111.42	JAN. 17, 1990	117.11	JULY 24, 1990	114.97		

300349089562401 LOCAL WELL NUMBER: OR-203

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 30, T. 11S., R. 13E.) DRILLED OBSERVATION ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 453 FT, SCREENED 448-453. MP TOP OF 2-IN. CASING, 0.65 FT BELOW LSD.

LSD 5 FT BELOW NGVD.

HIGHEST WATER LEVEL 66.22 BELOW LSD, APR. 6, 1990.

LOWEST WATER LEVEL 81.72 BELOW LSD, SEP. 29, 1981.

RECORDS AVAILABLE 1981-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 14, 1989	72.85	APR. 6, 1990	66.22				

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

OUACHITA PARISH

322901092091501 LOCAL WELL NUMBER: OU-77

OWNER: MANVILLE FOREST PRODUCTS. (SEC. 3, T. 17N., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 16 IN., DEPTH 851 FT, SCREENED INTERVAL UNKNOWN. MP FLOOR OF RECORDER SHELTER, 2.40 FT ABOVE LSD. MEASUREMENTS DISCONTINUED AFTER APR. 30, 1990.
 LSD 75.9 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 168.82 BELOW LSD, JULY 7, 1952.
 LOWEST WATER LEVEL 278.12 BELOW LSD, OCT. 10, 1986.
 RECORDS AVAILABLE 1946-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1989	237.88J	NOV. 25, 1989	239.78	JAN. 11, 1990	236.10J	FEB. 28, 1990	237.06
OCT. 5	239.65H	NOV. 27	240.25H	JAN. 12	236.40H	MAR. 3	236.69J
OCT. 10	239.49	NOV. 30	239.46	JAN. 15	237.31	MAR. 5	238.13
OCT. 15	239.34	DEC. 5	236.95	JAN. 20	236.95	MAR. 10	237.77
OCT. 20	239.91	DEC. 10	230.68J	JAN. 25	238.51	MAR. 15	239.10
OCT. 22	240.70J	DEC. 15	233.23	JAN. 29	237.61H	MAR. 20	241.05J
OCT. 25	240.37	DEC. 18	234.78H	JAN. 31	238.49	MAR. 25	238.35
OCT. 31	240.34	DEC. 20	235.00	FEB. 5	239.25	MAR. 31	237.03
NOV. 5	239.72	DEC. 25	239.44	FEB. 7	240.30J	APR. 3	237.29H
NOV. 10	240.01	DEC. 26	241.55J	FEB. 10	238.57	APR. 5	237.75
NOV. 14	239.25J	DEC. 31	237.64	FEB. 15	238.38	APR. 15	237.38
NOV. 15	239.38	JAN. 2, 1990	240.64J	FEB. 20	238.19	APR. 20	237.00
NOV. 19	241.35J	JAN. 5	238.00	FEB. 24	236.34J	APR. 25	237.13
NOV. 20	240.66	JAN. 10	236.89	FEB. 25	237.27	APR. 30	237.09

321714092041401 LOCAL WELL NUMBER: OU-402

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 16, T. 15N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 750 FT, SCREENED 740-750. MP TOP OF BUSHING, 0.50 FT ABOVE LSD. PRIOR TO SEP. 24, 1990, MP TOP OF CASING, 3.68 FT ABOVE LSD.
 LSD 63.3 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 37.01 BELOW LSD, JULY 5, 1965.
 LOWEST WATER LEVEL 52.48 BELOW LSD, SEP. 24, 1990.
 RECORDS AVAILABLE 1965-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 12, 1990	50.62	SEP. 24, 1990	52.48				

321714092041402 LOCAL WELL NUMBER: OU-403

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 16, T. 15N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 460 FT, SCREENED 453-460. MP TOP OF CASING, 0.35 FT ABOVE LSD. PRIOR TO SEP. 24, 1990, MP TOP OF CASING, 1.64 FT ABOVE LSD.
 LSD 63.3 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.71 BELOW LSD, SEP. 13, 1967.
 LOWEST WATER LEVEL 61.20 BELOW LSD, SEP. 24, 1990.
 RECORDS AVAILABLE 1965-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 12, 1990	58.23	SEP. 24, 1990	61.20				

323100092165802 LOCAL WELL NUMBER: OU-444

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 29, T. 18N., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 670 FT, SCREENED 660-670. MP TOP OF CASING, 3.60 FT ABOVE LSD.
 LSD 118 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 171.15 BELOW LSD, AUG. 20, 1969.
 LOWEST WATER LEVEL 219.05 BELOW LSD, JULY 23, 1990.
 RECORDS AVAILABLE 1969-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 29, 1990	215.42	APR. 25, 1990	214.14	JUNE 26, 1990	215.80	JULY 23, 1990	219.05

SEE FOOTNOTES AT END OF TABLE.

POINTE COUPEE PARISH

304939091422101 LOCAL WELL NUMBER: PC-39

OWNER: C. FLINT. (SEC. 13, T. 3S., R. 7E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 2 IN., REPORTED DEPTH 460 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF REDUCER AT WELL, 1.30 FT ABOVE LSD.

LSD 41 FT ABOVE NGVD.

HIGHEST WATER LEVEL 3.19 ABOVE LSD, MAY 23, 1973.

LOWEST WATER LEVEL 26.64 BELOW LSD, DEC. 4, 1963.

RECORDS AVAILABLE 1961, 1963-64, 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1989	21.26	FEB. 20, 1990	12.54	APR. 10, 1990	7.33	JULY 30, 1990	13.48

303402091325501 LOCAL WELL NUMBER: PC-70

OWNER: THEO H. GLAZIER, SR. (SEC. 16, T. 6S., R. 9E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., REPORTED DEPTH 2,294 FT, SCREENED 2,259-2,294. MP CENTER LINE OF TEE, 0.80 FT ABOVE LSD.

LSD 26 FT ABOVE NGVD.

HIGHEST WATER LEVEL 69.50 ABOVE LSD, JULY 15, 1960.

LOWEST WATER LEVEL 2.80 ABOVE LSD, SEP. 8, 1989.

RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1989	+3.00	FEB. 20, 1990	+4.70	APR. 20, 1990	+4.80	JULY 30, 1990	+3.70

303357091330401 LOCAL WELL NUMBER: PC-138

OWNER: VILLAGE OF LIVONIA. (SEC. 16, T. 6S., R. 9E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN., REPORTED DEPTH 1,637 FT, SCREENED 1,617-1,637. MP TOP OF 3-IN COLLAR, 0.60 FT ABOVE LSD.

LSD 27 FT ABOVE NGVD.

HIGHEST WATER LEVEL 16.64 BELOW LSD, MAY 23, 1973.

LOWEST WATER LEVEL 36.89 BELOW LSD JULY 30, 1989.

RECORDS AVAILABLE 1972-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 12, 1990	36.42	JULY 30, 1990	36.89				

305023091393901 LOCAL WELL NUMBER: PC-143

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 37, T. 3S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN., DEPTH 1,228 FT, SCREENED 1,218-1,228. MP 3/8-IN. HOLE IN 2-IN. PLUG ATOP WELL, 2.50 FT ABOVE LSD.

LSD 41 FT ABOVE NGVD.

HIGHEST WATER LEVEL 18.60 ABOVE LSD, APR. 17, 1968.

LOWEST WATER LEVEL 9.02 BELOW LSD, JULY 30, 1990.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1989	7.88	FEB. 20, 1990	5.52	APR. 10, 1990	6.56	JULY 30, 1990	9.02

305023091393902 LOCAL WELL NUMBER: PC-144

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 37, T. 3S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN., DEPTH 835 FT, SCREENED 825-835. MP CENTER OF GAGE IN BUSHING ATOP CASING, 2.66 FT ABOVE LSD.

LSD 41 FT ABOVE NGVD.

HIGHEST WATER LEVEL 12.20 ABOVE LSD, APR. 17, 1968.

LOWEST WATER LEVEL 9.49 BELOW LSD, NOV. 13, 1989.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1989	9.49	FEB. 20, 1990	8.06	APR. 10, 1990	7.84	JULY 30, 1990	8.85

SEE FOOTNOTES AT END OF TABLE.

POINTE COUPEE PARISH--Continued

303538091232501 LOCAL WELL NUMBER: PC-154

OWNER: ALMA PLANTATION. (SEC. 48, T. 5S., R. 11E.) DRILLED INDUSTRIAL ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 12 IN., DEPTH 1,263 FT, SCREENED 1,174-1,228 AND 1,237-1,263. MP TOP OF BREATHER PIPE, 1.00 FT ABOVE LSD.
 LSD 36 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 37.84 BELOW LSD, AUG. 4, 1975.
 LOWEST WATER LEVEL 69.89 BELOW LSD, FEB. 20, 1990.
 RECORDS AVAILABLE 1972-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 20, 1990	69.89	APR. 10, 1990	65.75	JULY 30, 1990	65.01		

303250091365001 LOCAL WELL NUMBER: PC-155

OWNER: JOHN BLANCHARD. (SEC. 31, T. 6S., R. 8E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., REPORTED DEPTH 990 FT, SCREENED 970-990. MP TOP OF BOLT HOLE ON NW SIDE OF SANITARY SEAL, 0.35 FT ABOVE LSD.
 LSD 25 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 19.20 BELOW LSD, AUG. 8, 1975.
 LOWEST WATER LEVEL 33.50 BELOW LSD, OCT. 19, 1988.
 RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1989	32.00	FEB. 20, 1990	32.35	APR. 10, 1990	31.92	JULY 30, 1990	31.93

RAPIDES PARISH

310928092421401 LOCAL WELL NUMBER: R-851

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 8, T. 2N., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN THE CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 131 FT, SCREENED 128-131. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 220.55 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 51.69 BELOW LSD, APR. 24, 1990.
 LOWEST WATER LEVEL 56.79 BELOW LSD, APR. 6, 1973.
 RECORDS AVAILABLE 1966-86, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 3, 1990	52.14	APR. 24, 1990	51.69	JULY 24, 1990	51.94		

312409092520901 LOCAL WELL NUMBER: R-879

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 22, T. 5N., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CATAHOULA FM. OF MIOCENE AGE, DIAM 2 IN., DEPTH 810 FT, SCREENED 800-810. MP TOP OF CASING, 3.90 FT ABOVE LSD.
 LSD 300 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 209.43 BELOW LSD, APR. 8, 1969.
 LOWEST WATER LEVEL 218.70 BELOW LSD, OCT. 4, 1988.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	218.22	JAN. 4, 1990	218.26	APR. 24, 1990	217.88	JULY 12, 1990	217.58

311159092441001 LOCAL WELL NUMBER: R-1056

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36, T. 3N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF PLIOCENE-MIOCENE AGE, DIAM 2 IN., DEPTH 1,555 FT, SCREENED 1,545-1,555. MP TOP OF BUSHING, 0.55 FT BELOW LSD.
 LSD 240 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 157.97 BELOW LSD, MAY 9, 1977.
 LOWEST WATER LEVEL 241.79 BELOW LSD, JULY 24, 1990.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	241.50	JAN. 4, 1990	238.90	APR. 24, 1990	235.95	JULY 24, 1990	241.79
NOV. 28	239.75						

SEE FOOTNOTES AT END OF TABLE.

RAPIDES PARISH--Continued

310541092293601 LOCAL WELL NUMBER: R-1085B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 1N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF PLIOCENE-MIOCENE AGE, DIAM 2 IN., DEPTH 500 FT, SCREENED 490-500. MP TOP OF BUSHING, AT LSD.
 LSD 100 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 38.60 BELOW LSD, MAY 20, 1975,
 LOWEST WATER LEVEL 53.48 BELOW LSD, AUG. 19, 1986.
 RECORDS AVAILABLE 1975-84, 1987-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	52.22	JAN. 4, 1990	51.95	APR. 24, 1990	51.23	JULY 24, 1990	51.39
NOV. 29	52.25						

310007092431601 LOCAL WELL NUMBER: R-1207

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 1, T. 1S., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 4 TO 2 IN., DEPTH 2,772 FT, SCREENED 2,752-2,772. MP TOP OF BUSHING, 4.20 FT ABOVE LSD.
 LSD 180 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 56.10 BELOW LSD, DEC. 1, 1981,
 LOWEST WATER LEVEL 72.98 BELOW LSD, JULY 11, 1990.
 RECORDS AVAILABLE 1981-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	72.09	JAN. 10, 1990	72.07	APR. 3, 1990	72.19	JULY 11, 1990	72.98
NOV. 14	72.00						

RED RIVER PARISH

320316093114201 LOCAL WELL NUMBER: RR-278

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 12N., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF EOCENE-PALEOCENE AGE, DIAM 2 IN., DEPTH 348 FT, SCREENED 338-348. MP TOP OF BUSHING, AT LSD.
 LSD 160 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 18.08 BELOW LSD, APR. 20, 1990,
 LOWEST WATER LEVEL 20.58 BELOW LSD, NOV. 24, 1982.
 RECORDS AVAILABLE 1981-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1989	18.62	JAN. 30, 1990	18.10	APR. 20, 1990	18.08	JULY 26, 1990	18.44
JAN. 3, 1990	18.44						

320019093225603 LOCAL WELL NUMBER: RR-280

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 22, T. 12N., R. 10W.) BORED OBSERVATION ARTESIAN WELL IN THE RED RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 42 FT, SCREENED 39-42. MP TOP OF CASING, 4.70 FT ABOVE LSD.
 LSD 128 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 1.00 BELOW LSD, JUNE 4, 1990,
 LOWEST WATER LEVEL 15.20 BELOW LSD, OCT. 16, 1984.
 RECORDS AVAILABLE 1982-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1989	9.89	APR. 9, 1990	3.58	JUNE 4, 1990	1.00	JULY 9, 1990	6.26
JAN. 11, 1990	8.55	MAY 23	1.76	JUNE 18	3.65		

SEE FOOTNOTES AT END OF TABLE.

RICHLAND PARISH

323029091430001 LOCAL WELL NUMBER: RI-89

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 26, T. 18N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN., DEPTH 300 FT, SCREENED 290-300. MP TOP OF CASING, 4.20 FT ABOVE LSD.

LSD 84 FT ABOVE NGVD.

HIGHEST WATER LEVEL 17.75 BELOW LSD, MAY 21, 1975.

LOWEST WATER LEVEL 21.23 BELOW LSD, SEP. 10, 1969.

RECORDS AVAILABLE 1969-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	19.99	JAN. 8, 1990	20.11	APR. 2, 1990	19.19	JULY 19, 1990	19.82

322706091453402 LOCAL WELL NUMBER: RI-92

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 16, T. 17N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 153 FT, SCREENED 143-153. MP TOP OF HOLE IN CASING CAP, 4.30 FT ABOVE LSD.

LSD 80 FT ABOVE NGVD.

HIGHEST WATER LEVEL 9.20 BELOW LSD, MAY 3, 1984.

LOWEST WATER LEVEL 13.98 BELOW LSD, NOV. 30, 1970.

RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1989	10.49	JAN. 8, 1990	11.07	APR. 2, 1990	9.64	JULY 19, 1990	10.29

322623091294901 LOCAL WELL NUMBER: RI-112

OWNER: MRS. EMMETT REYNOLDS. (SEC. 24, T. 17N., R. 9E.) DRILLED UNUSED WATER-TABLE WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 67 FT, SCREENED INTER-VAL KNOWN. MP TOP OF CASING, 1.90 FT ABOVE LSD. PRIOR TO SEP. 25, 1990, MP TOP OF CASING, 2.0 FT ABOVE LSD.

LSD 95 FT ABOVE NGVD.

HIGHEST WATER LEVEL 30.19 BELOW LSD, MAY 25, 1978.

LOWEST WATER LEVEL 35.42 BELOW LSD, SEP. 22, 1982.

RECORDS AVAILABLE 1978-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1990	33.06	SEP. 25, 1990	33.42				

322636091295702 LOCAL WELL NUMBER: RI-114

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 24, T. 17N., R. 9E.) DRILLED OBSERVATION WATER-TABLE WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 66 FT, SCREENED 63-66. MP TOP OF CASING, 4.35 FT ABOVE LSD.

LSD 95 FT ABOVE NGVD.

HIGHEST WATER LEVEL 31.91 BELOW LSD, AUG. 7, 1975.

LOWEST WATER LEVEL 34.95 BELOW LSD, DEC. 4, 1972.

RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1990	32.14	SEP. 25, 1990	32.30				

322605091301101 LOCAL WELL NUMBER: RI-124

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 25, T. 17N., R. 9E.) BORED OBSERVATION WATER-TABLE WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 84 FT, SCREENED 81-84. MP TOP OF CASING, 1.60 FT ABOVE LSD.

LSD 95 FT ABOVE NGVD.

HIGHEST WATER LEVEL 32.13 BELOW LSD, AUG. 7, 1975.

LOWEST WATER LEVEL 34.53 BELOW LSD, SEP. 22, 1982.

RECORDS AVAILABLE 1974-84, 1986-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1990	32.22	SEP. 25, 1990	32.53				

SEE FOOTNOTES AT END OF TABLE.

SABINE PARISH

313510093282101 LOCAL WELL NUMBER: SA-103

OWNER: LOUIS ALFORD. (SEC. 14, T. 7N., R. 11W.) DRILLED UNUSED ARTESIAN WELL IN THE WILCOX GROUP OF EOCENE-PALEOCENE AGE, DIAM 10 IN., DEPTH 170 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 1.80 FT ABOVE LSD.
 LSD 220 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 3.34 BELOW LSD, MAR. 21, 1961.
 LOWEST WATER LEVEL 16.93 BELOW LSD, MAR. 1, 1982.
 RECORDS AVAILABLE 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	9.54	JAN. 3, 1990	8.56	APR. 23, 1990	6.39	JULY 25, 1990	9.02

312206093311001 LOCAL WELL NUMBER: SA-392

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 5N., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN., DEPTH 544 FT, SCREENED 539-544. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 242 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 23.79 BELOW LSD, JULY 3, 1975.
 LOWEST WATER LEVEL 26.30 BELOW LSD, NOV. 13, 1979.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	24.75	JAN. 3, 1990	24.50	APR. 23, 1990	24.19	JULY 25, 1990	24.52

ST. CHARLES PARISH

300022090241001 LOCAL WELL NUMBER: SC-9

OWNER: SHELL OIL CO. (SEC. 6, T. 12S., R. 8E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 24 IN., DEPTH 808 FT, SCREENED 673-808. MP TOP OF 2-IN. COLLAR ON STEEL PLATE, AT LSD.
 LSD 4.79 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 12.40 BELOW LSD, JAN. 19, 1950.
 LOWEST WATER LEVEL 39.98 BELOW LSD, SEP. 14, 1953.
 RECORDS AVAILABLE 1943, 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	22.50	JAN. 17, 1990	21.68	APR. 4, 1990	19.90	JULY 24, 1990	19.73

300022090241002 LOCAL WELL NUMBER: SC-14

OWNER: SHELL OIL CO. (SEC. 6, T. 12S., R. 8E.) DRILLED UNUSED ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 18 IN., DEPTH 404 FT, SCREENED 324-404. MP BOTTOM EDGE OF DOOR ON CULVERT, 1.35 FT ABOVE LSD. RECORDER REMOVED FROM WELL OCT. 31, 1989.
 LSD 5.51 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 15.22 BELOW LSD, MAY 5, 1988.
 LOWEST WATER LEVEL 90.74 BELOW LSD, SEP. 17, 1957.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1989	30.09	OCT. 20, 1989	37.14	OCT. 31, 1989	37.65H	APR. 4, 1990	27.93
OCT. 10	36.10	OCT. 25	37.61	JAN. 17, 1990	32.39	JULY 24	24.43
OCT. 15	36.68						

ST. HELENA PARISH

305300090502701 LOCAL WELL NUMBER: SH-9

OWNER: TWO-B RANCH. (SEC. 73, T. 2S., R. 4E.) DRILLED DOMESTIC AND STOCK ARTESIAN WELL IN ZONE 3 SAND OF MIOCENE AGE, DIAM 4 IN., DEPTH 2,135 FT, SCREENED 2,106-2,135. MP 3/8-IN. HOLE IN TOP OF WELL SEAL, 1.28 FT ABOVE LSD.
 LSD 165 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 54.56 BELOW LSD, SEP. 13, 1960.
 LOWEST WATER LEVEL 87.97 BELOW LSD, JAN. 30, 1989.
 RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	84.83	FEB. 22, 1990	82.63	APR. 10, 1990	83.31	JULY 2, 1990	84.37

SEE FOOTNOTES AT END OF TABLE.

ST. JAMES PARISH

300024090433501 LOCAL WELL NUMBER: SJ-86

OWNER: RICHARD J. BRAZAN. (SEC. 20, T. 12S., R. 17E.) DRILLED UNUSED ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN., DEPTH 290 FT, SCREENED 280-290. MP TOP OF 2-IN. NIPPLE EXTENDING FROM TOP OF CASING COLLAR, 1.44 FT ABOVE LSD.

LSD 18.3 FT ABOVE NGVD.

HIGHEST WATER LEVEL 3.79 BELOW LSD, MAY 21, 1979.

LOWEST WATER LEVEL 19.00 BELOW LSD, OCT. 31, 1963.

RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1989	16.10	JAN. 18, 1990	15.08	APR. 5, 1990	6.37	JULY 25, 1990	8.19

300445090520301 LOCAL WELL NUMBER: SJ-203

OWNER: RIVER ROAD FARM SUPPLY CO. (SEC. 38, T. 11S., R. 3E.) DRILLED INDUSTRIAL ARTESIAN WELL IN THE NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN., DEPTH 444 FT, SCREENED 384-444. MP TOP OF CASING, 0.65 FT ABOVE LSD.

LSD 19 FT ABOVE NGVD.

HIGHEST WATER LEVEL 5.13 BELOW LSD, APR. 5, 1990.

LOWEST WATER LEVEL 18.74 BELOW LSD, MAR. 29, 1988.

RECORDS AVAILABLE 1975, 1985-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1989	16.15	JAN. 18, 1990	16.00	APR. 5, 1990	5.13	JULY 25, 1990	9.07

ST. JOHN THE BAPTIST PARISH

300234090390301 LOCAL WELL NUMBER: SJB-145

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 18, T. 12S., R. 18E.) DRILLED OBSERVATION ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN., DEPTH 315 FT, SCREENED 305-315. MP TOP OF 4-IN. CAP, 2.60 FT ABOVE LSD.

LSD 17.71 FT ABOVE NGVD.

HIGHEST WATER LEVEL 3.91 BELOW LSD, MAY 17, 1973.

LOWEST WATER LEVEL 21.34 BELOW LSD, JAN. 13, 1964.

RECORDS AVAILABLE 1962-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1989	19.41	JAN. 18, 1990	16.19	APR. 5, 1990	7.41	JULY 25, 1990	15.19

301247090245901 LOCAL WELL NUMBER: SJB-165

OWNER: CONSOLIDATED WW DIST NO. 1. (SEC. 5, T. 10S., R. 8E.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN COVINGTON AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 8 IN., DEPTH 3,000 FT, SCREENED 2,900-3,000. MP CENTER LINE OF SAMPLE FAUCET, 3.40 FT ABOVE LSD.

LSD 6.0 FT ABOVE NGVD.

HIGHEST WATER LEVEL 94.80 ABOVE LSD, SEP. 23, 1974.

LOWEST WATER LEVEL 60.40 ABOVE LSD, SEP. 27, 1990.

RECORDS AVAILABLE 1974, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 14, 1990	+66.90	SEP. 27, 1990	+60.40				

301336090244101 LOCAL WELL NUMBER: SJB-176

OWNER: ST JOHN THE BAPTIST PARISH. (SEC. 33, T. 9S., R. 8E.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN COVINGTON AQUIFER OF PLEISTOCENE AGE, DIAM 16 TO 10 IN., DEPTH 2,950 FT, SCREENED 2,822-2,950. MP CENTER LINE OF SAMPLE FAUCET, 2.94 FT ABOVE LSD.

LSD 5.4 FT ABOVE NGVD.

HIGHEST WATER LEVEL 72.19 ABOVE LSD, SEP. 16, 1985.

LOWEST WATER LEVEL 61.74 ABOVE LSD, SEP. 27, 1990.

RECORDS AVAILABLE 1985, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 14, 1990	+69.40	SEP. 27, 1990	+61.74				

SEE FOOTNOTES AT END OF TABLE.

ST. LANDRY PARISH

304116092083601 LOCAL WELL NUMBER: SL-179

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 40. T. 4S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 94 FT, SCREENED 91-94. MP TOP OF 1 1/4-IN. PIPE, 4.00 FT ABOVE LSD.

LSD 55.23 FT ABOVE NGVD.

HIGHEST WATER LEVEL 45.23 BELOW LSD, APR. 28, 1958.

LOWEST WATER LEVEL 57.99 BELOW LSD, OCT. 17, 1984.

RECORDS AVAILABLE 1958-72, 1974-79, 1981-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	55.48	APR. 3, 1990	55.33	AUG. 6, 1990	55.28	AUG. 24, 1990	55.21
JAN. 10, 1990	55.44						

ST. MARTIN PARISH

301304091424001 LOCAL WELL NUMBER: SMN-108

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36. T. 9S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 505 FT, SCREENED 500-505. MP TOP OF 2-IN. CASING, 3.0 FT ABOVE LSD.

LSD 11.34 FT ABOVE NGVD.

HIGHEST WATER LEVEL 3.54 ABOVE LSD, APR. 13, 1973.

LOWEST WATER LEVEL 9.13 BELOW LSD, NOV. 11, 1987.

RECORDS AVAILABLE 1965-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 29, 1989	7.11	MAR. 3, 1990	.53	SEP. 12, 1990	6.66		

301304091424002 LOCAL WELL NUMBER: SMN-109

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36. T. 9S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 375 FT, SCREENED 370-375. MP TOP OF 2-IN. CASING, 2.40 FT ABOVE LSD.

LSD 11.34 FT ABOVE NGVD.

HIGHEST WATER LEVEL 2.94 ABOVE LSD, FEB. 27, 1974.

LOWEST WATER LEVEL 10.38 BELOW LSD, NOV. 11, 1987.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	7.71	JAN. 11, 1990	7.36	APR. 5, 1990	1.08	SEP. 12, 1990	4.24
NOV. 29	7.68	MAR. 30	1.15	JULY 13	3.12		

300947091472102 LOCAL WELL NUMBER: SMN-134B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 47. T. 10S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 846 FT, SCREENED 836-846. MP TOP OF 2-IN. CASING, 3.50 FT ABOVE LSD.

LSD 20 FT ABOVE NGVD.

HIGHEST WATER LEVEL 10.42 BELOW LSD, JUNE 4, 1975.

LOWEST WATER LEVEL 17.00 BELOW LSD, OCT. 31, 1989.

RECORDS AVAILABLE 1975-79, 1981, 1983, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	17.00	JAN. 11, 1990	16.71	APR. 4, 1990	14.45	JULY 13, 1990	15.03

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

ST. MARY PARISH

294749091402302 LOCAL WELL NUMBER: SM-57L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 27, T. 14S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 1/2 IN., DEPTH 738 FT, SCREENED 728-738. MP TOP OF 1 1/2 IN. CASING, 1.94 FT ABOVE LSD.

LSD 8.72 FT ABOVE NGVD.

HIGHEST WATER LEVEL 7.54 BELOW LSD, AUG. 16, 1973.

LOWEST WATER LEVEL 11.93 BELOW LSD, OCT. 22, 1970.

RECORDS AVAILABLE 1964-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 28, 1989	10.54	NOV. 29, 1989	10.73	MAR. 29, 1990	9.80	SEP. 11, 1990	10.05

294749091402301 LOCAL WELL NUMBER: SM-57U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 27, T. 14S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 638 FT, SCREENED 628-638. MP TOP OF 1 1/2 IN. PIPE, 1.66 FT ABOVE LSD.

LSD 8.72 FT ABOVE NGVD.

HIGHEST WATER LEVEL 6.40 BELOW LSD, APR. 15, 1965.

LOWEST WATER LEVEL 10.25 BELOW LSD, DEC. 20, 1976.

RECORDS AVAILABLE 1964-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 28, 1989	9.82	MAR. 29, 1990	8.55	SEP. 11, 1990	8.86		

ST. TAMMANY PARISH

302055090014601 LOCAL WELL NUMBER: ST-12

OWNER: LOUISIANA OFFICE OF STATE PARKS. (SEC. 37, T. 8S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN BIG BRANCH AQUIFER (ZONE 1) OF PLEISTOCENE AGE, DIAM 6 IN., DEPTH 1,525 FT, SCREENED INTERVAL UNKNOWN. MP CENTER LINE OF 4-IN. TEE, 2.30 FT BELOW LSD.

LSD 10 FT ABOVE NGVD.

HIGHEST WATER LEVEL 55.90 ABOVE LSD, JULY 25, 1940.

LOWEST WATER LEVEL 23.40 ABOVE LSD, JULY 14, 1989.

RECORDS AVAILABLE 1939-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	+26.50	FEB. 23, 1990	+28.20	APR. 11, 1990	+28.20	JULY 2, 1990	+27.70

301536089470501 LOCAL WELL NUMBER: ST-563

OWNER: CITY OF SLIDELL. (SEC. 15, T. 9S., R. 14E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SLIDELL AQUIFER (ZONE 2) OF PLEISTOCENE AGE, DIAM 10 IN., DEPTH 2,411 FT, SCREENED 2,262-2,411. MP CENTER LINE OF FAUCET ON TEE AT WELL HEAD, 4.40 FT ABOVE LSD. PRIOR TO APR. 11, 1990, MP CENTER LINE OF FAUCET ON DISCHARGE LINE, 3.5 FT ABOVE LSD.

LSD 10.24 FT ABOVE NGVD.

HIGHEST WATER LEVEL 118.90 ABOVE LSD, JUNE 12, 1958.

LOWEST WATER LEVEL 54.50 ABOVE LSD, OCT. 9, 1985.

RECORDS AVAILABLE 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	+57.50	JAN. 23, 1990	+55.50	APR. 11, 1990	+59.90	JULY 3, 1990	+57.90

SEE FOOTNOTES AT END OF TABLE.

ST. TAMMANY PARISH--Continued

301920089560801 LOCAL WELL NUMBER: ST-576

OWNER: HOLY REDEEMER COLLEGE. (SEC. 43, T. 8S., R. 13E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SLIDELL AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 7 IN., DEPTH 2,334 FT, SCREENED 2,238-2,334. MP CENTER LINE OF FAUCET ON DISCHARGE LINE, 2.00 FT ABOVE LSD.

LSD 17 FT ABOVE NGVD.

HIGHEST WATER LEVEL 108.00 ABOVE LSD, FEB. 23, 1961.

LOWEST WATER LEVEL 54.00 ABOVE LSD, JAN. 24, 1990, JULY 2, 1990.

RECORDS AVAILABLE 1961, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	+55.00	JAN. 24, 1990	+54.00	APR. 11, 1990	+57.00	JULY 2, 1990	+54.00

301838089485002 LOCAL WELL NUMBER: ST-776

OWNER: LOUISIANA NATIONAL GUARD. (SEC. 32, T. 8S., R. 14E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN LOWER PONCHATOUA AQUIFER (ZONE 1) OF PLIOCENE AGE, DIAM 8 TO 4 IN., DEPTH 887 FT, SCREENED 862-887. MP TOP OF CASING, 3.10 FT ABOVE LSD.

LSD 16 FT ABOVE NGVD.

HIGHEST WATER LEVEL 8.60 ABOVE LSD, APR. 11, 1990.

LOWEST WATER LEVEL 5.50 ABOVE LSD, JULY 3, 1990.

RECORDS AVAILABLE 1982, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	+5.90	APR. 11, 1990	+8.60	JUNE 20, 1990	+6.40	JULY 3, 1990	+5.50

TANGIPAHOA PARISH

304550090304101 LOCAL WELL NUMBER: TA-260

OWNER: TOWN OF ROSELAND. (SEC. 28, T. 3S., R. 7E.) DRILLED UNUSED PUBLIC-SUPPLY ARTESIAN WELL IN AMITE AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 4 IN., DEPTH 2,013 FT, SCREENED 1,951-2,013. MP TOP OF 3/4-IN. VALVE, 3.65 FT ABOVE LSD.

LSD 130.86 FT ABOVE NGVD.

HIGHEST WATER LEVEL 34.65 ABOVE LSD, MAY 5, 1953.

LOWEST WATER LEVEL 29.36 BELOW LSD, OCT. 31, 1989.

RECORDS AVAILABLE 1953-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	29.36	FEB. 22, 1990	28.80	APR. 10, 1990	28.87	JULY 2, 1990	28.84

302957090274001 LOCAL WELL NUMBER: TA-268

OWNER: CITY OF HAMMOND. (SEC. 25, T. 6S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN HAMMOND AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 8 IN., DEPTH 2,449 FT, SCREENED 2,365-2,449. MP CENTER LINE OF FAUCET ON DISCHARGE LINE, 2.70 FT ABOVE LSD.

LSD 35 FT ABOVE NGVD.

HIGHEST WATER LEVEL 120.60 ABOVE LSD, JAN. 25, 1957.

LOWEST WATER LEVEL 14.30 ABOVE LSD, OCT. 18, 1988.

RECORDS AVAILABLE 1957-85, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	+26.70	FEB. 1, 1990	+22.00	JUNE 8, 1990	+17.70	JULY 3, 1990	+17.20

302519090311401 LOCAL WELL NUMBER: TA-273

OWNER: DOMINICAN SISTERS CONVENT. (SEC. 44, T. 7S., R. 7E.) DRILLED DOMESTIC ARTESIAN WELL IN TCHEFUNCTA AQUIFER (ZONE 2) OF MIOCENE AGE, DIAM 3 IN., DEPTH 2,329 FT, SCREENED 2,289-2,329. MP CENTER LINE OF TEE, 2.50 FT ABOVE LSD.

LSD 11 FT ABOVE NGVD.

HIGHEST WATER LEVEL 127.20 ABOVE LSD, APR. 12, 1960, MAY 17, 1960.

LOWEST WATER LEVEL 81.50 ABOVE LSD, SEP. 14, 1989.

RECORDS AVAILABLE 1960-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	+83.50	JAN. 23, 1990	+82.00	APR. 11, 1990	+84.00	JULY 3, 1990	+83.00

SEE FOOTNOTES AT END OF TABLE.

TANGIPAHOA PARISH--Continued

303420090221701 LOCAL WELL NUMBER: TA-278

OWNER: RAY DUNNINGTON. (SEC. 35, T. 5S., R. 8E.) DRILLED DOMESTIC AND STOCK ARTESIAN WELL IN COVINGTON AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 IN., DEPTH 1,430 FT, SCREENED 1,410-1,430. MP TOP OF CASING, 2.00 FT ABOVE LSD.

LSD 52 FT ABOVE NGVD.

HIGHEST WATER LEVEL 87.80 ABOVE LSD, JAN. 14, 1961,

LOWEST WATER LEVEL 57.00 ABOVE LSD, OCT. 31, 1989.

RECORDS AVAILABLE 1961, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	+57.00	FEB. 22, 1990	+58.50	APR. 10, 1990	+58.50	JULY 3, 1990	+58.50

303104090335901 LOCAL WELL NUMBER: TA-343

OWNER: HAMMOND STATE SCHOOL. (SEC. 24, T. 6S., R. 6E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN HAMMOND AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 8 IN., DEPTH 2,442 FT, SCREENED 2,402-2,442. MP CENTER LINE OF FAUCET ON BEND OF 8-IN. PIPE, 1.83 FT ABOVE LSD.

LSD 42 FT ABOVE NGVD.

HIGHEST WATER LEVEL 87.43 ABOVE LSD, MAY 19, 1969,

LOWEST WATER LEVEL 37.33 ABOVE LSD, SEP. 14, 1989.

RECORDS AVAILABLE 1969, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	+39.53	FEB. 27, 1990	+40.33	APR. 10, 1990	+40.83	JULY 3, 1990	+39.33

305434090264201 LOCAL WELL NUMBER: TA-440

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 47, T. 2S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN KENTWOOD AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 IN., DEPTH 603 FT, SCREENED 593-603. MP TOP OF 2-IN. GALV. PIPE, 2.15 FT ABOVE LSD.

LSD 220 FT ABOVE NGVD.

HIGHEST WATER LEVEL 1.61 BELOW LSD, SEP. 24, 1975,

LOWEST WATER LEVEL 7.22 BELOW LSD, OCT. 23, 1986.

RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	4.57	JAN. 24, 1990	5.74	APR. 10, 1990	3.27	JULY 2, 1990	3.05

305604090312101 LOCAL WELL NUMBER: TA-454

OWNER: TOWN OF KENTWOOD. (SEC. 29, T. 1S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN KENTWOOD AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 12 IN., DEPTH 720 FT, SCREENED 640-720. MP TOP OF 3/8-IN. BREATHER PIPE, 2.24 FT ABOVE LSD.

LSD 260 FT ABOVE NGVD.

HIGHEST WATER LEVEL 73.19 BELOW LSD, OCT. 31, 1989.

LOWEST WATER LEVEL 84.41 BELOW LSD, JULY 2, 1990.

RECORDS AVAILABLE 1983, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	73.19	FEB. 2, 1990	79.61	APR. 10, 1990	83.59	JULY 2, 1990	84.41

TENSAS PARISH

320431091144801 LOCAL WELL NUMBER: TS-8

OWNER: E.R. McDONALD. (SEC. 4, T. 13N., R. 12E.) DRILLED UNUSED SEMI-ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN., DEPTH 110 FT, SCREENED 80-110. MP TOP OF CASING, 1.00 FT ABOVE LSD.

LSD 79.6 FT ABOVE NGVD.

HIGHEST WATER LEVEL 2.05 BELOW LSD, MAY 30, 1979,

LOWEST WATER LEVEL 17.78 BELOW LSD, JUNE 11, 1987.

RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	13.30	JAN. 9, 1990	13.14	APR. 25, 1990	9.92	JULY 10, 1990	13.08

SEE FOOTNOTES AT END OF TABLE.

UNION PARISH

324417092090001 LOCAL WELL NUMBER: UN-26

OWNER: MANVILLE FOREST PRODUCTS. (SEC. 10, T. 20N., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 8 IN., DEPTH 745 FT, SCREENED 670-745. MP 3/4-IN. HOLE IN TOP OF WELL COVER, 1.90 FT ABOVE LSD.

LSD 133.92 FT ABOVE NGVD.

HIGHEST WATER LEVEL 141.11 BELOW LSD, JULY 26, 1959.

LOWEST WATER LEVEL 180.42 BELOW LSD, DEC. 10, 1981.

RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	178.25	JAN. 9, 1990	178.03	APR. 2, 1990	176.88	JULY 27, 1990	177.77

VERMILION PARISH

295031092203202 LOCAL WELL NUMBER: VE-630U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 10, T. 14S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN., DEPTH 498 FT, SCREENED 488-498. MP TOP OF 2-IN. CASING, 2.00 FT ABOVE LSD.

LSD 4.75 FT ABOVE NGVD.

HIGHEST WATER LEVEL 7.15 BELOW LSD, MAR. 5, 1968.

LOWEST WATER LEVEL 14.99 BELOW LSD, SEP. 7, 1990.

RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 27, 1989	10.41	MAR. 29, 1990	8.83	SEP. 7, 1990	14.99		

295345092100703 LOCAL WELL NUMBER: VE-637L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 15, T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN., DEPTH 243 FT, SCREENED 233-243. MP TOP OF 1-IN. PIPE, 2.66 FT ABOVE LSD.

LSD 4.06 FT ABOVE NGVD.

HIGHEST WATER LEVEL 8.10 BELOW LSD, FEB. 24, 1966.

LOWEST WATER LEVEL 15.11 BELOW LSD, JUNE 25, 1970.

RECORDS AVAILABLE 1964-83, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 28, 1989	11.07	MAR. 29, 1990	9.52	SEP. 7, 1990	12.24		

295345092100702 LOCAL WELL NUMBER: VE-637U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 15, T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN., DEPTH 198 FT, SCREENED 188-198. MP TOP OF 1-IN. PIPE, 2.66 FT ABOVE LSD.

LSD 4.06 FT ABOVE NGVD.

HIGHEST WATER LEVEL 7.99 BELOW LSD, FEB. 24, 1966.

LOWEST WATER LEVEL 13.51 BELOW LSD, JUNE 9, 1971.

RECORDS AVAILABLE 1964-83, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1989	11.67	JAN. 11, 1990	10.18	JULY 10, 1990	11.50	SEP. 7, 1990	11.19
NOV. 28	10.75	APR. 5	9.38				

293845092264901 LOCAL WELL NUMBER: VE-639

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 16S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 608 FT, SCREENED 603-608. MP TOP OF 2-IN. CASING, 3.00 FT ABOVE LSD.

LSD 5.84 FT ABOVE NGVD.

HIGHEST WATER LEVEL 6.22 BELOW LSD, OCT. 20, 1965.

LOWEST WATER LEVEL 9.65 BELOW LSD, OCT. 29, 1976.

RECORDS AVAILABLE 1965-79, 1981, 1983-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 22, 1989	8.75	MAR. 28, 1990	8.94	SEP. 7, 1990	9.13		

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

VERNON PARISH

310251093125501 LOCAL WELL NUMBER: V-108

OWNER: U.S. ARMY, FORT POLK. (SEC. 20, T. 1N., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 8 IN., DEPTH 675 FT, SCREENED 640-675. MP TOP OF CASING, 1.50 FT ABOVE LSD.
 LSD 305.27 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 143.26 BELOW LSD, JULY 10, 1961,
 LOWEST WATER LEVEL 214.14 BELOW LSD, JULY 25, 1981.
 RECORDS AVAILABLE 1941, 1943, 1958-61, 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	174.57H	DEC. 31, 1989	172.99	APR. 5, 1990	172.74	JULY 5, 1990	173.38
OCT. 5	174.57	JAN. 4, 1990	172.52J	APR. 10	173.80	JULY 10	174.75
OCT. 10	174.26	JAN. 5	172.50	APR. 12	174.44J	JULY 15	174.88
OCT. 15	174.82	JAN. 10	170.84	APR. 15	174.71	JULY 20	175.32
OCT. 17	174.89J	JAN. 15	171.30	APR. 20	173.30	JULY 25	175.34H
OCT. 20	174.53	JAN. 20	171.14	APR. 24	173.03H	JULY 31	175.21
OCT. 25	174.14	JAN. 25	170.93	APR. 25	173.06	AUG. 5	174.61
OCT. 31	173.33	JAN. 31	170.84	APR. 30	172.57	AUG. 10	174.44
NOV. 5	172.79	FEB. 5	171.51	MAY 5	172.50	AUG. 15	174.22
NOV. 10	172.63	FEB. 10	171.94	MAY 10	172.22	AUG. 20	173.61
NOV. 15	172.18	FEB. 15	172.29	MAY 15	172.44	AUG. 25	173.22
NOV. 20	171.87	FEB. 20	172.37	MAY 20	172.19	AUG. 31	173.90
NOV. 25	171.27J	FEB. 25	172.49	MAY 25	172.37	SEP. 5	173.59
NOV. 29	172.14H	FEB. 28	172.53	MAY 31	172.02J	SEP. 10	173.86
NOV. 30	172.20	MAR. 5	172.48	JUNE 5	172.45	SEP. 15	173.31
DEC. 5	172.05	MAR. 10	172.63	JUNE 10	172.53	SEP. 20	171.68
DEC. 10	172.41	MAR. 15	172.45	JUNE 15	172.68	SEP. 22	170.87J
DEC. 15	172.28	MAR. 20	172.54	JUNE 20	172.98	SEP. 25	172.03
DEC. 20	172.43	MAR. 25	172.70	JUNE 25	173.20	SEP. 30	171.84
DEC. 25	173.22	MAR. 31	172.62	JUNE 30	173.44		

305850093260801 LOCAL WELL NUMBER: V-196

OWNER: LUTCHER MOORE LUMBER CO. (SEC. 18, T. 1S., R. 10W.) DRILLED IRRIGATION ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN., DEPTH 503 FT, SCREENED 450-503. MP TOP OF VENT PIPE, 2.00 FT ABOVE LSD.
 LSD 243 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 99.00 BELOW LSD, APR. 7, 1955,
 LOWEST WATER LEVEL 132.40 BELOW LSD, DEC. 10, 1987.
 RECORDS AVAILABLE 1955, 1986-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1989	125.97	JAN. 4, 1990	126.80	APR. 23, 1990	124.57	JULY 25, 1990	125.56
NOV. 15	126.43						

310625093133501 LOCAL WELL NUMBER: V-204

OWNER: U.S. ARMY, FORT POLK. (SEC. 31, T. 2N., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 18 IN., DEPTH 1,100 FT, SCREENED 1,012-1,100. MP TOP OF CASING, 1.30 FT ABOVE LSD.
 LSD 303 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 146.68 BELOW LSD, JAN. 30, 1986,
 LOWEST WATER LEVEL 158.80 BELOW LSD, SEP. 8, 1990.
 RECORDS AVAILABLE 1986-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	154.50H	JAN. 5, 1990	155.83	APR. 10, 1990	152.96	JULY 10, 1990	157.14
OCT. 5	154.44	JAN. 10	155.73	APR. 15	152.71	JULY 15	157.08
OCT. 10	154.44	JAN. 15	155.75	APR. 16	152.66J	JULY 20	157.25
OCT. 15	154.30	JAN. 20	155.45	APR. 20	152.81	JULY 23	157.47J
OCT. 20	154.33	JAN. 25	155.23	APR. 24	152.93H	JULY 25	157.25
OCT. 25	154.60	JAN. 31	155.06	APR. 25	152.95	JULY 26	157.18J
OCT. 31	154.55	FEB. 5	154.86	APR. 30	152.95	JULY 31	157.67
NOV. 5	154.46	FEB. 8	154.38H	MAY 5	153.11	AUG. 5	157.87
NOV. 10	154.37	FEB. 10	154.12	MAY 10	152.83	AUG. 10	158.01
NOV. 15	154.30	FEB. 15	153.81	MAY 15	152.85	AUG. 15	157.94
NOV. 16	154.34H	FEB. 20	153.63	MAY 20	153.49	AUG. 20	158.11
NOV. 20	154.36	FEB. 25	153.67	MAY 25	153.83	AUG. 25	158.13
NOV. 25	154.20	FEB. 28	153.67	MAY 31	153.81	AUG. 31	158.69
NOV. 30	154.18	MAR. 5	153.28	JUNE 5	153.72	SEP. 5	158.65
DEC. 5	154.18	MAR. 10	153.35	JUNE 10	154.28	SEP. 8	158.80J
DEC. 10	154.17	MAR. 15	153.32	JUNE 15	154.71	SEP. 10	158.72
DEC. 15	154.23	MAR. 20	153.32	JUNE 20	154.24	SEP. 15	158.28
DEC. 20	154.12	MAR. 25	153.15	JUNE 25	155.83	SEP. 20	158.32H
DEC. 25	154.52	MAR. 31	152.77	JUNE 30	156.09	SEP. 25	157.74
DEC. 28	156.13J	APR. 5	152.96	JULY 5	156.53	SEP. 30	158.26
DEC. 31	155.99						

SEE FOOTNOTES AT END OF TABLE.

VERNON PARISH--Continued

311201093080202 LOCAL WELL NUMBER: V-426

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36, T. 3N., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN., DEPTH 915 FT, SCREENED 905-915. MP TOP OF BUSHING, 2.60 FT ABOVE LSD.

LSD 305 FT ABOVE NGVD.

HIGHEST WATER LEVEL 112.08 BELOW LSD, NOV. 21, 1969.

LOWEST WATER LEVEL 142.52 BELOW LSD, JULY 12, 1990.

RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	141.62	JAN. 4, 1990	142.35	APR. 24, 1990	142.03	JULY 12, 1990	142.52
NOV. 20	141.98						

311544093002502 LOCAL WELL NUMBER: V-428

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 3N., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN., DEPTH 925 FT, SCREENED 915-925. MP TOP OF BUSHING, 2.00 FT ABOVE LSD.

LSD 290 FT ABOVE NGVD.

HIGHEST WATER LEVEL 100.97 BELOW LSD, MAY 2, 1968.

LOWEST WATER LEVEL 120.73 BELOW LSD, JULY 12, 1990.

RECORDS AVAILABLE 1967-80, 1983-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	118.19	JAN. 4, 1990	119.42	APR. 24, 1990	119.52	JULY 12, 1990	120.73
NOV. 28	117.66						

310708093100904 LOCAL WELL NUMBER: V-513

OWNER: U.S. ARMY, FORT POLK. (SEC. 27, T. 2N., R. 8W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN., DEPTH 1,275 FT, SCREENED 1,167-1,212 AND 1,245-1,275. MP TOP OF PVC DROP PIPE, 2.60 FT ABOVE LSD.

LSD 335 FT ABOVE NGVD.

HIGHEST WATER LEVEL 179.20 BELOW LSD, MAR. 12, 1986.

LOWEST WATER LEVEL 240.58 BELOW LSD, JULY 10, 1985.

RECORDS AVAILABLE 1985-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	186.37	JAN. 4, 1990	188.89	APR. 24, 1990	186.87	JULY 13, 1990	188.56
NOV. 16	185.90						

310657093095005 LOCAL WELL NUMBER: V-522

OWNER: U.S. ARMY, FORT POLK. (SEC. 35, T. 2N., R. 8W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN., DEPTH 588 FT, SCREENED 528-588. MP TOP OF CASING, 1.30 FT ABOVE LSD.

LSD 325 FT ABOVE NGVD.

HIGHEST WATER LEVEL 188.00 BELOW LSD, JULY 22, 1966.

LOWEST WATER LEVEL 217.48 BELOW LSD, APR. 29, 1987.

RECORDS AVAILABLE 1966, 1985-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	207.94	JAN. 4, 1990	204.82	APR. 23, 1990	206.77	JULY 13, 1990	209.68
NOV. 16	205.74						

SEE FOOTNOTES AT END OF TABLE.

WASHINGTON PARISH

304652089512201 LOCAL WELL NUMBER: WA-13

OWNER: GAYLORD CONTAINER CORP. (SEC. 38, T. 3S., R. 13E.) DRILLED UNUSED ARTESIAN WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 20 IN., DEPTH 156 FT, SCREENED 90-156. MP TOP EDGE OF RECORDER SHELTER SUBFLOOR, 1.30 FT ABOVE LSD.

LSD 95 FT ABOVE NGVD.

HIGHEST WATER LEVEL 1.30 ABOVE LSD, FEB. 22, 1961.

LOWEST WATER LEVEL 44.07 BELOW LSD, SEP. 22, 1958.

RECORDS AVAILABLE 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	17.06	FEB. 23, 1990	4.47	APR. 11, 1990	10.98C	JULY 2, 1990	11.25C

305515090194101 LOCAL WELL NUMBER: WA-91

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 1S., R. 9E.) DRILLED OBSERVATION ARTESIAN WELL IN KENTWOOD AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 IN., DEPTH 600 FT, SCREENED 580-600. MP TOP OF 2-IN. CASING, 0.20 FT ABOVE LSD.

LSD 240 FT ABOVE NGVD.

HIGHEST WATER LEVEL 11.19 BELOW LSD, OCT. 30, 1980.

LOWEST WATER LEVEL 18.36 BELOW LSD, OCT. 23, 1986.

RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 24, 1990	15.88						

305217089595001 LOCAL WELL NUMBER: WA-107

OWNER: LOUISIANA STATE UNIVERSITY. (SEC. 16, T. 2S., R. 12E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN ZONE 2 SAND OF PLIOCENE AGE, DIAM 4 IN., DEPTH 457 FT, SCREENED 441-457. MP TOP OF CASING, 0.64 FT ABOVE LSD.

LSD 260 FT ABOVE NGVD.

HIGHEST WATER LEVEL 76.09 BELOW LSD, APR. 6, 1989.

LOWEST WATER LEVEL 84.04 BELOW LSD, MAY 11, 1988.

RECORDS AVAILABLE 1975, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1990	81.94						

304612089512401 LOCAL WELL NUMBER: WA-158

OWNER: CITY OF BOGALUSA. (SEC. 38, T. 3S., R. 13E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN HAMMOND AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 12 3/4 IN., DEPTH 1,414 FT, SCREENED 1,337-1,414. MP TOP OF SANITARY SEAL, 1.63 FT ABOVE LSD.

LSD 97 FT ABOVE NGVD.

HIGHEST WATER LEVEL 53.00 BELOW LSD, MAY 18, 1987.

LOWEST WATER LEVEL 90.15 BELOW LSD, APR. 11, 1990.

RECORDS AVAILABLE 1987, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1989	76.28	FEB. 23, 1990	81.65	APR. 11, 1990	90.15	JULY 2, 1990	84.62

WEBSTER PARISH

325518093221901 LOCAL WELL NUMBER: WB-399

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 22N., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 298 FT, SCREENED 288-298. MP TOP OF BUSHING, 3.50 FT ABOVE LSD.

LSD 205 FT ABOVE NGVD.

HIGHEST WATER LEVEL 43.37 BELOW LSD, MAR. 11, 1987.

LOWEST WATER LEVEL 46.34 BELOW LSD, NOV. 3, 1980.

RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1989	44.68	JAN. 3, 1990	44.28	APR. 25, 1990	43.41	JULY 17, 1990	44.84

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS
WEST BATON ROUGE PARISH

397

302732091121901 LOCAL WELL NUMBER: WBR-5

OWNER: CITY OF PORT ALLEN. (SEC. 66, T. 7S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 8 IN., DEPTH 1,335 FT. SCREENED 1,230-1,335. MP TOP EDGE OF 3/8-IN. HOLE IN 8-IN. PLUG IN TEE ATOP CASING, 3.60 FT ABOVE LSD.
LSD 27 FT ABOVE NGVD.
HIGHEST WATER LEVEL 36.10 ABOVE LSD, JUNE 21, 1943.
LOWEST WATER LEVEL 112.62 BELOW LSD, AUG. 15, 1974.
RECORDS AVAILABLE 1943-46, 1949-50, 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 13, 1990	75.51	APR. 12, 1990	80.36	MAY 11, 1990	81.06	JULY 5, 1990	86.05

302613091121501 LOCAL WELL NUMBER: WBR-37

OWNER: BATON ROUGE PORT AUTHORITY. (SEC. 69, T. 7S., R. 12E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 14 TO 10 IN., DEPTH 1,356 FT. SCREENED 1,235-1,288, 1,318-1,335 AND 1,340-1,356. MP 1-IN. PLUG ATOP CASING, 0.50 FT ABOVE LSD.
LSD 27 FT ABOVE NGVD.
HIGHEST WATER LEVEL 31.93 BELOW LSD, FEB. 3, 1955.
LOWEST WATER LEVEL 112.25 BELOW LSD, OCT. 18, 1974.
RECORDS AVAILABLE 1955, 1969-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 15, 1990	77.04						

302546091131402 LOCAL WELL NUMBER: WBR-97B

OWNER: MRS. HUGHES. (SEC. 70, T. 7S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,200 FT. SCREENED 2,170-2,200. MP TOP EDGE OF 1/2-IN. HOLE IN CAP, 0.92 FT ABOVE LSD.
LSD 17 FT ABOVE NGVD.
HIGHEST WATER LEVEL 26.50 ABOVE LSD, JULY 22, 1964.
LOWEST WATER LEVEL 72.08 BELOW LSD, FEB. 20, 1985.
RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 13, 1990	50.71	APR. 12, 1990	49.84	MAY 11, 1990	50.53	JULY 5, 1990	51.24

302652091121401 LOCAL WELL NUMBER: WBR-100A

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 68, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,888 FT. SCREENED 1,884-1,888. MP TOP OF 4-IN. CASING, 1.50 FT ABOVE LSD.
LSD 29 FT ABOVE NGVD.
HIGHEST WATER LEVEL 58.30 BELOW LSD, MAY 6, 1966.
LOWEST WATER LEVEL 129.12 BELOW LSD, DEC. 20, 1976.
RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 12, 1990	97.16	JULY 9, 1990	95.96	SEP. 24, 1990	101.13		

302652091121402 LOCAL WELL NUMBER: WBR-100B

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 68, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,448 FT. SCREENED 2,444-2,448. MP TOP OF 2-IN. CASING, 2.06 FT ABOVE LSD.
LSD 29 FT ABOVE NGVD.
HIGHEST WATER LEVEL 87.97 BELOW LSD, MAY 17, 1966.
LOWEST WATER LEVEL 169.38 BELOW LSD, OCT. 23, 1980.
RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 1, 1989	134.92	MAY 11, 1990	134.59	JULY 9, 1990	143.06	SEP. 24, 1990	147.34
FEB. 13, 1990	126.47	MAY 30	138.42				

SEE FOOTNOTES AT END OF TABLE.

WEST BATON ROUGE PARISH--Continued

302726091145501 LOCAL WELL NUMBER: WBR-101

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 91, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,367 FT, SCREENED 1,363-1,367. MP TOP OF 3/8-IN. HOLE IN CAP, 1.02 FT ABOVE LSD.
 LSD 19 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 57.15 BELOW LSD, JUNE 13, 1990,
 LOWEST WATER LEVEL 79.73 BELOW LSD, OCT. 26, 1972.
 RECORDS AVAILABLE 1966-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 13, 1990	57.15	JULY 23, 1990	63.56	AUG. 29, 1990	60.95		

302806091172601 LOCAL WELL NUMBER: WBR-102A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 7, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,288 FT, SCREENED 1,284-1,288. MP TOP OF 4-IN. CASING, 1.71 FT ABOVE LSD. PRIOR TO MAY 30, 1990, MP TOP EDGE OF 3/8-IN. HOLE IN CAP, 2.35 FT ABOVE LSD.
 LSD 18 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 43.16 BELOW LSD, MAY 6, 1966,
 LOWEST WATER LEVEL 62.37 BELOW LSD, OCT. 26, 1972.
 RECORDS AVAILABLE 1966-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 11, 1990	44.24	MAY 30, 1990	43.63	JULY 5, 1990	46.44	AUG. 29, 1990	48.75

302806091172602 LOCAL WELL NUMBER: WBR-102B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 7, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,100 FT, SCREENED 2,096-2,100. MP TOP OF 2-IN. CASING, 2.07 FT ABOVE LSD. PRIOR TO JULY 5, 1990, MP TOP EDGE OF 3/8-IN. HOLE IN CAP, 2.35 ABOVE LSD.
 LSD 18 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 63.89 BELOW LSD, APR. 22, 1966,
 LOWEST WATER LEVEL 189.22 BELOW LSD, SEP. 25, 1973.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 13, 1990	142.19	MAY 11, 1990	146.98	JULY 5, 1990	150.94	AUG. 28, 1990	155.16
APR. 12	144.69						

302703091133703 LOCAL WELL NUMBER: WBR-106

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 93, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN., DEPTH 2,017 FT, SCREENED 2,012-2,017. MP TOP EDGE OF 3/4-IN. AIR LINE (REMOVE CASING EXTENSION), 2.08 FT ABOVE LSD.
 LSD 22 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 166.62 BELOW LSD, JULY 28, 1966,
 LOWEST WATER LEVEL 288.20 BELOW LSD, NOV. 8, 1973.
 RECORDS AVAILABLE 1966-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 31, 1990	219.90	JULY 5, 1990	216.01				

302550091124101 LOCAL WELL NUMBER: WBR-111

OWNER: CITY OF PLAQUEMINE. (SEC. 70, T. 7S., R. 12E.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 16 TO 10 TO 8 IN., DEPTH 2,650 FT, SCREENED 2,610-2,650. MP TOP OF 8-IN. CASING, 1.35 FT ABOVE LSD.
 LSD 25 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 43.50 ABOVE LSD, JAN. 15, 1970,
 LOWEST WATER LEVEL 37.70 BELOW LSD, MAY 17, 1971.
 RECORDS AVAILABLE 1970-71, 1974, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 30, 1990	+21.68	JULY 5, 1990	+19.85				

SEE FOOTNOTES AT END OF TABLE.

WEST BATON ROUGE PARISH--Continued

302853091150201 LOCAL WELL NUMBER: WBR-146

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 119, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 1/2 IN., DEPTH 472 FT, SCREENED 462-472. MP TOP OF 2 1/2-IN. COLLAR, AT LSD.
 LSD 25 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 10.54 ABOVE LSD, APR. 27, 1979.
 LOWEST WATER LEVEL 20.60 BELOW LSD, OCT. 24, 1988.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 13, 1990	+1.99	APR. 13, 1990	+2.84	MAY 11, 1990	+2.39	JULY 5, 1990	+3.45

302559091122001 LOCAL WELL NUMBER: WBR-147

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 70, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,000-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 1/2 IN., DEPTH 1,292 FT, SCREENED 1,282-1,292. MP TOP OF 2 1/2-IN. COLLAR, 1.23 FT ABOVE LSD.
 LSD 27 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 30.43 BELOW LSD, JUNE 15, 1990.
 LOWEST WATER LEVEL 45.37 BELOW LSD, MAY 8, 1980.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 3, 1990	32.57	JUNE 15, 1990	30.43	SEP. 21, 1990	33.31		

302702091185101 LOCAL WELL NUMBER: WBR-148

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 23, T. 7S., R. 11E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 1/2 IN., DEPTH 1,304 FT, SCREENED 1,294-1,304. MP TOP OF 2 1/2-IN. CASING, AT LSD.
 LSD 14 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 36.93 BELOW LSD, FEB. 13, 1990.
 LOWEST WATER LEVEL 53.42 BELOW LSD, JAN. 18, 1979.
 RECORDS AVAILABLE 1978-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 1, 1989	39.76	APR. 12, 1990	37.53	JULY 5, 1990	40.07	SEP. 24, 1990	43.19
FEB. 13, 1990	36.93	MAY 11	38.52				

302958091124801 LOCAL WELL NUMBER: WBR-160

OWNER: WEST BATON ROUGE GAS AND WATER SYSTEM. (SEC. 50, T. 6S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("800-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 840 FT, SCREENED 830-840. MP 1/2-IN. HOLE IN TOP OF CAP, 2.40 FT ABOVE LSD.
 LSD 26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 47.10 BELOW LSD, JULY 15, 1980.
 LOWEST WATER LEVEL 112.70 BELOW LSD, OCT. 9, 1981.
 RECORDS AVAILABLE 1980-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 13, 1990	71.36	APR. 12, 1990	66.12	MAY 11, 1990	63.42	JULY 5, 1990	68.51

302958091124802 LOCAL WELL NUMBER: WBR-161

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 50, T. 6S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 650 FT, SCREENED 640-650. MP HOLE IN TOP OF CAP, 2.00 FT ABOVE LSD.
 LSD 26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 19.86 BELOW LSD, JULY 5, 1990.
 LOWEST WATER LEVEL 63.75 BELOW LSD, SEP. 19, 1979.
 RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 13, 1990	25.19	APR. 12, 1990	22.78	MAY 11, 1990	22.18	JULY 5, 1990	19.86

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

WEST CARROLL PARISH

324508091252302 LOCAL WELL NUMBER: WC-230

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 20N., R. 10E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 1/4 IN., DEPTH 87 FT, SCREENED 84-87. MP TOP OF CASING, 3.0 FT ABOVE LSD.
 LSD 120.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 28.19 BELOW LSD, JULY 17, 1990,
 LOWEST WATER LEVEL 30.21 BELOW LSD, MAR. 20, 1990.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 20, 1990	30.21	APR. 2, 1990	29.90	JULY 17, 1990	28.19		

WEST FELICIANA PARISH

305643091341201 LOCAL WELL NUMBER: WF-22D

OWNER: LOUISIANA STATE PENITENTIARY. (SEC. 53, T. 1S., R. 5W.) DRILLED UNUSED ARTESIAN WELL IN ZONE 3 AQUIFER OF MIOCENE AGE, DIAM 12 TO 8 IN., DEPTH 907 FT, SCREENED 847-907. MP (FLOWING CONDITIONS) TOP OF IRON COVER PLATE, 0.50 FT ABOVE LSD. MP (NONFLOWING CONDITIONS) TOP OF 3/4-IN. 1 1/2-IN. BUSHING, 0.69 FT ABOVE LSD.
 LSD 60 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 15.90 ABOVE LSD, APR. 3, 1959,
 LOWEST WATER LEVEL 11.29 BELOW LSD, OCT. 25, 1988.
 RECORDS AVAILABLE 1956, 1958-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 20, 1990	6.55	AUG. 6, 1990	9.97				

305633091341601 LOCAL WELL NUMBER: WF-40

OWNER: LOUISIANA STATE PENITENTIARY. (SEC. 24, T. 1S., R. 5W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN ZONE 2 AQUIFER OF PLIOCENE-MIOCENE AGE, DIAM 12 IN., REPORTED DEPTH 632 FT, SCREENED 549-632. MP TOP INSIDE EDGE OF 2-IN. ELBOW ATOP CASING, 2.85 FT ABOVE LSD.
 LSD 50 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 23.90 ABOVE LSD, MAY 8, 1958,
 LOWEST WATER LEVEL 11.16 BELOW LSD, AUG. 6, 1990.
 RECORDS AVAILABLE 1956, 1958-59, 1963-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 6, 1990	11.16						

304935091221001 LOCAL WELL NUMBER: WF-188

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 69, T. 2S., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1 1/4 IN., DEPTH 55 FT, SCREENED 52-55. MP TOP OF 1 1/4-IN. CASING, 0.20 FT ABOVE LSD.
 LSD 117 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 11.72 BELOW LSD, JUNE 7, 1990,
 LOWEST WATER LEVEL 16.68 BELOW LSD, JULY 9, 1963.
 RECORDS AVAILABLE 1960-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 7, 1990	11.72	AUG. 6, 1990	12.12				

304704091223801 LOCAL WELL NUMBER: WF-222

OWNER: TOWN OF ST. FRANCISVILLE. (SEC. 68, T. 3S., R. 3W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 IN., DEPTH 1,526 FT, SCREENED 1,446-1,526. MP PLUG ON FLANGE, 1.23 FT ABOVE LSD.
 LSD 140 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 59.64 BELOW LSD, APR. 16, 1962,
 LOWEST WATER LEVEL 133.95 BELOW LSD, JAN. 27, 1982.
 RECORDS AVAILABLE 1961-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1989	106.03	FEB. 28, 1990	110.12	JUNE 8, 1990	113.58	AUG. 6, 1990	115.41

SEE FOOTNOTES AT END OF TABLE.

WINN PARISH

315525092375601 LOCAL WELL NUMBER: W-16

OWNER: CITY OF WINNFELD. (SEC. 24, T. 11N., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 8 IN., DEPTH 583 FT, SCREENED 553-583. MP TOP OF BUSHING, 0.20 FT ABOVE LSD. PRIOR TO JAN. 12, 1990, MP TOP OF CASING, AT LSD.
 LSD 135 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 48.00 BELOW LSD, MAY 27, 1952.
 LOWEST WATER LEVEL 85.05 BELOW LSD, JUNE 20, 1970.
 RECORDS AVAILABLE 1952, 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1989	62.90	JAN. 12, 1990	59.87	APR. 3, 1990	61.48	JULY 20, 1990	68.94

315450092310102 LOCAL WELL NUMBER: W-144B

OWNER: LOUISIANA DEPT. OF TRANSPORTATION AND DEVELOPMENT. (SEC. 19, T. 11N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 550 FT, SCREENED 540-550. MP TOP OF CASING, 1.00 FT ABOVE LSD.
 LSD 140 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 28.50 BELOW LSD, MAR. 5, 1986.
 LOWEST WATER LEVEL 58.33 BELOW LSD, NOV. 5, 1971.
 RECORDS AVAILABLE 1971-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1990	32.10	SEP. 27, 1990	31.90				

320541092291601 LOCAL WELL NUMBER: W-172

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 20, T. 13N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 655 FT, SCREENED 645-655. MP TOP OF BUSHING, 3.70 FT ABOVE LSD.
 LSD 140 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 81.68 BELOW LSD, MAR. 2, 1979.
 LOWEST WATER LEVEL 85.87 BELOW LSD, JULY 20, 1990.
 RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1989	85.24	JAN. 12, 1990	85.40	APR. 3, 1990	85.29	JULY 20, 1990	85.87

* Measuring point.
 + Above land-surface datum.
 C Nearby well or wells being pumped.
 H Tape measurement (recorder).
 J Recorder measurement for a time other than noon.
 R Measurement reported.

QUALITY OF GROUND WATER

PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1989 TO SEPTEMBER 1990

[See end of complete chemical analyses table for explanation of
geologic unit (aquifer) codes]

WELL NO.	LOCATION			STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE, FIELD (µS/CM)	SPE- CIFIC CON- DUCT- ANCE, LAB (µS/CM)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
	T.	R.	SEC.								
ACADIA PARISH											
AC- 452	10S	1W	34	300742092265901	112CHCTU	246	04-04-90 09-11-90	1430 0930	-- --	812 831	48 54
AVOYELLES PARISH											
AV- 141	2S	3E	4	305451092095901	112ALVL	76	06-28-90	1300	777	--	12
AV- 144	2S	4E	26	305115092002301	112ALVL	71	06-28-90	1500	255	--	12
AV- 155	1S	3E	11	305843092075601	112ALVL	41	06-27-90	1400	984	--	86
CALCASIEU PARISH											
CU- 615	10S	9W	4	301338093172801	11205LC	533	12-29-89 04-04-90 09-04-90	0915 1015 1530	-- -- --	760 744 754	140 130 130
CU- 694	10S	9W	19	301044093195101	11205LC	556	11-16-89 04-04-90 09-06-90	1500 0900 0900	-- -- --	1630 1710 1590	380 290 340
CU- 767	10S	8W	20	301036093124401	11207LC	850	11-16-89 03-27-90 09-06-90	0930 1200 1145	-- -- --	2930 2960 2980	800 780 750
CU- 771	10S	9W	5	301336093183002	11202LC	241	11-16-89 03-27-90 09-06-90	1330 1000 0930	-- -- --	423 426 425	17 17 16
CU- 787	11S	10W	36	300353093210201	11205LC	734	11-21-89 03-27-90 09-05-90	0930 1530 1130	-- -- --	521 518 524	48 46 47
CAMERON PARISH											
CN- 80U	12S	3W	24	295846092381104	112CHCTU	453	11-21-89 03-28-90 09-06-90	1700 1100 1500	-- -- --	1250 1270 1270	240 240 240
CN- 86L	12S	12W	13	300120093320802	11205LC	641	11-20-89 04-03-90 09-05-90	1430 1345 0900	-- -- --	1870 1880 1890	440 430 420
CN- 88L	12S	8W	14	300055093093004	11205LC	804	11-21-89 03-28-90 09-05-90	1300 0845 1400	-- -- --	2310 2310 2320	560 540 540
CONCORDIA PARISH											
CO- 205	5N	8E	4	312614091400001	112MRVA	130	01-05-90 03-14-90 09-26-90	1200 1330 1030	773 812 818	-- -- --	21 20 20
CO- 212	5N	8E	3	312614091381001	112WMCK	205	11-21-89	1500	9300	--	2850
CO- 214	5N	8E	11	312548091371001	112WMCK	192	11-21-89	1615	13000	--	4350
CO- 215	5N	8E	3	312630091390001	112MRVA	121	11-21-89 09-26-90	1315 1110	3320 3480	-- --	830 860
EAST BATON ROUGE PARISH											
EB- 151	7S	1E	82	302641091085801	12223BR	2658	05-08-90	1245	--	356	2.6
EB- 298	7S	1E	81	302638091090801	12112BR	1387	12-18-89 09-25-90	1003 1607	-- --	379 383	1.8 2.1
EB- 413	7S	1E	81	302642091083201	12115BR	1745	01-18-90 05-08-90	1430 1315	-- --	320 334	2.8 3.0
EB- 434	7S	1W	49	302619091104003	11206BR	611	12-15-89 09-20-90	1255 1747	-- --	483 487	66 67
EB- 444	7S	1W	48	302655091112401	12220BR	2172	06-26-90	0915	--	398	2.8
EB- 621	7S	1E	39	302500091052501	12112BR	1487	01-18-90	1400	--	309	--
EB- 733	7S	1E	81	302647091083301	12223BR	2637	05-08-90	1325	--	330	2.8
EB- 745	7S	2E	58	302414091032601	11204BR	503	01-18-90	1100	--	309	2.6
EB- 750	6S	1W	75	303141091114801	12228BR	2643	05-16-90	1230	--	702	58
EB- 771	7S	1E	81	302646091083801	12115BR	1739	01-18-90	1445	--	318	2.5
EB- 778	7S	1E	94	302509091082701	12220BR	2586	05-09-90 09-14-90	1330 1402	-- --	992 987	140 140
EB- 780A	7S	1E	94	302509091082702	12112BR	1622	12-08-89 09-17-90	1130 1410	-- --	3050 3090	840 840
EB- 780B	7S	1E	94	302509091082703	12115BR	1913	12-11-89 09-14-90	1245 1224	-- --	1650 1670	330 340

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE, FIELD (µS/CM)	SPE-CIFIC CON-DUCT-ANCE, LAB (µS/CM)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
	T.	R.	SEC.								
EAST BATON ROUGE PARISH--CONTINUED											
EB- 781	7S	1E	94	302535091090401	12220BR	2286	05-12-90	1330	--	7960	2600
							07-18-90	1500	--	8060	2600
EB- 783A	7S	1W	54	302502091113601	12115BR	2179	12-14-89	1725	--	668	110
EB- 783B	7S	1W	54	302502091113602	12220BR	2675	05-11-90	0900	--	3050	740
							09-14-90	1900	--	3390	740
EB- 789B	7S	1E	93	302511091070402	12115BR	1721	12-11-89	0930	--	6010	1900
							09-25-90	0913	--	6340	1900
EB- 792B	7S	1E	95	302605091080602	12220BR	2286	05-10-90	1300	--	384	2.8
							09-17-90	1633	--	392	3.0
EB- 793	7S	1W	71	302719091103201	11206BR	687	12-18-89	1330	--	354	3.2
							08-29-90	1125	--	356	4.2
EB- 794	7S	1W	52	302559091110801	12224BR	2709	05-11-90	0930	--	525	11
							09-20-90	1545	--	521	11
EB- 803B	8S	2E	5	302306091022602	12220BR	2565	05-09-90	0830	--	2190	520
							09-19-90	1906	--	2210	520
EB- 804A	7S	1E	70	302428091035001	12117BR	1950	12-06-89	1330	--	384	2.5
							09-24-90	1638	--	389	1.9
EB- 804B	7S	1E	70	302428091035002	12224BR	2762	05-09-90	0945	--	426	4.2
							09-24-90	1801	--	427	4.1
EB- 807A	7S	1E	96	302611091091201	12115BR	1713	08-28-90	1415	--	9900	3200
EB- 807B	7S	1E	96	302611091091202	12220BR	2264	05-12-90	0900	--	459	32
							09-26-90	1017	--	467	34
EB- 816	7S	1E	62	302534091054501	11204BR	520	06-26-90	1030	--	281	4.8
EB- 822	7S	1W	54	302510091105003	11204BR	573	12-12-89	1445	--	2860	800
							09-25-90	1038	--	2920	800
EB- 824	7S	1E	96	302553091092001	11206BR	581	12-12-89	0950	--	280	3.6
							09-25-90	1146	--	290	4.2
EB- 825	7S	1E	96	302553091092002	11204BR	475	12-12-89	1021	--	272	3.4
							09-25-90	1206	--	278	3.0
EB- 870	7S	1W	44	302729091100601	11206BR	692	12-18-89	1525	--	287	2.2
							09-25-90	1336	--	293	1.3
EB- 917	7S	1E	95	302614091083001	12115BR	1736	12-19-89	1215	--	308	7.6
							09-18-90	1738	--	364	21
EB- 918	7S	1E	91	302547091074401	12115BR	1834	12-07-89	0800	--	321	4.2
							09-19-90	1655	--	330	3.1
EB-1000	6S	1W	69	303251091115001	12228BR	2926	08-29-90	1010	--	822	.95
EB-1017C	7S	2E	57	302406091021203	11204BR	567	01-18-90	1415	--	304	2.3
EB-1028	7S	1W	53	302605091100901	12220BR	2238	07-18-90	1300	--	1050	210
FRANKLIN PARISH											
FR- 720	14N	8E	30	320941091411301	112MRVA	100	01-25-90	1200	10100	--	2900
							09-26-90	1315	--	9790	2900
FR- 721	14N	7E	25	320958091425501	112MRVA	77	01-25-90	--	1880	--	340
							09-26-90	1355	--	1860	340
IBERIA PARISH											
I- 93	12S	7E	5	300035091443301	112CHCTU	585	11-29-89	1145	--	838	80
							03-30-90	0900	--	848	78
							09-12-90	0930	--	838	74
JEFFERSON PARISH											
JF- 161	13S	23E	1	295549090104101	112GZNO	772	11-01-89	1204	--	1270	200
							04-05-90	1100	--	1280	200
JEFFERSON DAVIS PARISH											
JD- 491	11S	3W	14	300508092405601	112CHCTU	377	12-01-89	1155	--	719	100
							04-04-90	1345	--	722	120
							09-06-90	1424	--	726	100
LAFAYETTE PARISH											
LF- 742	11S	5E	7	300605091593505	112CHCTU	96	12-29-89	1200	--	186	8.1
							04-04-90	1600	--	184	7.9

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCTANCE, FIELD (µS/CM)	SPE-CIFIC CON-DUCTANCE, LAB (µS/CM)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
	T.	R.	SEC.								
MADISON PARISH											
MA- 64	17N	12E	23	322614091122001	112MRVA	117	03-15-90 09-25-90	1240 1545	9340 9500	-- --	2600 2700
ORLEANS PARISH											
OR- 61	12S	12E	38	300055090013101	112GZNO	653	10-31-89 04-04-90	1315 1425	-- --	992 970	82 82
OR- 130	12S	12E		295738090021001	112GZNO	736	11-01-89 06-08-90	1115 1400	-- --	1810 1960	320 300
OR- 203	11S	13E	30	300349089562401	112GZNO	453	11-14-89 04-06-90	1022 1130	-- --	1720 1720	340 360
OUACHITA PARISH											
OU- 264	16N	4E	5	322404092045001	112ORVA	44	06-22-90	1030	--	--	170
OU- 402	15N	4E	16	321714092041401	124SPRT	750	03-12-90 09-24-90	1125 1320	3660 3700	-- --	840 890
OU- 403	15N	4E	16	321714092041402	124SPRT	460	03-12-90 09-24-90	1235 1200	1730 1740	-- --	250 260
OU- 469	16N	4E	2	322425092020401	124SPRT	400	03-13-90 09-25-90	0750 0750	1010 1020	-- --	140 120
RICHLAND PARISH											
RI- 112	17N	9E	24	322623091294901	112MRVA	67	03-15-90 09-25-90	1345 1335	1350 1470	-- --	360 330
RI- 114	17N	9E	24	322636091295702	112MRVA	66	03-15-90 09-25-90	1120 1445	1140 1210	-- --	180 190
RI- 124	17N	9E	25	322605091301101	112MRVA	84	03-15-90 09-25-90	1020 1410	1330 1380	-- --	180 200
ST. CHARLES PARISH											
SC- 159	12S	20E	23	295926090273101	112NORC	440	11-01-89 04-05-90	1303 1145	-- --	1550 1580	210 220
ST. JAMES PARISH											
SJ- 206	11S	5E	190	300325090394701	112GRMC	244	11-01-89 04-05-90	1030 --	-- --	888 794	150 110
ST. JOHN THE BAPTIST PARISH											
SJB- 165	10S	8E	5	301247090245901	120CVGN	3000	a03-14-90	1115	--	947	74
SJB- 176	9S	8E	33	301336090244101	120CVGN	2950	b03-14-90	1200	--	697	19
ST. MARTIN PARISH											
SMN- 108	9S	7E	36	301304091424001	112CHCTU	505	11-29-89 03-30-90	1430 1115	-- --	1870 1870	320 320
SMN- 109	9S	7E	36	301304091424002	112CHCTU	375	09-12-90 11-29-89	1100 1415	-- --	1910 1130	310 110
							03-30-90 09-12-90	1145 1100	-- --	1140 1160	100 100
ST. MARY PARISH											
SM- 57L	14S	8E	27	294749091402302	112CHCTU	738	11-29-89 03-29-90	0930 1530	-- --	5330 5380	1500 1500
SM- 57U	14S	8E	27	294749091402301	112CHCTU	638	11-28-89 03-29-90 09-11-90	1430 1545 1130	-- -- --	1140 1160 1160	180 180 170

a Color (platinum cobalt scale), 70 units.

b Color (platinum cobalt scale), 40 units.

WELL NO.	LOCATION				STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE, FIELD	SPE- CIFIC CON- DUCT- ANCE, LAB	CHLO- RIDE, DIS- SOLVED
	T.	R.	SEC.	(μS/CM)						(μS/CM)	(MG/L AS CL)	
VERMILION PARISH												
VE- 630U	14S	1E	10	295031092203202	112CHCTU	498	11-27-89	1430	--	1050	130	
							03-29-90	0945	--	1060	140	
							09-07-90	1218	--	1070	130	
VE- 637L	13S	3E	15	295345092100703	112CHCTU	243	11-28-89	0930	--	2580	640	
							03-29-90	1300	--	2580	620	
							09-07-90	1315	--	2580	580	
VE- 639	16S	1W	2	293845092264901	112CHCTS	608	11-22-89	1330	--	1520	290	
							03-28-90	1415	--	1530	290	
							09-07-90	0940	--	1540	270	
WEST BATON ROUGE PARISH												
WBR- 35	7S	12E	68	302657091124201	12112BR	1290	01-19-90	1000	--	308	3.3	
WBR- 100B	7S	12E	68	302652091121402	12224BR	2448	12-01-89	1230	--	359	2.2	
							09-24-90	1117	--	369	1.9	
WBR- 136	7S	12E	21	302712091145701	12112BR	1305	01-19-90	1230	--	286	2.9	
							06-13-90	1350	--	293	3.7	
WBR- 137	7S	12E	93	302657091142101	12112BR	1330	01-19-90	1100	--	285	3.0	
WBR- 147	7S	12E	70	302559091122001	12110BR	1292	01-03-90	0941	--	2900	740	
							09-21-90	1800	--	2840	760	
WBR- 148	7S	11E	23	302702091185101	12112BR	1304	12-01-89	1030	--	339	2.4	
							09-24-90	1256	--	342	4.0	
WBR- 181	7S	12E	68	302644091121201	12117BR	1900	01-19-90	1030	--	300	2.7	
WINN PARISH												
W- 144B	11N	1W	19	315450092310102	124SPRT	550	03-16-90	0945	1540	--	100	
							09-27-90	0935	1510	--	130	

QUALITY OF GROUND WATER

MINOR ELEMENTS FOR MONITOR WELLS, OCTOBER 1989 TO SEPTEMBER 1990

[Additional information for most wells may be found in the complete chemical analyses and organic chemical analyses tables. See end of complete chemical analyses table for explanation of geologic unit (aquifer) codes. <, Actual value is known to be less than the value shown]

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	ANTI-MONY, DIS-SOLVED (µG/L AS SB)		
	T.	R.	SEC.								
ACADIA PARISH											
AC- 452	10S	1W	34	300742092265901	112CHCTU	246	11-15-89	1100	<1		
ASCENSION PARISH											
AN- 267	9S	3E	16	301544090543901	112GZNO	488	11-20-89	1030	<1		
DE SOTO PARISH											
DS- 327	12N	13W	4	320259093420001	124WLCX	243	03-27-90	1000	<1		
RAPIDES PARISH											
R- 932	2N	3W	22	310819092394002	122WMCK	466	03-26-90	0900	<1		
TANGIPAHOA PARISH											
TA- 560	3S	7E	20	304634090314001	122AMIT	2032	11-16-89	1100	<1		
WELL NO.	LOCATION			DATE OF SAMPLE	ARSENIC DIS-SOLVED (µG/L AS AS)	BARIUM, DIS-SOLVED (µG/L AS BA)	BERYL-LIUM, DIS-SOLVED (µG/L AS BE)	CADMIUM DIS-SOLVED (µG/L AS CD)	CHROMIUM, DIS-SOLVED (µG/L AS CR)	COPPER, DIS-SOLVED (µG/L AS CU)	LEAD, DIS-SOLVED (µG/L AS PB)
ACADIA PARISH--CONTINUED											
AC- 452	10S	1W	34	11-15-89	<1	600	<10	<1	<10	3	1
ASCENSION PARISH--CONTINUED											
AN- 267	9S	3E	16	11-20-89	<1	100	<10	<1	<10	<1	<1
DE SOTO PARISH--CONTINUED											
DS- 327	12N	13W	4	03-27-90	<1	100	<10	<1	<10	<1	<1
RAPIDES PARISH--CONTINUED											
R- 932	2N	3W	22	03-26-90	<1	<100	<10	<1	<10	2	<1
TANGIPAHOA PARISH--CONTINUED											
TA- 560	3S	7E	20	11-16-89	<1	<100	<10	<1	<10	2	1
WELL NO.	LOCATION			DATE OF SAMPLE	MERCURY DIS-SOLVED (µG/L AS HG)	NICKEL, DIS-SOLVED (µG/L AS NI)	SELENIUM, DIS-SOLVED (µG/L AS SE)	SILVER, DIS-SOLVED (µG/L AS AG)	ZINC, DIS-SOLVED (µG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE DIS-SOLVED (MG/L AS CN)
ACADIA PARISH--CONTINUED											
AC- 452	10S	1W	34	11-15-89	<0.1	<1	<1	<1	30	1.8	<0.01
ASCENSION PARISH--CONTINUED											
AN- 267	9S	3E	16	11-20-89	<.1	<1	<1	<1	10	.4	<.01
DE SOTO PARISH--CONTINUED											
DS- 327	12N	13W	4	03-27-90	<.1	<1	<1	--	30	1.5	<.01
RAPIDES PARISH--CONTINUED											
R- 932	2N	3W	22	03-26-90	.1	<1	<1	--	10	1.0	<.01
TANGIPAHOA PARISH--CONTINUED											
TA- 560	3S	7E	20	11-16-89	<.1	<1	<1	<1	10	.7	<.01

COMPLETE CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1989 TO SEPTEMBER 1990

[Additional information for most wells may be found in the minor elements or organic chemical analyses tables. <, Actual value is known to be less than the value shown; see end of table for explanation of geologic unit (aquifer) codes]

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE, FIELD (µS/CM)	PH, FIELD (STANDARD UNITS)	WATER TEMPERATURE (DEG C)	
	T.	R.	SEC.									
ACADIA PARISH												
AC- 452	10S	1W	34	300742092265901	112CHCTU	246	11-15-89	1100	825	7.5	23.0	
ASCENSION PARISH												
AN- 267	9S	3E	16	301544090543901	112GZNO	488	11-20-89	1030	303	7.3	23.5	
CONCORDIA PARISH												
CO- 215	5N	8E	3	312630091390001	112MRVA	121	03-14-90	1100	3450	7.2	20.0	
DE SOTO PARISH												
DS- 327	12N	13W	4	320259093420001	124WLCX	243	03-27-90	1000	1100	7.4	22.0	
FRANKLIN PARISH												
FR- 720	14N	8E	30	320941091411301	112MRVA	100	03-13-90	1115	9760	7.3	21.0	
FR- 721	14N	7E	25	320958091425501	112MRVA	77	03-13-90	1340	1860	7.5	19.5	
RAPIDES PARISH												
R- 932	2N	3W	22	310819092394002	122WMCK	466	03-26-90	0900	471	7.5	22.5	
TANGIPAHOA PARISH												
TA- 560	3S	7E	20	304634090314001	122AMIT	2032	11-16-89	1100	219	8.6	25.5	
WELL NO.	LOCATION			DATE OF SAMPLE	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS, TOTAL (MG/L AS CAC03)	CALCIUM, DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, FIELD (MG/L AS CAC03)	SULFATE, DIS-SOLVED (MG/L AS SO4)
	T.	R.	SEC.									
ACADIA PARISH--CONTINUED												
AC- 452	10S	1W	34	11-15-89	0	180	46	15	120	3.2	369	0.2
ASCENSION PARISH--CONTINUED												
AN- 267	9S	3E	16	11-20-89	0	39	10	3.5	55	1.4	146	2.8
CONCORDIA PARISH--CONTINUED												
CO- 215	5N	8E	3	03-14-90	0	950	260	72	320	11	414	2.4
DE SOTO PARISH--CONTINUED												
DS- 327	12N	13W	4	03-27-90	0	69	19	5.1	210	4.2	272	120
FRANKLIN PARISH--CONTINUED												
FR- 720	14N	8E	30	03-13-90	0	1200	300	110	1600	12	486	110
FR- 721	14N	7E	25	03-13-90	0	460	120	40	220	4.5	471	.4
RAPIDES PARISH--CONTINUED												
R- 932	2N	3W	22	03-26-90	0	18	6.0	.8	100	1.6	231	.4
TANGIPAHOA PARISH--CONTINUED												
TA- 560	3S	7E	20	11-16-89	0	--	.2	<.1	51	.2	106	7.0

WELL NO.	LOCATION			DATE OF SAMPLE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	IRON, DIS- SOLVED (µG/L AS FE)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)
	T.	R.	SEC.										
ACADIA PARISH--CONTINUED													
AC- 452	10S	1W	34	11-15-89	51	0.2	32	477	490	<0.01	<0.02	280	78
ASCENSION PARISH--CONTINUED													
AN- 267	9S	3E	16	11-20-89	9.4	.3	52	201	222	<.01	<.02	120	100
CONCORDIA PARISH--CONTINUED													
CO- 215	5N	8E	3	03-14-90	880	.2	34	2060	1860	<.01	<.02	28000	690
DE SOTO PARISH--CONTINUED													
DS- 327	12N	13W	4	03-27-90	100	.2	18	657	640	<.01	.03	190	40
FRANKLIN PARISH--CONTINUED													
FR- 720	14N	8E	30	03-13-90	2900	.4	29	5770	5370	<.01	<.02	12000	210
FR- 721	14N	7E	25	03-13-90	340	.2	27	1030	1040	<.01	<.02	3100	510
RAPIDES PARISH--CONTINUED													
R- 932	2N	3W	22	03-26-90	14	1.1	17	289	280	<.01	.02	30	48
TANGIPAHOA PARISH--CONTINUED													
TA- 560	3S	7E	20	11-16-89	3.0	.4	48	167	--	<.01	<.02	50	38

GEOLOGIC UNIT (AQUIFER):

112ALVL- Alluvial aquifers, undifferentiated, Pleistocene age.
 112CHCTS- Chicot aquifer, shallow sand unit, Pleistocene age.
 112CHCTU- Chicot aquifer, upper sand unit, Pleistocene age.
 112GRMC- Gramercy aquifer, Pleistocene age.
 112GZNO- Gonzales-New Orleans aquifer, Pleistocene age.
 112MRVA- Mississippi River alluvial aquifer, Pleistocene age.
 112NORC- Norco aquifer, Pleistocene age.
 112ORVA- Ouachita River Alluvial aquifer, Pleistocene age.
 11202LC- "200-foot" sand of Lake Charles area, Pleistocene age.
 11204BR- "400-foot" sand of Baton Rouge-Gonzales area, Pleistocene age.
 11206BR- "600-foot" sand of Baton Rouge-Gonzales area, Pleistocene age.
 11205LC- "500-foot" sand of Lake Charles area, Pleistocene age.
 11207LC- "700-foot" sand of Lake Charles area, Pleistocene age.
 120CVGN- Covington aquifer (Zone 2), Pliocene age.
 12110BR- "1,000-foot" sand of Baton Rouge area, Pliocene age.
 12112BR- "1,200-foot" sand of Baton Rouge area, Pliocene age.
 12115BR- "1,500-foot" sand of Baton Rouge area, Pliocene age.
 12117BR- "1,700-foot" sand of Baton Rouge area, Pliocene age.
 122AMIT- Amite aquifer (Zone 3), Miocene age.
 122WMCK- Williamson Creek Member of Fleming Formation, Miocene age.
 12220BR- "2,000-foot" sand of Baton Rouge area, Miocene age.
 12223BR- "2,000-foot" and "2,400-foot" sands of Baton Rouge area, Miocene age.
 12224BR- "2,400-foot" sand of Baton Rouge area, Miocene age.
 12228BR- "2,800-foot" sand of Baton Rouge area, Miocene age.
 124SPRT- Sparta sand, Eocene age.
 124WLCX- Wilcox Group, Eocene age.

[Additional information for wells may be found in the complete chemical analyses and minor elements table. See end of complete chemical analyses table for explanation of geologic unit (aquifer) codes. <, Actual value is known to be less than the value shown]

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[illegible][illegible][illegible]

WELL NO.	LOCATION			DATE OF SAMPLE	2-CHLORO-PHENOL, TOTAL (µG/L)	2,4-DI-CHLORO-PHENOL, TOTAL (µG/L)	2,4,6-TRI-CHLORO-PHENOL, TOTAL (µG/L)	2,4-DI-METHYL-PHENOL, TOTAL (µG/L)	4,6-DINITRO-ORTHOCRESOL, TOTAL (µG/L)	2,4,-DI-NITRO-PHENOL, TOTAL (µG/L)	2-NITRO-PHENOL, TOTAL (µG/L)	4-NITRO-PHENOL, TOTAL (µG/L)	PENTA-CHLORO-PHENOL, TOTAL (µG/L)
	T.	R.	SEC.										
ACADIA PARISH--CONTINUED													
AC- 452	10S	1W	34	11-15-89	<5	<5	<20	<5	<30	<20	<5	<30	<30
ASCENSION PARISH--CONTINUED													
AN- 267	9S	3E	16	11-20-89	<5	<5	<20	<5	<30	<20	<5	<30	<30
DE SOTO PARISH--CONTINUED													
DS- 327	12N	13W	4	03-27-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
RAPIDES PARISH--CONTINUED													
R- 932	2N	3W	22	03-26-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
TANGIPAHOA PARISH--CONTINUED													
TA- 560	3S	7E	20	11-16-89	<5	<5	<20	<5	<30	<20	<5	<30	<30

WELL NO.	LOCATION			DATE OF SAMPLE	PHENOL (C6H-5OH), TOTAL (µG/L)	ACE-NAPHTH-ENE, TOTAL (µG/L)	ACE-NAPHTH-YLENE, TOTAL (µG/L)	ANTHRA-CENE, TOTAL (µG/L)	BENZI-DINE, TOTAL (µG/L)	BENZO A ANTHRACENE1,2-BENZANTHRACENE, TOTAL (µG/L)	BENZO B FLUOR-AN-THENE, TOTAL (µG/L)	BENZO K FLUOR-AN-THENE, TOTAL (µG/L)	BENZO-A-PYRENE, TOTAL (µG/L)
	T.	R.	SEC.										
ACADIA PARISH--CONTINUED													
AC- 452	10S	1W	34	11-15-89	<5	<5	<5	<5	<50	<5	<10	<10	<10
ASCENSION PARISH--CONTINUED													
AN- 267	9S	3E	16	11-20-89	<5	<5	<5	<5	<50	<5	<10	<10	<10
DE SOTO PARISH--CONTINUED													
DS- 327	12N	13W	4	03-27-90	<5	<5	<5	<5	<50	<5	<10	<10	<10
RAPIDES PARISH--CONTINUED													
R- 932	2N	3W	22	03-26-90	<5	<5	<5	<5	<50	<5	<10	<10	<10
TANGIPAHOA PARISH--CONTINUED													
TA- 560	3S	7E	20	11-16-89	<5	<5	<5	<5	<50	<5	<10	<10	<10

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WELL NO.	LOCATION			DATE OF SAMPLE	CHRY-SENE, TOTAL (µG/L)	1,2,5,6	DI-N-	3,3'-	DIETHYL PHTHAL-ATE, TOTAL (µG/L)	DI-METHYL PHTHAL-ATE, TOTAL (µG/L)	2,4-DI-NITRO-TOLUENE, TOTAL (µG/L)	2,6-DI-NITRO-TOLUENE, TOTAL (µG/L)
	T.	R.	SEC.			-ANTHRA-CENE, TOTAL (µG/L)	BUTYL-PHTHAL-ATE, TOTAL (µG/L)	DI-CHLORO-BENZI-DINE, TOTAL (µG/L)				
ACADIA PARISH--CONTINUED												
AC- 452	10S	1W	34	11-15-89	<10	<10	<5	<25	<5	<5	<5	<5
ASCENSION PARISH--CONTINUED												
AN- 267	9S	3E	16	11-20-89	<10	<10	<5	<25	<5	<5	<5	<5
DE SOTO PARISH--CONTINUED												
DS- 327	12N	13W	4	03-27-90	<10	<10	<5	<25	<5	<5	<5	<5
RAPIDES PARISH--CONTINUED												
R- 932	2N	3W	22	03-26-90	<10	<10	<5	<25	<5	<5	<5	<5
TANGIPAHOA PARISH--CONTINUED												
TA- 560	3S	7E	20	11-16-89	<10	<10	<5	<25	<5	<5	<5	<5

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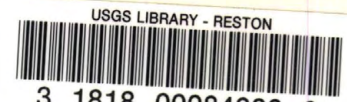
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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons



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