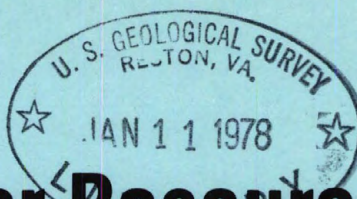


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Water Resources Data for Louisiana

Water Year 1977

Volume 1. Central and Northern Louisiana



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-77-1

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

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

S	M	T	W	T	F	S
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1977

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Water Resources Data for Louisiana Water Year 1977

Volume 1. Central and Northern Louisiana



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

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

For information on the water program in Louisiana write to
District Chief, Water Resources Division
U.S. Geological Survey
P.O. Box 66492
Baton Rouge, LA 70896

PREFACE

This report was prepared by personnel of the Louisiana district of the Water Resources Division of the U.S. Geological Survey under the supervision of A. N. Cameron, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Louisiana and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Louisiana are in three volumes as follows:

- Volume 1. Central and northern Louisiana
- Volume 2. Southern Louisiana
- Volume 3. Coastal Louisiana

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
*[Letter after station name designates type of data: (d) discharge,
 (g) gage height, (c) chemical, (m) microbiological,
 (t) water temperature, (s) sediment]*

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INTRODUCTION

Water resources data for the 1977 water year for Louisiana consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report, in three volumes, contains discharge records for 72 gaging stations; stage record for 66 of these gaging stations; stage only for 30 gaging stations; contents for 1 reservoir; stage only for 10 lakes; water quality for 148 stations; 27 of these at gaging stations; 215 areal stations, 10 lakes, and 174 wells; and water levels for 696 observation wells. Also included are 199 crest-stage partial-record stations and flood-profile partial-record stations. Additional water data were collected at various sites, not involved in the systematic data-collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Louisiana.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry 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 report is identified as "U.S. Geological Survey Water-

Data Report LA-77-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22151.

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 through cooperative agreement with the Survey are:

Louisiana Department of Transportation and Development, George Fischer, Secretary; Office of Public Works, Roy Aguillard, Assistant Secretary, and Office of Highways, W. T. Taylor, Assistant Secretary.

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

Capitol Area Ground Water Conservation Commission, Dr. Austin F. Anthis, chairman.

Assistance in the form of funds or services was provided by the Corps of Engineers, U.S. Army and U.S. Fish and Wildlife Service, in collection of records for 34 gaging stations and 39 water-quality stations published in this report.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

The drought that was prevalent in the western United States in the late spring and summer extended into Louisiana. Streamflow for each month, May to August, was below average at key gaging stations in northern Louisiana as was the runoff for the water year.

Runoff in the central and southwestern areas was about average; in the Florida Parishes runoff was above average. The Red, Atchafalaya, and Mississippi Rivers had below average runoff for the water year.

An outstanding flood on the Amite River in April caused much damage in the Denham Springs area. The key gaging station had a peak discharge on April 23 equal to about a 70-year flood; this was the maximum discharge of record.

The gaging station on Pearl River near Bogalusa had above average runoff for the water year. The peak discharge for the year, 49,900 cubic feet per second on April 22, was equivalent to a 3-year flood.

Because of the low discharge of the lower Mississippi River, movement of saltwater from the Gulf of Mexico into the main stem of the river occurred in early October 1976 and again in late June 1977. The leading edge of the saltwater wedge was located near Myrtle Grove (mile 57) on October 6, 1976, and at Pointe a la Hache (mile 45) on June 21, 1977.

Ground-water levels in many of the major aquifers in Louisiana declined during the water year. These aquifers include the Sparta Sand of northern Louisiana, the Miocene aquifer of central Louisiana, most of the Baton Rouge and New Orleans aquifers, and the Chicot aquifer in the rice-irrigation area of southwestern Louisiana. Water levels for the Evangeline aquifer of southwestern Louisiana at the end of the water year were essentially the same as a year ago.

Because of the low discharge of the lower Mississippi River, movement of saltwater from the Gulf of Mexico into the main stem of the river began in early October and re-occurred in late June. The leading edge of the saltwater wedge was located near Myrtle Grove (mile 57) on October 6 and at Pointe a la Hache (mile 45) on June 21.

The chemical quality of streamflow is monitored at many sites in the State. Samples are obtained at periodic intervals according to the intensity of the study. Results indicate that no unusual changes have taken place in the quality of surface streams during the year, and no new problem areas were found.

Ground-water levels in many of the major aquifers in Louisiana declined during the water year. These aquifers include the Sparta sand of northern Louisiana, the Miocene aquifer of central Louisiana, most of the Baton Rouge and New Orleans aquifers, and the Chicot aquifer in the rice-irrigation area of southwestern Louisiana. Water levels for the Evangeline aquifer of southwestern Louisiana are essentially the same as a year ago. In the Lake Charles industrial area, water levels in the "500-foot" sand of the Chicot aquifer were slightly lower than a year ago.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of 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 threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials. NOTE: The letter 'B' preceding a value indicates the results are based on colony count outside the acceptable 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 which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which 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 organisms which 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 also in 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 within 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/m^3 (grams per cubic meter), and periphyton and benthic organisms in g/m^2 (grams per square meter).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°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 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.

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

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

Cubic 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.

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 the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) suspended particles. Analyses are performed on filtered samples.

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.

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.

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.

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

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:

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

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

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

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 should contain not less than 95 percent of 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-0, 4-endo-exo-5, 8-dimethano-naphthanene.

Chlordane 1,2,4,5,6,7,8, 8-oxtachloro-3a,4,7, 7-tetrahydro-4, 7-methanoindane.

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-pyrimidyl) phosphorothioate.

Dieldrin should contain not less than 85 percent of 1,2,3,4,10,10-hexachloro-6, 7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1, 4-endo-exo-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-1,4-endo-endo-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-methaniondene.

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

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

Malathion S-(1,2-bis (ethoxycarbonyl) ethyl) O,O-dimethyl phosphorodithioate.

Methyl parathion O,O-dimethyl O-p-nitrophenyl phosphorothioate.

Methyl trithion phosphorodithioic acid S- $\{[(p\text{-chlorophenyl})\text{thio}]\text{methyl}\}$ O,O-dimethyl ester.

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

Mirex Dodecachlorooctahydro-1,3,4-methano-2H-cyclobuto [cd] pentalene.

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

Toxaphene chlorinated camphene containing 67 percent chlorine.

Trithion phosphorodithioic acid S- $\{[(p\text{-chlorophenyl})\text{thio}]\text{methyl}\}$ O,O-diethyl ester.

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:

Atrazine 2-chloro-4-ethylamino-6-isoprophlamino-5-triazine.

Simazine 2-chloro-4,6-bis(ethylamino)-5-triazine.

2,4-D 2,4-dichlorophenoxyacetic acid.

2,4,5-T 2,4,5-trichlorophenoxyacetic 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 a colloid.

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

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 mg/L times 0.0027.

Suspended-sediment load is 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 day.

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

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in 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 emersed 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 hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

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

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

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of 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 filter.

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 day.

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 mg/L of the constituent, times the factor 0.0027, times the number of days.

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>Hexageria</u>
Species.....	<u>Hexagenia limbata</u>

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

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to State annual basic-data reports published before 1975.

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

DOWNSTREAM ORDER AND STATION NUMBER

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 main-stream station are listed before that station. A station on a tributary that enters between two main-stream 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 on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indentation in a list of stations in the front of the 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.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and 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 8-digit number for each station such as 02489500, which appears just to the left of the station name, includes the 2-digit part number "02" plus the 6-digit downstream order number "489500". Records in this report are in Part 2 (South Atlantic Slope and Eastern Gulf of Mexico basin), Part 7 (Lower Mississippi River basin) and Part 8 (Western Gulf of Mexico basin).

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 on following page.

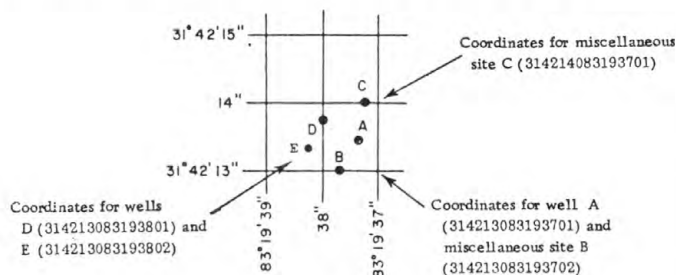


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

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

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.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radio-isotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

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

At some stream-gaging stations the stage-discharge relation is affected by 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.

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

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

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is

that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

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

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow at the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little

significance. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum

discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

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, the second is a table of discharge measurements at miscellaneous sites, and the third is a table of peak elevations at flood-profile partial-record stations.

Accuracy of field data and computed results

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 discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

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

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

Other data available

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

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected during water year 1977 at sites in Louisiana by the Corps of Engineers, U.S. Army. The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives periods of record for the various types of water-quality data (chemical, specific conductance, water temperatures, sediment discharge), extremes of pertinent data, and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Organics analyses

Water samples were collected from the Mississippi River to identify and quantify both volatile and semivolatile organic compounds present in the river. Volatile samples collected from the Mississippi were collected from mid-channel at a depth of twenty feet using a standard sewage sampler to minimize aeration. Volatile samples from Big Creek at Pollock were collected at mid-depth of the stream. Samples for semivolatile analysis were collected throughout the water column using a sediment sampler equipped with a teflon nozzle and teflon gaskets. All samples were stored at 4°C until time of analysis.

Volatile samples were analyzed using the "Bellar" sparging technique. The samples were sparged for 15 minutes with VHP nitrogen onto a Tonax-GC collection trap. The trap was backflushed at 200°C for 5 minutes to desorb the organics onto the chromatographic column.

Semivolatile samples were extracted with dichloromethane at three different pH levels: 1) pH of the sample (neutral extraction), 2) pH of 1 (acid extraction), and 3) pH of 2 (base extraction). The neutral and base extracts were combined for chromatographic analysis.

All samples were analyzed by Gulf South Research Institute, Department of Analytical Chemistry. Analyses were performed using a Hewlett Packard 5982 gas chromatograph/mass spectrometer (GC/MS) system.

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.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow 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 of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Collection of the data

Ground-water-level data from a network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the most important aquifers.

This report updates water-level measurements for wells included in "Water resources data for Louisiana, 1975," and "Ground-water levels in Louisiana for wells measured through 1974," Louisiana Department of Public Works Basic Records Report No. 7. Records for some wells, for which measurements have never been published, are also included.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

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 altitude of the land-surface datum above mean sea level is given in the well description. Altitudes with zeros in the tenths and hundredths columns are generally accurate only to about the nearest foot. 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, the end of each month (eom), and for dates when check measurements were made.

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 in 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 only to a tenth of a foot or a larger unit. In the computer format used in this report, zeroes shown in the hundredths column generally indicate measurements accurate only to tenths.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

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

- 1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. \$1.15.
- 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. \$1.90
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
- 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. \$0.25.
- 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. \$0.20.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 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. \$1.00
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.30.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968, 13 pages. \$0.20.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$0.40.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. \$0.70.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. \$0.70.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$1.15.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$0.30.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.20.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.75.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$0.65.
- 5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. \$2.40.
- 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. \$0.80.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. \$0.90.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greenson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. \$1.95.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$0.65.
- 7-C1. *A digital model for aquifer evaluation*, by G. F. Pinder: USGS--TWRI Book 7, Chapter C1. 1970. 18 pages. \$0.65.
- 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. \$0.70.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$0.40.

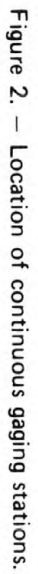




Figure 3. — Location of crest-stage stations.



Figure 4. — Location of water-quality stations.

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS

LOCATION.--Lat 32°18'45", long 90°54'25", in T.16 N., R.3 E., Washington Meridian, Warren County, Hydrologic Unit 08060100, over cavity of fourth pier from left bank at combined highway and railway bridge of Vicksburg Bridge Commission of Warren County, at southern city limits of Vicksburg, 1.5 mi (2.4 km) downstream from Yazoo diversion canal, and at mile 430.4 (692.5 km).

DRAINAGE AREA.--1,144,500 mi² (2,964,300 km²), contributing.

PERIOD OF RECORD.--Discharge: January 1928 to September 1975. Prior to July 1931, monthly discharge only, published in WSP 1311. Gage heights: April 1930 to September 1975 in reports of Geological Survey. Since December 1871, referred to canal gages (above 30.0 ft or 9.14 m only, since December 1949), and since September 1934 to December 1964, referred to bridge gage, in reports of Mississippi River Commission. January 1937 to December 1967, referred to bridge gage; and since 1967, referred to gage 1.1 mi (1.8 km) upstream in reports of Corps of Engineers. Since May 1873, in reports of National Weather Service.

Extremes of stage intermittent 1828-71 and continuous since 1871; extremes of discharge for various years 1858 to 1926 and continuous since 1926; annual mean discharges since 1871, and records of daily discharge 1928 to 1964 are available in reports of Mississippi River Commission. Since January 1947 daily discharge in reports of Corps of Engineers. Prior to October 1968, published as Mississippi River near Vicksburg.

REVISED RECORDS.--WSP 747: Drainage area.

GAGE.--Water-stage recorder (bridge gage) maintained by the Geological Survey. Supplementary water-stage recorder on left bank at site 1.1 mi (1.8 km) upstream, maintained by Corps of Engineers. Datum of gage is 46.22 ft (14.088 m) above mean sea level (Corps of Engineers bench mark) or 46.16 ft (14.070 m) above mean Gulf level. See WRD LA-1969 or WRD MS-1973 for history of changes prior to water year 1970 and for history of gages used by the various data-collecting agencies. All gages at same datum, but readings differ due to slope of water surface between them.

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

COOPERATION.--Supplementary gage-height record and records of daily discharge furnished by Corps of Engineers.

AVERAGE DISCHARGE.--47 year, 573,600 ft³/s (16,240 m³/s), 415,570,000 acre-ft/yr (512 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,080,000 ft³/s (58,900 m³/s) Feb. 17, 1937; maximum gage height, 53.2 ft (16.22 m) Feb. 21, 1937; minimum discharge, 99,400 ft³/s (2,820 m³/s) Nov. 1, 1939; minimum gage height, -7.02 ft (-2.140 m) Feb. 3, 1940 (ice jam above).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1871, 58.4 ft or 17.80 m (Corps of Engineers gage on Yazoo diversion canal), approximately 56.0 ft (17.07 m) May 4, 1927 (Geological Survey gage).

EXTREMES FOR CURRENT YEAR.--Water year 1975: Maximum daily discharge, 1,839,000 ft³/s (52,100 m³/s) Apr. 13; maximum gage height, 47.24 ft (14.399 m) Apr. 14 at bridge gage, 49.81 ft (15.182 m) at supplementary recorder; minimum daily, 289,000 ft³/s (8.180 m³/s) Oct. 16; minimum gage height, 6.90 ft (2.103 m) Sept. 1 at supplementary recorder.

RECORDS FOR THE 1976-77 WATER YEARS ARE NOT AVAILABLE IN TIME FOR INCLUSION IN THIS REPORT. THEY WILL BE PUBLISHED IN A SUBSEQUENT REPORT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379000	306000	665000	669000	879000	1010000	1610000	1030000	878000	632000	412000	306000
2	376000	312000	670000	681000	880000	1130000	1640000	1060000	842000	611000	418000	303000
3	366000	318000	664000	699000	891000	1160000	1680000	1090000	821000	587000	411000	311000
4	348000	325000	643000	733000	916000	1170000	1700000	1120000	800000	580000	400000	320000
5	344000	339000	623000	772000	958000	1180000	1730000	1150000	774000	578000	388000	337000
6	345000	357000	601000	802000	995000	1190000	1750000	1180000	754000	576000	378000	369000
7	350000	384000	591000	838000	1030000	1200000	1770000	1200000	731000	573000	369000	382000
8	355000	419000	582000	861000	1040000	1210000	1790000	1220000	719000	567000	366000	392000
9	356000	445000	575000	880000	1080000	1210000	1810000	1240000	712000	556000	362000	400000
10	351000	470000	582000	892000	1100000	1220000	1820000	1250000	711000	542000	360000	407000
11	345000	509000	602000	900000	1120000	1220000	1820000	1260000	723000	536000	356000	411000
12	336000	545000	631000	910000	1130000	1220000	1830000	1260000	736000	538000	352000	403000
13	321000	583000	630000	919000	1140000	1240000	1840000	1270000	729000	532000	351000	398000
14	309000	634000	629000	928000	1140000	1250000	1820000	1270000	717000	522000	351000	381000
15	295000	672000	633000	944000	1150000	1260000	1800000	1280000	700000	511000	350000	370000
16	289000	694000	647000	971000	1160000	1270000	1770000	1280000	688000	501000	341000	360000
17	292000	693000	656000	999000	1160000	1280000	1740000	1280000	680000	491000	329000	351000
18	298000	688000	667000	1020000	1170000	1290000	1700000	1280000	669000	477000	313000	348000
19	298000	681000	680000	1040000	1160000	1300000	1660000	1280000	658000	462000	317000	359000
20	298000	672000	677000	1060000	1140000	1300000	1600000	1250000	648000	449000	319000	370000
21	298000	662000	673000	1070000	1120000	1310000	1520000	1220000	642000	430000	322000	378000
22	301000	654000	669000	1080000	1090000	1330000	1440000	1190000	643000	419000	327000	383000
23	307000	647000	668000	1070000	1050000	1360000	1350000	1160000	649000	412000	336000	392000
24	314000	641000	669000	1050000	1030000	1400000	1270000	1130000	654000	411000	347000	390000
25	321000	636000	670000	1010000	1010000	1420000	1190000	1100000	661000	410000	357000	386000
26	326000	636000	669000	973000	1030000	1440000	1120000	1070000	669000	410000	360000	382000
27	328000	639000	670000	944000	1050000	1470000	1050000	1030000	662000	409000	358000	401000
28	324000	644000	671000	921000	1080000	1490000	1030000	1000000	660000	409000	341000	420000
29	313000	652000	671000	908000	---	1520000	1010000	972000	655000	410000	328000	437000
30	306000	657000	666000	892000	---	1540000	1010000	940000	649000	409000	317000	451000
31	303000	---	663000	882000	---	1580000	---	902000	---	408000	310000	---
TOTAL	10092000	16514000	20007000	28318000	29699000	40170000	46870000	35964000	21234000	15358000	10946000	11298000
MEAN	325500	550500	645400	913500	1061000	1296000	1562000	1160000	707800	495400	353100	376600
MAX	379000	694000	680000	1080000	1170000	1580000	1840000	1280000	878000	632000	418000	451000
MIN	289000	306000	575000	669000	879000	1010000	1010000	902000	642000	408000	310000	303000
AC-FT	20020000	32760000	39680000	56170000	58910000	79680000	92970000	71330000	42120000	30460000	21710000	22410000
CAL YR 1974	TOTAL	297430000	MEAN	814900	MAX	1530000	MIN	289000	AC-FT	590000000		
WTR YR 1975	TOTAL	286470000	MEAN	784800	MAX	1840000	MIN	289000	AC-FT	568200000		

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.40	7.70	22.50	22.90	29.80	36.20	46.40	39.00	34.30	25.30	15.20	9.60
2	12.40	8.00	22.60	23.00	29.80	36.60	46.60	39.20	33.40	24.50	15.60	9.50
3	11.70	8.30	22.60	23.70	30.00	37.00	47.30	39.40	32.60	23.70	15.50	9.70
4	10.50	8.60	22.50	24.40	30.40	37.60	47.60	40.00	31.90	23.50	14.90	10.00
5	10.20	9.40	21.90	25.50	31.10	38.20	47.90	40.30	31.20	23.40	14.30	10.90
6	10.00	10.40	20.70	26.50	32.00	38.60	48.20	40.80	30.30	23.20	13.70	11.80
7	10.00	11.50	20.10	27.40	32.90	38.90	48.60	41.40	29.40	22.90	13.50	12.60
8	10.20	12.90	19.60	28.20	33.80	39.10	48.90	42.00	28.90	22.40	13.40	12.90
9	10.30	13.90	19.40	28.90	34.60	39.20	49.20	42.40	28.60	21.80	13.30	13.30
10	10.20	14.90	19.70	29.40	35.20	39.40	49.50	42.70	28.50	21.20	13.00	13.80
11	9.90	16.50	20.60	29.90	35.60	39.50	49.60	42.90	28.80	20.90	12.60	14.30
12	9.50	18.50	21.40	30.30	36.00	39.60	49.70	43.00	28.80	21.00	12.20	14.20
13	8.90	20.40	21.80	30.60	36.20	40.00	49.80	43.10	28.40	21.00	12.00	13.90
14	8.00	22.00	21.70	30.80	36.40	40.20	49.80	43.10	27.90	20.80	12.00	13.10
15	7.40	22.90	21.70	31.00	36.80	40.40	49.80	43.20	27.40	20.20	12.00	12.30
16	6.90	23.10	21.90	31.20	37.00	40.60	49.70	43.40	27.20	19.60	11.60	11.80
17	6.90	22.90	22.40	31.60	37.20	41.00	49.40	43.40	26.90	19.00	11.10	11.50
18	7.20	22.50	22.90	32.10	37.20	41.30	49.10	43.20	26.60	18.50	10.60	11.40
19	7.30	22.20	23.20	32.60	37.10	41.60	48.60	43.10	26.40	18.00	10.60	11.50
20	7.20	22.10	23.20	33.00	37.00	41.70	48.20	42.80	26.20	17.30	10.70	11.90
21	7.30	21.90	23.00	33.60	36.60	41.90	47.60	42.50	26.00	16.70	10.70	12.40
22	7.50	22.00	22.80	33.80	36.20	42.40	46.80	42.10	26.00	16.00	10.80	13.00
23	7.50	22.00	22.50	33.80	35.80	42.80	45.70	41.60	26.20	15.60	11.30	13.50
24	7.90	21.80	22.60	33.60	35.30	43.30	44.50	40.90	26.50	15.30	11.70	13.40
25	8.30	21.60	22.70	33.20	34.90	43.60	43.20	40.10	26.80	15.40	12.10	13.10
26	8.40	21.50	22.80	32.60	34.90	43.90	41.90	39.40	26.80	15.40	12.30	12.90
27	8.40	21.80	22.70	32.60	35.40	44.20	40.40	38.60	26.70	15.30	12.10	13.10
28	8.10	22.10	22.80	31.40	35.80	44.70	39.50	37.80	26.40	15.30	11.80	13.80
29	8.10	22.20	22.90	30.80	---	45.10	38.80	36.90	26.20	15.40	11.20	14.60
30	7.60	22.40	22.70	30.40	---	45.60	38.60	36.00	25.90	15.30	10.70	15.00
31	7.40	---	22.60	30.00	---	46.00	---	35.20	---	15.20	10.00	---
MEAN	8.83	17.93	22.02	29.96	34.68	40.97	46.70	40.95	26.24	19.33	12.34	12.49
MAX	12.40	23.10	23.20	33.80	37.20	46.00	49.80	43.40	34.30	25.30	15.60	15.00
MIN	6.90	7.70	19.40	22.90	29.80	36.20	38.60	35.20	25.90	15.20	10.00	9.50

07344400 RED RIVER NEAR HOSSTON, LA

LOCATION.--Lat 32°53'35", long 93°49'20", in SW¼ sec.16, T.22 N., R.14 W., Bossier-Caddo Parish line, Hydrologic Unit 11140202, near left bank on downstream side of bridge on State Highway 2, 1.8 mi (2.9 km) downstream from Dry Bayou, and 3.2 mi (5.1 km) east of Hosston.

DRAINAGE AREA.--57,041 mi² (147,736 km²), of which 5,936 mi² (15,374 mi²) above Denison Dam is noncontributing.

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (discharge below 5,000 ft³/s or 142 m³/s only).

GAGE.--Nonrecording gage read once daily. Datum of gage is 161.56 ft (49.244 m) above mean sea level (levels by Corps of Engineers). Prior to Feb. 20, 1962, water-stage recorder at same site and datum.

REMARKS.--Records fair. Regulation since July 1942 by Lake Texoma (capacity, 5,392,900 acre-ft or 6.65 km³), since July 1953 by Texarkana Reservoir (capacity, 2,654,300 acre-ft or 3.27 km³), and since August 1966 by Millwood Lake (capacity, 1,854,900 acre-ft or 2.29 km³).

AVERAGE DISCHARGE.--11 years (1958-68), 17,920 ft³/s (507 m³/s), 12,980,000 acre-ft/yr (16.0 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 214,000 ft³/s (6,060 m³/s) May 7, 1958, gage height, 27.89 ft (8.501 m); minimum daily, 803 ft³/s (22.7 m³/s) Sept. 16, 17, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.16 ft (5.535 m) Mar. 31; minimum discharge, 2,770 ft³/s (78.4 m³/s) Aug. 22, gage height, 1.80 ft (0.549 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4720											
2												4960
3				4500								4370
4				3780								4000
5				3720								3640
6												3440
7												4120
8												
9												
10									4920	4590		
11									4390	4310		
12									4440	4850		
13									4740	4700		
14		4780								4060		
15		4830								4120		
16											3930	
17											4370	
18									4310	4980	4420	
19									4390	4980	3720	
20									4870	4350	4250	
21											3500	
22											2840	
23									4650	3060		
24									4420	3890		
25									4160	4370		
26									4000	4870	4500	
27									4760	4250	3910	
28											4120	
29											4830	
30											4670	
31		---										---
TOTAL	---	---		---					---	---	---	---
MEAN	---	---		---					---	---	---	---
MAX	---	---		---					---	---	---	---
MIN	4720	4780		3720					4000	2840	3440	

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.99	4.39	4.21	3.69	7.04	9.01	17.80	9.83	11.57	4.43	2.98	3.02
2	3.13	4.28	4.72	3.24	6.84	8.35	16.91	9.37	11.29	4.76	3.40	2.85
3	3.30	4.72	4.68	2.89	6.32	8.09	17.09	9.22	11.34	4.77	3.61	2.58
4	3.38	5.00	4.75	2.55	6.48	9.00	17.68	9.10	11.45	4.93	3.44	2.40
5	3.40	5.17	4.58	2.52	6.58	11.53	17.97	8.94	11.82	4.99	3.20	2.23
6	3.40	5.12	4.55	3.78	6.86	14.05	17.76	8.76	11.90	4.48	3.02	2.13
7	3.50	4.91	4.95	4.78	7.29	14.18	17.34	8.34	11.23	4.01	2.94	2.45
8	4.25	4.55	5.43	4.96	7.77	13.98	16.46	7.92	10.31	3.58	2.98	4.84
9	5.02	4.34	5.52	4.86	8.60	13.76	16.64	7.61	9.80	3.10	2.98	6.00
10	5.04	4.05	5.80	4.90	8.92	13.32	16.29	7.18	9.55	2.78	2.68	5.97
11	4.84	3.63	6.24	5.12	8.87	12.40	15.83	7.05	9.13	2.54	2.55	5.33
12	4.81	3.30	6.52	5.69	9.33	11.17	15.46	7.09	8.01	2.56	2.80	4.58
13	4.58	3.12	7.24	6.56	10.12	10.57	15.46	7.07	7.25	2.70	2.73	4.20
14	4.31	3.02	8.55	7.78	11.48	10.38	15.45	6.18	6.37	2.95	2.43	3.84
15	4.08	3.04	9.44	8.63	12.32	10.45	15.16	5.29	6.24	3.10	2.46	3.67
16	3.87	3.12	9.52	9.11	12.55	10.95	14.63	5.36	6.05	3.10	2.37	3.64
17	3.95	3.34	9.42	9.51	12.34	10.80	13.68	5.52	5.72	2.90	2.58	3.22
18	4.17	3.53	9.03	10.48	12.22	10.58	13.12	5.26	5.27	2.50	2.87	2.58
19	4.16	3.48	8.39	10.67	12.07	10.35	12.97	4.82	5.02	2.54	2.87	2.25
20	4.06	3.27	8.13	10.36	11.85	10.40	12.71	4.71	4.83	2.76	2.58	2.50
21	4.09	3.27	8.18	10.16	10.94	10.33	13.80	4.61	4.67	2.89	2.17	3.10
22	4.12	3.50	7.88	9.03	10.50	9.75	14.82	4.50	4.71	2.85	1.84	3.26
23	4.13	3.67	7.50	8.45	10.44	8.95	15.56	4.64	4.49	2.67	1.95	3.11
24	4.43	3.82	6.67	8.27	10.28	8.04	15.82	5.27	4.28	2.56	2.36	2.99
25	4.80	4.01	6.10	8.14	9.81	7.29	15.29	7.02	4.15	2.44	2.59	2.94
26	4.96	4.10	6.17	7.85	9.50	6.89	14.54	9.08	3.83	2.37	2.82	2.61
27	5.05	3.95	6.04	7.63	9.24	6.81	14.04	10.23	3.82	2.73	2.53	2.33
28	5.62	3.78	6.08	7.43	9.05	7.18	13.55	10.37	4.08	3.08	3.18	2.42
29	5.58	3.60	6.08	7.50	---	7.95	12.59	10.70	4.16	3.10	3.14	2.75
30	5.38	3.60	5.85	7.35	---	13.72	11.33	11.43	4.12	3.08	2.72	3.00
31	4.95	---	4.45	7.17	---	17.78	---	11.76	---	2.98	2.90	---
MEAN	4.30	3.89	6.54	6.81	9.49	10.58	15.26	7.56	7.22	3.23	2.76	3.29
MAX	5.62	5.17	9.52	10.67	12.55	17.78	17.97	11.76	11.90	4.99	3.61	6.00
MIN	2.99	3.02	4.21	2.52	6.32	6.81	11.33	4.50	3.82	2.37	1.84	2.13

07344400 RED RIVER NEAR HOSSTON, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1957 to current year.

WATER TEMPERATURES: March 1957 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,950 micromhos Aug. 15, 1964; minimum daily, 152 micromhos May 15, 1961, Dec. 26, 1971.

WATER TEMPERATURES: Maximum daily, 34.0°C July 12, 13, 21, 1969; minimum daily, 1.0°C Jan. 11, 1962, Jan. 28, 1963, Dec. 24, 1964, Jan. 7, 8, 14, 1968.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,900 micromhos June 5; minimum daily, 166 micromhos Apr. 10.

WATER TEMPERATURES: Maximum daily, 32.0°C July 9; minimum daily, 2.0°C several days in January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	STREP-TOCOCOCCI (COLONIES PER 100 ML)	FECAL STREP-TOCOCOCCI KF AGAR (COL. PER 100 ML)
NOV 16...	0900	434	7.8	9.0	15	15	9.8	3.0	832	80	--
JAN 13...	0915	808	7.6	3.0	30	35	12.6	4.1	77	250	--
APR 20...	1400	323	6.6	--	80	65	8.2	1.5	190	--	33
JUL 19...	0830	1400	7.9	30.5	15	10	8.0	4.4	<5	--	86

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
NOV 16...	150	17	40	11	32	32	1.2	3.0	162	0	133
JAN 13...	170	98	45	15	90	52	3.0	3.4	88	0	72
APR 20...	89	31	28	4.6	27	39	1.2	2.4	71	0	58
JUL 19...	320	180	83	27	160	52	3.9	4.7	164	0	130

DATE	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 16...	4.1	33	43	.1	6.2	237	248	.32	.02	.06
JAN 13...	3.5	100	140	.2	5.4	426	442	.58	.17	.09
APR 20...	29	32	40	.1	5.9	180	175	.24	.22	.15
JUL 19...	3.3	170	300	.2	5.0	846	831	1.15	.15	.04

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DATE	TIME	AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JULY 20, 1976...	1020	32.5	30.0	--	SEPT. 29,	1045	27.5	26.0	5.8
AUG. 25,	1135	29.0	28.0	6.4					

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	952	891	821	306	314	262	325	1740	1600	1240	778
2	1110	972	693	1100	311	284	241	347	1770	1460	1180	667
3	1180	1010	712	---	329	453	203	336	1830	1210	1250	907
4	1250	769	698	992	427	376	201	357	1890	1390	1230	1410
5	1300	741	765	997	422	290	177	435	1900	1210	1250	1460
6	1200	610	705	997	420	257	190	565	1870	1070	1030	1420
7	1090	525	865	709	377	182	170	558	1840	984	966	1420
8	1140	608	911	1060	382	194	182	533	1820	1010	935	1420
9	890	603	1030	---	397	203	177	594	1780	1090	897	575
10	854	584	963	996	356	184	166	602	1830	1080	879	555
11	685	506	785	1040	332	226	196	651	1840	1180	836	585
12	708	447	630	980	235	207	218	507	1840	1200	1200	623
13	618	437	648	812	210	190	234	522	1750	1210	1240	638
14	716	417	655	614	198	194	253	559	1730	1060	1160	653
15	694	416	494	539	218	189	256	595	1710	1070	1370	705
16	643	310	458	619	215	167	267	915	1700	1050	1510	790
17	621	460	435	697	241	170	274	865	1700	1180	1500	829
18	435	559	488	636	232	221	301	740	1630	1430	1500	855
19	360	682	542	551	193	242	343	1010	1640	1440	1670	1140
20	341	1060	559	513	200	292	390	1110	1500	1350	1710	1140
21	347	1150	439	454	208	198	511	1120	1490	1390	1620	1400
22	353	1110	601	427	185	182	451	1140	1330	1290	1590	1370
23	368	1160	547	331	183	172	272	1250	1370	1270	1350	993
24	389	1200	481	266	208	182	259	1300	1370	1390	1340	753
25	463	1020	559	268	327	212	306	1480	1400	1400	1320	839
26	525	994	515	411	348	250	312	1470	1360	1350	1270	1030
27	836	984	499	435	318	---	350	1490	1310	1300	1180	1200
28	915	961	537	489	332	257	343	1390	1480	1290	1590	1240
29	910	911	526	422	---	256	342	1510	1460	1180	1490	1350
30	947	857	801	348	---	338	350	1730	1540	1280	1130	1270
31	916	---	838	331	---	283	---	1750	---	1390	762	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.0	13.0	---	4.5	---	12.0	16.5	---	27.0	29.5	28.5	29.5
2	---	13.5	8.0	3.5	4.5	---	17.0	21.5	27.0	30.0	29.5	29.5
3	---	13.5	8.0	---	4.5	---	16.0	23.0	27.0	30.0	30.0	29.5
4	24.0	13.0	---	5.0	6.0	12.0	15.5	---	---	30.5	30.0	29.5
5	---	11.5	8.5	5.0	6.0	11.0	15.5	23.5	---	30.5	---	30.5
6	---	---	---	4.5	6.5	11.5	16.0	24.0	27.0	31.0	30.0	29.5
7	---	---	7.0	4.5	---	11.5	16.5	24.5	26.5	31.0	---	29.0
8	17.0	11.5	7.0	---	6.5	11.5	16.5	23.0	26.5	31.5	30.5	28.0
9	---	13.0	---	---	6.5	---	16.5	---	26.5	32.0	31.0	28.0
10	22.0	14.5	---	2.0	6.5	---	18.5	23.0	27.0	---	31.5	28.5
11	19.5	---	7.0	2.0	---	13.5	19.0	23.0	26.5	29.5	31.0	29.5
12	19.5	---	8.5	2.0	5.5	13.5	---	23.5	26.5	30.5	30.5	---
13	---	---	7.0	2.0	9.0	---	19.5	24.0	---	30.5	30.5	29.0
14	20.5	---	8.0	3.0	---	---	20.0	24.5	27.0	30.5	---	25.5
15	20.5	8.5	8.0	3.5	9.0	15.5	20.0	24.5	---	---	---	---
16	---	9.5	8.0	3.0	9.0	15.5	20.5	25.0	---	31.0	31.0	26.0
17	18.0	9.5	8.5	---	9.5	16.0	20.5	25.0	26.5	30.5	31.0	26.5
18	---	9.5	8.5	---	10.0	16.5	---	25.5	---	31.0	29.5	28.0
19	---	---	9.5	---	10.0	---	20.5	25.5	---	31.0	29.5	26.5
20	---	---	---	2.0	9.5	15.5	20.5	25.0	29.0	---	29.5	26.0
21	---	---	---	3.0	9.5	---	20.5	---	---	30.0	29.5	26.5
22	15.5	---	7.0	2.0	---	15.0	20.5	---	28.5	30.0	29.0	26.5
23	---	---	---	---	---	---	20.0	26.0	29.5	---	28.5	26.5
24	---	10.5	6.5	4.0	12.0	15.0	20.5	26.5	29.5	---	30.0	27.0
25	15.5	---	6.5	4.5	---	15.0	20.0	26.5	29.5	---	---	---
26	---	14.0	---	---	---	---	20.0	26.0	29.5	30.5	30.0	27.0
27	---	---	---	6.0	11.5	---	---	26.5	28.5	29.0	---	27.0
28	13.5	---	---	---	12.0	---	20.5	26.0	29.0	29.0	30.5	---
29	---	---	7.0	5.0	---	16.5	21.0	---	29.0	29.5	29.5	26.5
30	---	7.0	---	---	---	16.5	21.5	26.5	28.5	28.5	29.5	26.5
31	13.5	---	---	4.5	---	17.0	---	27.0	---	---	29.5	---

07344410 RED RIVER ABOVE SHREVEPORT, LA
(National stream-quality accounting network station)

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 (4.3 km) northeast of Shreveport Courthouse, 4.9 mi (7.9 km) upstream from mouth of Cross Bayou, 5.4 mi (8.7 km) upstream from gaging station at Illinois Central Railroad bridge at Shreveport (station 07348500), and at mile 282.5 (454.5 km).

DRAINAGE AREA.--57,100 mi² (147,890 km²) approximately, of which 5,936 mi² (15,374 km²) above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1975, October 1976 to current year.

WATER TEMPERATURES: October 1974 to September 1975, October 1976 to current year.

REMARKS.--This station will be discontinued as part of the National stream-quality accounting network but will continue in cooperation with state and other federal agencies.

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 FOR CURRENT YEAR.--

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

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

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Minimum, 2.5°C Jan. 15, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM PER 100 ML	FECAL COLIFORM .7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 28...	1600	824	7.9	13.5	60	30	10.2	20	3.0	--	827	835
NOV 16...	0730	413	7.6	8.5	10	15	10.4	18	3.4	81600	330	835
DEC 22...	0800	438	7.9	7.0	40	55	10.8	23	3.3	620	210	818
JAN 13...	0810	955	7.8	3.0	30	30	--	13	--	2300	240	500
FEB 10...	0915	386	7.5	6.5	50	75	11.8	31	--	8500	871	--
MAR 22...	0830	200	7.1	15.0	80	65	10.0	29	4.0	200	90	--
APR 20...	1130	322	6.9	21.0	60	70	--	--	--	--	690	--
MAY 17...	1630	833	7.7	26.0	15	20	8.4	25	2.8	--	832	--
JUN 08...	1300	1820	8.1	26.5	5	70	6.9	32	.1	82300	832	--
JUL 19...	0730	1220	8.0	30.5	20	15	7.3	30	3.8	880	<5	--
AUG 17...	0815	1450	8.2	30.5	3	10	7.6	18	3.4	--	--	--
SEP 07...	0800	1450	8.1	28.5	20	25	7.6	32	3.5	480	--	--

RED RIVER BASIN

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT 28...	--	180	93	50	14	85	50	2.7	3.8	109	0
NOV 16...	--	130	7	37	9.8	30	32	1.1	2.8	150	0
DEC 22...	--	110	43	30	7.8	39	43	1.6	3.1	78	0
JAN 13...	--	210	120	54	18	110	53	3.3	3.8	111	0
FEB 10...	--	97	31	28	6.5	37	45	1.6	2.9	80	0
MAR 22...	70	69	18	22	3.3	14	30	.7	2.4	62	0
APR 20...	96	97	28	28	6.6	26	36	1.1	2.3	84	0
MAY 17...	88	220	94	63	15	75	42	2.2	3.7	153	0
JUN 08...	834	370	240	94	32	240	58	5.5	6.0	160	0
JUL 19...	170	290	140	73	25	140	51	3.6	4.6	183	0
AUG 17...	38	350	170	90	26	160	50	3.7	5.2	210	0
SEP 07...	1000	330	160	94	22	150	50	3.6	5.3	198	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT 28...	89	2.2	91	140	.3	5.1	451	443	.61	.03	.01
NOV 16...	123	6.0	31	39	.1	6.5	224	230	.30	.03	.00
DEC 22...	64	1.6	50	62	.0	5.2	245	236	.33	.12	.02
JAN 13...	91	2.8	120	170	.2	5.6	538	536	.73	.14	.01
FEB 10...	66	4.0	41	50	.1	6.2	228	211	.31	.23	.01
MAR 22...	51	7.9	18	17	.1	6.4	128	114	.17	.11	.02
APR 20...	69	17	31	39	.1	5.7	176	180	.24	.15	.04
MAY 17...	130	4.9	83	120	.1	5.7	469	441	.64	.00	.01
JUN 08...	130	2.0	230	370	.2	5.9	1120	1060	1.52	.17	.01
JUL 19...	150	2.9	130	210	.2	5.3	723	678	.98	.01	.00
AUG 17...	170	2.1	150	240	.4	6.6	842	787	1.15	.00	.01
SEP 07...	160	2.5	170	250	.3	8.0	835	797	1.14	.00	.01

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)
OCT 28...	.04	.76	.51	.80	3.5	.06	5600	2	1	--	--	0
NOV 16...	.03	.65	.64	.68	3.0	.07	630	1	1	--	--	0
DEC 22...	.14	.64	--	.78	3.5	.12	970	2	1	--	--	0
JAN 13...	.15	.78	.71	.93	4.1	.13	8900	2	1	--	--	0
FEB 10...	.24	--	--	--	--	.15	4600	1	1	--	--	0
MAR 22...	.13	.81	.78	.94	4.2	.12	--	2	2	0	0	0
APR 20...	.19	.90	.52	1.1	4.8	.21	--	5	1	0	0	0
MAY 17...	.01	.75	.36	.76	3.4	.10	--	2	--	0	0	0
JUN 08...	.18	.99	.78	1.2	5.2	.17	--	3	1	0	0	0
JUL 19...	.01	.96	.51	.97	4.3	.06	--	2	1	0	0	2
AUG 17...	.01	.64	.53	.65	2.9	.08	--	2	1	0	0	0
SEP 07...	.01	.19	.06	.20	.90	.08	--	1	1	0	0	10

DATE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
OCT 28...	0	<10	0	0	1	0	3	3	1700	20	5	0
NOV 16...	0	20	--	0	--	--	8	8	--	70	0	0
DEC 22...	0	10	--	0	--	--	13	13	--	40	4	2
JAN 13...	0	10	0	0	0	0	--	11	1900	50	3	0
FEB 10...	0	10	--	0	--	--	7	6	--	70	6	3
MAR 22...	0	<10	--	0	--	--	5	4	--	100	4	0
APR 20...	0	20	12	0	3	0	10	3	6500	50	6	0
MAY 17...	0	0	--	0	--	--	6	6	--	250	8	6
JUN 08...	0	20	--	0	--	--	12	0	--	20	10	2
JUL 19...	0	<10	0	0	0	0	15	7	830	10	4	4
AUG 17...	0	10	--	0	--	--	10	3	--	40	4	4
SEP 07...	1	0	--	0	--	--	5	5	--	30	3	1

RED RIVER BASIN

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)
OCT 28...	180	20	.0	.0	5	4	0	0	30	10	--
NOV 16...	--	--	.0	.0	3	3	--	--	20	20	--
DEC 22...	--	--	.0	.0	2	1	--	--	10	10	--
JAN 13...	30	20	.1	.0	2	1	1	0	10	10	--
FEB 10...	--	--	.0	.0	6	3	--	--	10	0	--
MAR 22...	--	--	.0	.0	10	0	0	0	80	20	--
APR 20...	170	0	.0	.0	12	0	0	0	30	10	<3.1
MAY 17...	--	--	.2	.2	14	14	0	--	40	40	--
JUN 08...	--	--	.0	.0	20	0	0	0	40	10	--
JUL 19...	180	10	.0	.0	9	0	0	0	20	0	<8.9
AUG 17...	--	--	.1	.0	--	4	0	0	10	10	--
SEP 07...	--	--	.0	.0	2	2	1	1	10	20	--

DATE	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE D GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)	DIS- SOLVED URANIUM (U) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)
OCT 28...	--	--	--	--	--	--	--	7.0	.00	2	16	.0
NOV 16...	--	--	--	--	--	--	--	6.4	.00	3	0	.0
DEC 22...	--	--	--	--	--	--	--	11	.00	1	2	.0
JAN 13...	--	--	--	--	--	--	--	4.2	.00	4	0	.0
FEB 10...	--	--	--	--	--	--	--	--	.00	0	1	.0
MAR 22...	--	--	--	--	--	--	--	8.5	.00	0	3	.0
APR 20...	5.1	16	4.2	13	.06	--	.30	--	--	--	--	.0
MAY 17...	--	--	--	--	--	--	--	6.7	.00	0	0	.0
JUN 08...	--	--	--	--	--	--	--	4.7	.00	0	0	.0
JUL 19...	8.0	.9	6.9	.8	.15	1.4	--	5.3	.00	0	1	.0
AUG 17...	--	--	--	--	--	--	--	5.1	.00	4	0	.0
SEP 07...	--	--	--	--	--	--	--	5.0	.00	3	0	.0

RED RIVER BASIN

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07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

DATE	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ATRA- ZINE (UG/L)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)
OCT 28...	0	.00	.0	.00	.0	--	.0	0	.00	.4	.00	1.1
NOV 16...	--	.00	--	.00	--	--	.0	--	.00	--	.00	--
DEC 22...	--	.00	--	.00	--	--	.0	--	.00	--	.00	--
JAN 13...	0	.00	.0	.00	.0	--	.0	0	.00	.0	.00	1.0
FEB 10...	--	.00	--	.00	--	--	.0	--	.00	--	.00	--
10...	--	--	--	ND	--	ND	ND	--	ND	--	ND	--
MAR 22...	--	.00	--	.00	--	--	.0	--	.00	--	.00	--
APR 20...	0	.00	.0	.00	.0	--	.0	0	.00	.0	.00	1.0
MAY 17...	--	.00	--	.00	--	--	.0	--	.00	--	.00	--
JUN 08...	--	.00	--	.000	--	--	.0	--	.000	--	.003	--
JUL 19...	0	.00	.0	.000	.6	--	.0	0	.000	.9	.000	3.1
AUG 17...	--	.00	--	.000	--	--	.0	--	.000	--	.000	--
SEP 07...	--	.00	--	.001	--	--	.0	--	.000	--	.000	--

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)
OCT 28...	.00	.0	.01	.0	.00	.0	.00	.0	.00	.0	.00	.0
NOV 16...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--
DEC 22...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--
JAN 13...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
FEB 10...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--
10...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR 22...	.00	--	.02	--	.00	--	.00	--	.00	--	.00	--
APR 20...	.00	.5	.01	.0	.00	.0	.00	.0	.00	.0	.00	.0
MAY 17...	.00	--	.02	--	.02	--	.00	--	.00	--	.00	--
JUN 08...	.000	--	.00	--	.000	--	.000	--	.00	--	.000	--
JUL 19...	.000	.0	.00	.0	.000	.0	.000	.0	.00	.0	.000	.0
AUG 17...	.000	--	.01	--	.000	--	.000	--	.00	--	.000	--
SEP 07...	.000	--	.00	--	.000	--	.000	--	.00	--	.000	--

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)
OCT 28...	.00	.0	.00	.0	.00	.0	--	.00	.0	.00	.0	--
NOV 16...	.00	--	.00	--	.00	--	--	.00	--	.00	--	--
DEC 22...	.00	--	.00	--	.00	--	--	.00	--	.00	--	.00
JAN 13...	.00	.0	.00	.0	.00	.0	--	.00	.0	.00	.0	--
FEB 10...	.00	--	.00	--	.00	--	--	.00	--	.00	--	.00
10...	ND	--	ND	--	ND	--	ND	ND	--	ND	--	--
MAR 22...	.00	--	.00	--	.00	--	--	.00	--	.00	--	--
APR 20...	.00	.0	.00	.0	.00	.0	--	.00	.0	.00	.0	.00
MAY 17...	.00	--	.00	--	.00	--	--	.00	--	.00	--	.00
JUN 08...	.000	--	.000	--	.00	--	.00	.00	--	.00	--	.00
JUL 19...	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00	.0	.00
AUG 17...	.000	--	.000	--	.00	--	.00	.04	--	.00	--	.00
SEP 07...	.000	--	.000	--	.00	--	.00	.01	--	.00	--	.00

DATE	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	SIMA- ZINE TOTAL (UG/L)
OCT 28...	.0	.00	.0	0	0	.00	.0	.00	.00	.00	--
NOV 16...	--	.00	--	0	--	.00	--	.00	.00	.00	--
DEC 22...	--	.00	--	0	--	.00	--	.00	.00	.00	--
JAN 13...	.0	.00	.0	0	0	.00	.0	.00	.00	.00	--
FEB 10...	--	.00	--	0	--	.00	--	.00	.00	.00	--
10...	--	ND	--	ND	--	ND	--	ND	ND	ND	ND
MAR 22...	--	.00	--	0	--	.00	--	.00	.00	.00	--
APR 20...	.0	.00	.0	0	0	.00	.0	.03	.00	.00	--
MAY 17...	--	.00	--	0	--	.00	--	.02	.00	.00	--
JUN 08...	--	.00	--	.0	--	.00	--	.01	.01	.00	--
JUL 19...	.0	.00	.0	.0	0	.00	.0	.00	.12	.00	--
AUG 17...	--	.00	--	.0	--	.00	--	.00	.04	.00	--
SEP 07...	--	.00	--	.0	--	.00	--	.00	.01	.00	--

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	923	871	839	372	317	263	336	1740	1540	1360	852
2	1100	939	941	822	307	315	246	334	1750	1620	1320	767
3	1090	975	687	951	308	277	213	335	1780	1480	1190	760
4	1200	773	716	1090	429	465	189	331	1820	1360	1220	644
5	1200	775	718	1000	429	353	185	358	1880	1330	1210	1230
6	1290	641	737	999	418	276	178	553	1880	1100	1270	1390
7	1270	639	735	1000	420	204	172	551	---	1090	1030	1410
8	1090	530	877	726	384	173	170	544	---	986	1020	1460
9	1080	601	942	1010	---	200	166	543	1810	987	964	1480
10	862	616	1040	1050	389	191	166	586	1800	1090	---	585
11	881	595	954	1010	351	183	188	615	1860	1100	---	559
12	732	531	779	1040	226	214	188	614	1860	1200	---	576
13	722	474	622	750	289	214	221	506	1840	1210	---	631
14	634	446	641	750	208	185	235	506	1770	1210	---	636
15	636	445	469	544	212	186	256	535	1710	981	---	667
16	714	432	474	562	213	179	242	567	1700	1080	---	674
17	635	451	457	609	226	163	264	833	1710	1080	1480	792
18	633	468	425	696	226	172	262	946	1730	1100	---	---
19	469	566	474	645	224	250	337	770	1660	1240	1480	828
20	375	1140	535	516	225	255	336	906	1660	1400	1520	1090
21	357	1160	561	439	205	---	492	1110	1600	---	1730	1090
22	368	1090	501	439	185	188	492	1110	1460	1360	1600	1420
23	376	1200	---	423	179	172	299	1220	1450	1230	1590	1410
24	376	1250	---	307	178	---	266	1220	1390	1240	1550	1250
25	463	---	487	398	233	203	265	1300	1400	1320	---	877
26	462	1060	562	397	335	202	292	1460	1380	1390	1310	884
27	508	976	516	399	331	219	318	1460	1340	1390	1220	888
28	891	974	554	438	313	246	322	1460	1340	1360	1220	1090
29	896	949	556	486	---	251	330	1580	1430	1320	1460	1220
30	909	934	529	415	---	336	338	1390	1500	1230	1650	1290
31	922	---	826	347	---	308	---	1700	---	1240	850	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	14.0	9.0	6.0	5.5	12.0	16.5	22.0	28.0	29.5	29.0	30.0
2	25.0	14.0	8.5	---	6.0	12.0	17.5	22.5	28.0	30.0	28.0	29.0
3	25.0	14.0	9.0	6.0	7.0	15.0	17.5	23.0	28.0	30.0	30.0	29.0
4	25.0	14.0	9.0	6.0	8.0	13.5	16.0	24.0	---	30.0	29.0	29.5
5	24.0	13.0	10.0	6.5	9.0	13.0	16.0	23.5	28.0	30.0	29.0	30.0
6	22.0	14.0	11.0	6.0	9.0	12.0	17.0	24.0	28.0	28.0	29.0	28.5
7	20.0	14.0	9.0	8.0	8.0	11.0	18.0	24.5	---	28.0	29.0	28.0
8	18.0	13.0	10.0	8.0	8.0	12.0	19.5	23.5	---	30.0	29.0	28.0
9	17.0	17.0	9.0	6.0	---	13.5	19.5	23.0	27.0	30.0	30.5	26.0
10	20.0	16.0	11.0	5.0	9.5	14.0	19.5	22.5	27.0	29.0	---	28.0
11	19.0	14.0	11.0	5.0	8.5	15.0	20.0	21.0	28.0	29.0	---	28.0
12	19.0	12.0	11.0	5.0	10.0	15.0	20.0	21.5	28.0	29.0	---	27.5
13	19.5	10.0	10.0	5.5	10.0	15.5	20.0	24.0	28.0	29.5	---	28.0
14	20.0	10.0	9.0	5.5	12.0	16.5	21.0	25.0	26.0	30.0	---	26.0
15	20.0	9.0	9.5	5.5	11.0	17.0	21.5	22.0	26.0	30.0	---	25.0
16	19.0	15.0	10.0	5.0	11.0	17.5	21.0	25.0	26.0	29.0	---	24.0
17	16.0	10.0	11.0	5.0	11.0	16.5	22.0	25.5	26.0	29.5	30.0	26.0
18	19.0	12.0	10.0	5.0	11.0	17.5	22.5	25.0	28.0	30.0	---	---
19	18.0	12.0	11.0	4.5	12.0	16.5	22.0	25.5	28.0	30.0	29.5	25.0
20	17.0	12.0	9.5	6.0	12.5	16.0	21.0	26.0	29.0	29.5	29.0	25.0
21	17.0	10.5	8.0	5.5	12.0	---	20.5	26.0	28.0	---	28.5	26.0
22	17.0	11.0	8.0	5.0	14.0	16.0	20.0	26.0	28.0	29.5	28.0	25.0
23	18.0	13.0	9.0	5.0	13.0	15.0	21.0	26.5	28.0	30.0	28.5	25.5
24	18.0	13.0	9.0	6.0	12.0	---	20.0	27.0	29.0	31.0	29.5	26.0
25	17.0	---	11.0	7.0	15.0	15.5	20.0	26.5	29.0	32.0	---	26.0
26	17.0	15.0	8.0	7.5	14.0	16.0	19.0	27.0	28.5	31.0	28.0	---
27	16.0	11.0	9.0	8.0	14.0	18.0	21.5	27.0	29.0	31.0	29.0	26.0
28	15.0	9.0	9.0	9.0	13.0	18.5	22.0	27.0	29.0	28.0	29.0	26.0
29	13.0	9.0	10.0	7.0	---	19.0	22.0	27.0	29.0	29.0	30.0	27.0
30	14.0	8.5	10.0	6.0	---	18.5	22.0	27.0	29.5	28.0	30.0	26.0
31	14.0	---	7.0	6.5	---	16.0	---	28.0	---	29.0	30.0	---

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT. 28, 1976 1600 HOURS

PHYTOPLANKTON 5,600 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...COELASTRACEAE		
...COELASTRUM	310	6
...OOCYSTACEAE		
...ANKISTRODESMUS	56	1
...OOCYSTIS	280	5
...QUADRIGULA	110	2
...TETRAEDRON	110	2
...SCENEDESMACEAE		
...ACTINASTRUM	170	3
...SCENEDESMUS	1,400	25
...TETRASTRUM	110	2
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
...CHLAMYDOMONAS	56	1
..ZYGNEATALES		
...DESMIDIACEAE		
...SPONDYLIUM	56	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCEAE		
...CYCLOTELLA	140	3
...MELOSIRA	540	10
..PENNALES		
...FRAGILIARIACEAE		
...FRAGILARIA	28	1
...NITZSCHACEAE		
...NITZSCHIA	560	10
CYANOPHYTA		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...NOSTOCACEAE		
...APHANIZOMENON	230	4
...CYLINDROSPERMUM	510	9
...OSCILLATORIA	900	16

NOV. 16, 1976 0730 HOURS

PHYTOPLANKTON 630 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
...ANKISTRODESMUS	180	29
...SCENEDESMACEAE		
...CRUCIGENIA	26	4
...SCENEDESMUS	51	8
..ZYGNEATALES		
...DESMIDIACEAE		
...COSMARIUM	26	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCEAE		
...CYCLOTELLA	280	45
CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...MALLOMONADACEAE		
...MALLOMONAS	13	2
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE	51	8
...TRACHELOMONAS		

DEC. 22, 1976 0800 HOURS

PHYTOPLANKTON 970 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...HYDRODICTYACEAE		
...PEDIASTRUM	86	9

DEC. 22, 1976 0800 HOURS --Continued

PHYTOPLANKTON 970 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
...OOCYSTACEAE		
...ANKISTRODESMUS	7	1
...DICTYOSPHAERIUM	86	9
...OOCYSTIS	29	3
...SCENEDESMACEAE		
...CRUCIGENIA	130	13
...SCENEDESMUS	29	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCEAE		
...CYCLOTELLA	170	17
..PENNALES		
...GOMPHONEMACEAE		
...GOMPHONEMA	7	1
...NAVICULACEAE		
...NOVICULA	50	5
CYANOPHYTA		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIA	72	7
...OSCILLATORIA	290	30
EUGLENOPHYTA		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
...CRYPTOMONAS	7	1
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
...TRACHELOMONAS	14	1

JAN. 13, 1977 0810 HOURS

PHYTOPLANKTON 8,900 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
...ANKISTRODESMUS	700	8
...KIRCHNERIELLA	160	2
...NEPHROCYTIUM	780	9
...OOCYSTIS	350	4
...SCENEDESMACEAE		
...CRUCIGENIA	2,300	26
...SCENEDESMUS	230	3
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
...CHLAMYDOMONAS	500	6
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCEAE		
...COSCINODISCUS		0
...CYCLOTELLA	700	8
...MELOSIRA	930	10
...STEPHANODISCUS	430	5
..PENNALES		
...NAVICULACEAE		
...NAVICULA	78	1
...NITZSCHACEAE		
...CYLINDROTHECA		0
...NITZSCHIA	230	3
...SURIPELLACEAE		
...SURIPELLA		0
CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...SYNURACEAE		
...SYNURA	230	3
EUGLENOPHYTA		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE	430	5
CYANOPHYTA		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
...COCCOCHLORIS	430	5
...LYNGBYA	230	3

07344450 PAW PAW BAYOU NEAR GREENWOOD, LA

LOCATION.--Lat 32°31'00", long 93°58'20", in SE¼ sec.26, T.18 N., R.16 W., Caddo Parish, Hydrologic Unit 11140304, near center of span on downstream side of bridge on State Highway 169, 1 mi (2 km) upstream from Cross Lake, 5.1 mi (8.2 km) north of Greenwood, and 11 mi (18 km) west of Shreveport.

DRAINAGE AREA.--78 mi² (202 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 170.35 ft (51.923 m) above mean sea level (Louisiana Geodetic Survey bench mark).

REMARKS.--Records fair. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--22 years, 63.0 ft³/s (1.784 m³/s), 10.97 in/yr (279 mm/yr), 45,600 acre-ft/yr (56.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,310 ft³/s (207 m³/s) Apr. 27, 1958, gage height, 13.84 ft (4.218 m), from rating curve extended above 2,400 ft³/s (68 m³/s); no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s or 34 m³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 12	2215	*1630 46.2	9.93 3.027	Mar. 29	0115	1260 35.7	9.55 2.911

No flow June 28 to July 9, July 13-27, Aug. 9-14, Sept. 3-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.86	2.2	2.7	2.3	12	11	60	4.1	.14	0	1.6	.06
2	.60	2.4	2.2	2.2	27	11	49	9.0	.12	0	.66	.01
3	.45	1.4	1.9	2.3	48	47	78	16	.11	0	.20	0
4	.31	1.0	1.6	2.5	93	351	147	9.1	.10	0	.14	0
5	.22	.71	1.4	2.9	80	559	105	5.4	.19	0	.06	0
6	.16	.53	2.7	4.3	40	367	58	4.0	.32	0	.05	0
7	.10	.42	30	6.6	22	101	33	3.2	.22	0	.02	0
8	.06	.37	36	11	15	56	23	2.9	.18	0	.01	0
9	.05	.30	11	38	12	42	17	3.0	.13	0	0	0
10	.04	.26	5.7	136	10	36	14	3.7	.09	.01	0	0
11	.03	.24	13	99	93	48	12	3.9	.05	.02	0	0
12	.02	.22	126	27	904	137	9.7	2.9	.03	.01	0	0
13	.02	.22	173	18	1180	156	8.6	2.3	.74	0	0	0
14	.01	.38	62	162	597	70	7.9	1.9	1.8	0	0	0
15	.01	.35	19	288	197	45	6.9	1.6	1.5	0	3.1	0
16	.01	.29	11	213	71	35	6.4	1.4	12	0	1.8	0
17	.02	.27	7.9	54	47	28	6.6	1.3	9.1	0	.46	0
18	.02	.27	6.2	25	38	24	25	1.1	5.0	0	2.3	0
19	.02	.29	4.9	15	32	22	36	.94	2.0	0	6.1	0
20	.03	.44	4.3	12	27	19	22	.78	.90	0	2.4	0
21	.02	.39	3.7	10	23	16	49	.74	.43	0	1.4	0
22	.02	.31	3.5	9.1	20	14	24	.60	.24	0	1.7	0
23	.02	.25	3.4	9.1	20	13	13	.52	.10	0	2.1	0
24	.03	.26	3.1	11	19	12	8.5	.67	.05	0	2.0	0
25	.04	.57	2.9	18	18	12	6.2	1.5	.03	0	5.9	0
26	.03	1.5	3.0	17	16	17	4.8	1.2	.02	0	2.4	0
27	.03	1.6	3.1	13	14	294	4.4	.63	.01	0	1.5	0
28	.02	2.4	3.1	11	12	906	3.8	.42	0	.45	1.3	0
29	.19	4.5	3.0	9.3	---	1070	3.4	.33	0	9.3	1.0	0
30	.31	3.4	2.7	8.2	---	626	3.2	0	2.5	.62	0	0
31	.09	---	2.5	8.3	---	196	---	.19	---	1.0	.31	---
TOTAL	3.84	27.74	556.5	1245.1	3687	5341	845.4	85.56	35.60	13.29	39.13	.07
MEAN	.12	.92	18.0	40.2	132	172	28.2	2.76	1.19	.43	1.26	.002
MAX	.86	4.5	173	288	1180	1070	147	16	12	9.3	6.1	.06
MIN	.01	.22	1.4	2.2	10	11	3.2	.19	0	0	0	0
CFSM	.001	.01	.23	.52	1.69	2.21	.36	.04	.02	.005	.02	0
IN.	.002	.01	.27	.59	1.76	2.55	.40	.04	.02	.006	.02	.00003
AC-FT	7.6	55	1100	2470	7310	10590	1680	170	71	26	78	.1
CAL YR 1976	TOTAL	18212.64	MEAN	49.8	MAX	1290	MIN	0	CFSM	.64	IN	8.69
WTR YR 1977	TOTAL	11880.23	MEAN	32.5	MAX	1180	MIN	0	CFSM	.42	IN	5.67
									AC-FT	36120	AC-FT	23560

RED RIVER BASIN

07344450 PAW PAW BAYOU NEAR GREENWOOD, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.44	1.63	1.78	1.71	2.51	2.37	3.95	1.88	1.21	.94	1.59	1.22
2	1.37	1.73	1.70	1.70	3.09	2.34	3.67	2.25	1.20	---	1.43	1.16
3	1.33	1.56	1.64	1.72	3.69	3.35	4.41	2.58	1.19	---	1.29	1.12
4	1.27	1.48	1.60	1.74	4.79	7.54	5.79	2.26	1.18	---	1.27	1.09
5	1.24	1.40	1.57	1.81	4.49	8.31	5.06	2.01	1.22	---	1.22	1.07
6	1.21	1.35	1.77	1.98	3.47	7.52	3.92	1.89	1.28	---	1.22	1.04
7	1.18	1.32	3.08	2.19	2.95	4.94	3.18	1.80	1.25	---	1.18	.99
8	1.16	1.29	3.36	2.49	2.70	3.86	2.84	1.77	1.23	---	1.14	.96
9	1.15	1.27	2.46	3.33	2.55	3.46	2.63	1.78	1.20	---	1.10	.96
10	1.13	1.25	2.12	5.61	2.45	3.26	2.50	1.86	1.18	.95	1.07	.96
11	1.10	1.25	2.51	4.84	4.17	3.59	2.40	1.88	1.15	1.18	.98	.95
12	1.09	1.24	5.40	3.10	8.87	5.59	2.30	1.77	1.13	1.15	.94	.95
13	1.07	1.24	6.14	2.80	9.45	5.88	2.24	1.68	1.32	1.12	---	.95
14	1.06	1.30	4.03	5.69	8.38	4.23	2.19	1.62	1.60	1.09	---	.95
15	1.05	1.28	2.82	7.19	6.22	3.56	2.13	1.58	1.55	1.04	1.75	.95
16	1.06	1.27	2.47	6.44	4.26	3.24	2.09	1.55	2.37	---	1.62	.94
17	1.08	1.26	2.29	3.85	3.61	3.02	2.11	1.52	2.27	---	1.37	---
18	1.07	1.26	2.15	3.03	3.33	2.88	2.88	1.48	1.99	---	1.67	---
19	1.09	1.27	2.04	2.70	3.14	2.79	3.27	1.46	1.67	---	2.08	---
20	1.11	1.32	1.98	2.54	2.97	2.68	2.79	1.43	1.48	---	1.71	---
21	1.09	1.30	1.91	2.43	2.85	2.59	3.65	1.42	1.37	---	1.57	---
22	1.10	1.27	1.89	2.37	2.75	2.52	2.88	1.39	1.30	---	1.61	---
23	1.10	1.25	1.87	2.37	2.72	2.46	2.44	1.36	1.25	---	1.68	---
24	1.11	1.25	1.83	2.50	2.70	2.40	2.23	1.39	1.22	---	1.66	---
25	1.14	1.36	1.81	2.80	2.66	2.40	2.08	1.56	---	---	2.06	---
26	1.12	1.57	1.82	2.78	2.57	2.60	1.97	1.50	---	---	1.73	---
27	1.11	1.59	1.84	2.58	2.50	7.00	1.91	1.39	---	---	1.58	---
28	1.10	1.72	1.84	2.47	2.42	9.02	1.87	1.33	---	---	1.56	---
29	1.20	1.99	1.82	2.38	---	9.30	1.83	1.29	1.10	2.24	1.51	---
30	1.27	1.88	1.78	2.31	---	8.45	1.81	1.26	1.06	1.74	1.42	---
31	1.17	---	1.74	2.31	---	6.14	---	1.23	---	1.50	1.33	---
MEAN	1.15	1.41	2.36	3.02	3.87	4.49	2.83	1.65	---	---	---	---
MAX	1.44	1.99	6.14	7.19	9.45	9.30	5.79	2.58	2.37	2.24	2.08	1.22
MIN	1.05	1.24	1.57	1.70	2.42	2.34	1.81	1.23	---	---	---	---

NOTE.--Less than lowest recordable stage of 0.94 ft, July 2-9, 16-28, Aug. 13, 14, Sept. 17-30.

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA

LOCATION.--Lat 32°38'45", long 93°52'40", in NW¼NW¼ sec.14, T.19 N., R.15 W., Caddo Parish, Hydrologic Unit 11140304, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mi (0.2 km) downstream from Cottonwood Bayou, 4.2 mi (6.8 km) south-west of Dixie, 5.5 mi (8.8 km) downstream from Caddo Lake, and 17.3 mi (27.8 km) upstream from mouth.

DRAINAGE AREA.--3,137 mi² (8,125 km²).

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

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 140.00 ft (42.672 m) above mean sea level. Prior to Sept. 5, 1947, nonrecording gage and Sept. 5, 1947, to Sept. 30, 1950, water-stage recorder at datum 5.88 ft (1.792 m) higher. Oct. 1, 1950, to Sept. 30, 1962, water-stage recorder at datum 3.88 ft (1.183 m) higher. Nonrecording gage for Red River at Shreveport (sta 07348500) read once daily used as auxiliary gage for this station.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Flow regulated by 3 reservoirs (combined usable capacity, 1,033,700 acre-ft or 1.27 km³, of which 587,200 acre-ft or 0.724 km³ is available for flood storage) since August 1957. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--35 years, 2,605 ft³/s (73.77 m³/s), 11.28 in/yr (287 mm/yr), 1,887,000 acre-ft/yr (2.33 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,400 ft³/s (1,090 m³/s) May 5, 1958; maximum daily reverse flow, 50 ft³/s (1.42 m³/s) Aug. 5, 1975 (backwater from Red River); maximum gage height, 39.53 ft (12.049 m) Apr. 5, 1945, and May 5, 1958, present datum; minimum discharge (unaffected by backwater), 0.08 ft³/s (0.002 m³/s) Aug. 24, 1972; minimum gage height, -0.24 ft (-0.073 m) Sept. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,860 ft³/s (279 m³/s) Apr. 5, gage height, 20.78 ft (6.334 m); minimum daily discharge (unaffected by backwater), 14 ft³/s (0.396 m³/s) July 15-19; minimum gage height, -0.24 ft (-0.073 m) Sept. 25, but may have been less during period of no gage-height record July 17 to Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	286	100	210	2700	1540	4870	8840	4990	258	87	250	45		
2	263	98	200	2500	1440	4160	8850	4900	235	60	280	40		
3	230	101	190	2100	1570	4360	8600	4470	264	40	300	35		
4	177	116	180	1800	1850	6120	9230	4050	304	30	270	30		
5	205	81	300	1600	1930	6780	9730	3650	306	20	250	30		
6	163	100	500	1400	1930	7400	9630	3280	361	15	240	35		
7	105	89	900	1500	1950	7820	9800	3010	258	15	230	40		
8	167	65	1500	1600	1850	7800	9780	2720	210	16	214	45		
9	148	106	2000	1600	2210	7700	9840	2690	170	15	205	50		
10	100	74	2000	1700	2350	7550	9710	2780	150	15	189	45		
11	93	57	2500	1700	2980	7580	9290	2740	180	15	172	40		
12	93	54	3000	1800	5110	8200	8870	2620	243	15	156	35		
13	77	49	3500	1900	6000	7740	8370	2520	235	15	143	25		
14	76	54	3600	2000	6460	7240	7870	2400	145	15	131	20		
15	74	89	4000	2000	6970	6760	7300	2090	164	14	121	22		
16	73	87	4380	2100	7540	5940	6700	1770	234	14	109	23		
17	68	82	4580	2400	8100	5580	6030	1510	291	14	98	21		
18	65	97	4720	2660	8520	5270	5730	1260	321	14	95	20		
19	71	139	4810	2260	8900	4680	5190	1070	333	14	87	18		
20	100	150	5170	2310	9080	4220	4770	836	311	20	77	18		
21	77	106	4690	2280	8890	4040	4450	682	301	30	73	19		
22	71	90	4470	2090	8450	3600	4560	563	297	40	77	18		
23	66	100	4350	2050	8410	3300	4610	480	275	50	82	17		
24	63	173	4060	2160	7820	3010	4580	431	270	70	103	16		
25	113	259	3900	2070	7340	2770	4930	419	284	70	156	16		
26	76	241	3770	2010	7060	2650	5040	463	248	60	148	16		
27	68	240	3570	1870	6550	3730	5260	522	203	50	117	16		
28	58	250	3390	1760	5500	6170	5500	461	170	90	95	16		
29	100	230	3200	1650	---	7290	5480	343	140	130	76	17		
30	150	220	3080	1600	---	7960	5270	430	126	200	58	17		
31	120	---	2820	1640	---	8350	---	397	---	200	50	---		
TOTAL	3596	3697	89540	60810	148300	180640	213710	60547	7287	1453	4652	805		
MEAN	116	123	2888	1962	5296	5827	7124	1953	243	46.9	150	26.8		
MAX	286	259	5170	2700	9080	8350	9840	4990	361	200	300	50		
MIN	58	49	180	1400	1440	2650	4450	343	126	14	50	16		
CFSM	.04	.04	.92	.63	1.69	1.86	2.27	.62	.08	.01	.05	.008		
IN.	.04	.04	1.06	.72	1.76	2.14	2.53	.72	.09	.02	.06	.010		
AC-FT	7130	7330	177600	120600	294200	358300	423900	120100	14450	2880	9230	1600		
CAL YR 1976	TOTAL	617858	MEAN	1688	MAX	10300	MIN	14	CFSM	.54	IN	7.33	AC-FT	1226000
WTR YR 1977	TOTAL	775037	MEAN	2123	MAX	9840	MIN	14	CFSM	.68	IN	9.19	AC-FT	1537000

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.65	---	---	---	5.60	12.86	19.76	13.06	6.06	.60	---	---
2	1.52	.57	---	---	5.36	11.68	19.55	12.92	5.80	---	---	---
3	1.34	.59	---	---	5.68	12.02	19.15	12.20	5.75	---	---	---
4	1.04	.68	---	---	6.38	14.88	19.96	11.49	5.87	---	---	---
5	1.20	.46	---	---	6.58	15.90	20.66	10.74	6.24	---	---	---
6	.96	.58	---	---	6.58	16.85	20.55	9.94	6.52	---	---	---
7	.61	.51	---	---	6.62	17.46	20.60	9.28	6.20	-.19	---	---
8	.98	.36	---	---	6.37	17.43	20.48	8.55	5.17	-.18	1.25	---
9	.87	.62	---	---	7.27	17.29	20.46	8.48	4.44	-.19	1.20	---
10	.58	.42	---	---	7.62	17.07	20.30	8.71	4.08	-.19	1.11	---
11	.54	.31	---	---	9.14	17.12	19.75	8.59	3.74	-.19	1.01	---
12	.54	.29	---	---	13.26	18.00	19.20	8.30	2.86	-.19	.92	---
13	.44	.26	---	---	14.70	17.35	18.54	8.06	1.90	-.19	.84	---
14	.43	.29	10.63	---	15.40	16.60	17.90	7.75	1.32	-.20	.77	-.15
15	.42	.51	11.40	---	16.18	15.86	17.12	6.98	1.17	-.21	.71	-.12
16	.41	.50	12.05	---	17.06	14.60	16.22	6.18	1.52	-.22	.64	-.11
17	.38	.47	12.38	7.75	17.86	14.05	15.12	5.52	1.80	---	.57	-.13
18	.36	.56	12.61	8.40	18.46	13.54	14.56	4.88	1.94	---	.55	-.15
19	.40	.82	12.77	7.60	19.00	12.55	13.68	4.35	2.00	---	.50	-.19
20	.58	.88	13.37	7.80	19.22	11.78	13.08	3.72	1.89	---	.44	-.19
21	.44	.62	12.56	7.75	18.98	11.48	12.75	3.30	1.84	---	.41	-.18
22	.40	.52	12.20	7.20	18.36	10.65	13.02	2.95	1.82	---	.44	-.19
23	.37	.58	12.00	7.01	18.30	10.00	13.38	2.68	1.70	---	.47	-.21
24	.35	1.02	11.50	7.15	17.46	9.28	13.60	2.48	1.67	---	.60	-.23
25	.66	1.50	11.22	6.93	16.76	8.68	13.84	2.42	1.75	---	.92	-.24
26	.43	1.40	10.98	6.78	16.32	8.38	13.90	2.88	1.55	---	.87	-.23
27	.38	---	10.58	6.43	15.54	10.90	14.07	4.40	1.30	---	.69	-.23
28	.32	---	10.20	6.15	13.92	14.94	14.34	5.05	---	---	.55	-.23
29	---	---	9.75	5.88	---	16.67	14.20	5.01	---	---	.43	-.22
30	---	---	9.46	5.76	---	17.66	13.74	5.57	.85	---	.32	-.21
31	---	---	8.80	5.85	---	19.05	---	6.20	---	---	---	---
MEAN	---	---	---	---	12.86	14.28	16.78	6.86	---	---	---	---
MAX	1.65	---	13.37	---	19.22	19.05	20.66	13.06	6.52	---	---	---
MIN	.32	.26	---	---	5.36	8.38	12.75	2.42	.85	---	.32	-.24

07348500 RED RIVER AT SHREVEPORT, LA

LOCATION.--Lat 32°30'55", long 93°44'25", in SE¼SE¼ sec.30, T.18 N., R.13 W., Caddo Parish, Hydrologic Unit 11140202, on second pier from east bank, at Illinois Central Railroad Co. bridge at Shreveport, 0.5 mi (0.8 km) downstream from Cross Bayou.

DRAINAGE AREA.--60,613 mi² (156,988 km²), of which 5,936 mi² (15,374 km²) above Denison Dam is noncontributing.

PERIOD OF RECORD.--August 1928 to September 1975. Daily gage heights since May 1873 and discharge intermittently 1872 to 1905 in reports of Mississippi River Commission.

REVISED RECORDS.--WSP 1211: Drainage area. WSP 1920: 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 131.48 ft (40.075 m) above mean sea level (levels by Corps of Engineers). Prior to June 1, 1918, nonrecording gage at same site at datum 10 ft (3.05 m) higher.

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

COOPERATION.--Gage-height record and computations of daily discharge furnished by Corps of Engineers.

AVERAGE DISCHARGE.--48 years (1928-76), 24,690 ft³/s (699.2 m³/s), 17,890,000 acre-ft/yr (22.1 km³/yr).
The figure published in the 1975 report was in error; the correct figure is
47 years (1928-75), 24,940 ft³/s (706.3 m³/s), 18,070,000 acre-ft/yr (22.3 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 303,000 ft³/s (8,580 m³/s) Apr. 5, 1945 (discharge measurement), maximum gage height, 37.9 ft (11.55 m) in gage well, 38.4 ft (11.70 m) from outside gage Apr. 7, 1945; minimum discharge, 690 ft³/s (19.5 m³/s) Oct. 30, 1956; minimum gage height, 0.24 ft (0.073 m) Nov. 9, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 45.9 ft (13.99 m), present datum, from water mark in August 1849 (affected by huge log raft).

EXTREMES FOR CURRENT YEAR. Water year 1975 (revised): Maximum daily discharge, 119,000 ft³/s (3,370 m³/s) Nov. 14; minimum daily, 5,100 ft³/s (144 m³/s) Sept. 16.

Water year 1976: Maximum daily discharge, 57,000 ft³/s (1,610 m³/s) Apr. 26; minimum daily, 3,600 ft³/s (102 m³/s) Nov. 18-19, 22-23.

REVISIONS.--Revised figures of discharge for the water year 1975, superseding those published in the report for 1975, are given herein.

RECORDS FOR THE 1977 WATER YEAR ARE NOT AVAILABLE IN TIME FOR INCLUSION IN THIS REPORT. THEY WILL BE PUBLISHED IN A SUBSEQUENT REPORT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87000	27000	87000	29000	16000	54000	74000	23000	71000	35000	11000	8300
2	85000	35000	93000	30000	27000	54000	79000	28000	72000	39000	11000	7700
3	79000	68000	93000	34000	50000	53000	80000	42000	69000	40000	16000	7100
4	71000	91000	89000	38000	90000	52000	80000	53000	61000	37000	25000	6900
5	67000	99000	81000	39000	115000	52000	78000	56000	59000	35000	31000	7600
6	57000	97000	77000	42000	112000	51000	75000	59000	57000	30000	33000	7600
7	51000	101000	76000	43000	99000	47000	71000	71000	65000	25000	33000	7400
8	45000	110000	78000	45000	94000	42000	66000	75000	62000	21000	33000	7100
9	41000	115000	85000	46000	94000	38000	62000	78000	57000	19000	29000	7000
10	39000	118000	87000	48000	98000	36000	59000	78000	58000	17000	24000	7000
11	36000	114000	85000	48000	93000	36000	56000	78000	59000	16000	19000	7300
12	33000	114000	81000	44000	87000	37000	62000	74000	62000	15000	16000	7600
13	32000	116000	76000	41000	80000	46000	66000	66000	75000	14000	15000	7000
14	30000	119000	73000	40000	79000	60000	62000	57000	85000	12000	14000	6100
15	29000	115000	72000	39000	78000	63000	55000	51000	76000	11000	13000	5500
16	27000	102000	72000	38000	77000	65000	46000	53000	70000	9700	13000	5100
17	25000	93000	64000	36000	72000	66000	42000	49000	67000	8600	13000	5200
18	23000	99000	57000	34000	65000	68000	38000	50000	65000	8100	13000	5300
19	21000	102000	52000	32000	60000	70000	35000	55000	70000	7700	12000	5400
20	19000	99000	48000	30000	56000	74000	33000	55000	73000	6000	13000	5300
21	18000	92000	44000	26000	48000	77000	31000	53000	68000	6300	13000	5300
22	16000	86000	41000	24000	41000	75000	31000	51000	62000	5700	13000	5800
23	15000	77000	39000	22000	39000	70000	30000	49000	56000	6700	13000	6900
24	14000	73000	37000	20000	36000	65000	29000	45000	49000	7700	13000	9200
25	13000	77000	35000	18000	34000	61000	29000	41000	45000	7800	12000	9500
26	12000	91000	33000	16000	36000	56000	27000	36000	39000	7800	12000	8900
27	11000	97000	31000	15000	39000	53000	26000	33000	35000	7800	12000	8400
28	11000	92000	30000	14000	47000	52000	24000	30000	32000	7900	11000	7900
29	12000	85000	29000	14000	---	51000	24000	29000	29000	8300	9800	7500
30	16000	84000	29000	14000	---	56000	23000	40000	29000	9300	9500	7100
31	22000	---	29000	14000	---	63000	---	60000	---	11000	8900	---
TOTAL	1057000	2788000	1903000	973000	1862000	1743000	1493000	1618000	1777000	492400	514200	210000
MEAN	34100	92930	61390	31390	66500	56230	49770	52190	59230	15880	16590	7000
MAX	87000	119000	93000	48000	115000	77000	80000	78000	85000	40000	33000	9500
MIN	11000	27000	29000	14000	16000	36000	23000	23000	29000	5700	8900	5100
AC-FT	2097000	5530000	3775000	1930000	3693000	3457000	2961000	3209000	3525000	976700	1020000	416500
CAL YR 1974	TOTAL	14243700	MEAN	39020	MAX	119000	MIN	3600	AC-FT	28250000		
WTR YR 1975	TOTAL	16430600	MEAN	45020	MAX	119000	MIN	5100	AC-FT	32590000		

RED RIVER BASIN

07348500 RED RIVER AT SHREVEPORT, LA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6900	7100	7800	7200	8300	8300	13000	42000	29000	24000	12000	3800
2	6500	7000	7000	8300	8000	8000	12000	38000	25000	25000	12000	3800
3	6300	7200	6000	9300	7500	8200	12000	31000	24000	25000	11000	4900
4	6100	7600	5400	10000	7600	8300	12000	27000	24000	26000	11000	5700
5	5400	7800	5100	11000	8000	9400	12000	21000	23000	25000	11000	6200
6	5500	7100	4900	11000	7900	11000	12000	18000	22000	22000	11000	6300
7	4600	6900	5200	11000	7500	11000	13000	15000	22000	21000	10000	5900
8	4800	6500	5800	11000	7100	15000	13000	14000	22000	22000	9700	5500
9	5100	5800	6500	11000	6700	24000	11000	19000	20000	23000	9200	5300
10	5300	5600	7500	10000	6300	38000	9100	27000	19000	23000	8900	5100
11	5500	5100	7300	9900	6000	49000	7800	35000	18000	20000	8500	5000
12	5600	4600	6700	9200	5900	51000	7400	36000	17000	16000	8200	5000
13	5500	4200	6200	8700	5700	48000	7000	32000	16000	15000	8000	5000
14	5300	4000	6000	8700	5600	48000	6800	30000	15000	13000	8100	5400
15	5300	4000	5800	9000	5600	50000	7100	29000	14000	13000	8300	5600
16	5400	4100	5100	9200	5600	47000	7500	30000	14000	13000	8400	5600
17	5200	3800	5100	9100	5500	44000	7200	29000	14000	14000	8500	5600
18	5400	3600	6100	7500	6000	38000	6900	31000	15000	14000	8200	5600
19	5500	3600	6400	6200	7100	33000	6400	37000	15000	15000	7700	5700
20	5300	3700	6600	5700	8400	29000	5800	33000	17000	15000	6900	5800
21	5000	3700	6500	5400	10000	25000	6100	30000	20000	15000	5900	5900
22	4400	3600	6000	5100	13000	21000	6900	27000	25000	16000	5500	6400
23	4600	3600	6000	4800	11000	19000	18000	25000	28000	18000	5200	7400
24	5200	3700	6200	4800	8700	18000	40000	22000	29000	19000	4900	7600
25	5600	3700	6500	6300	8300	17000	52000	19000	29000	18000	4600	7800
26	5900	3700	7200	8300	9200	16000	57000	17000	25000	16000	4500	7600
27	5300	4400	7000	9100	10000	15000	55000	16000	23000	15000	4400	7200
28	4800	5300	6700	8600	10000	14000	51000	17000	22000	14000	4400	6400
29	5300	6400	6600	8200	9500	13000	49000	19000	22000	13000	4400	5600
30	6500	7900	6800	8400	---	14000	45000	25000	23000	12000	4200	5300
31	7000	---	6900	8400	---	14000	---	30000	---	12000	4000	---
TOTAL	170100	155300	194900	260400	226000	764200	569000	821000	631000	552000	238600	174000
MEAN	5487	5177	6287	8400	7793	24650	18970	26480	21030	17810	7697	5800
MAX	7000	7900	7800	11000	13000	51000	57000	42000	29000	26000	12000	7800
MIN	4400	3600	4900	4800	5500	8000	5800	14000	14000	12000	4000	3800
AC-FT	337400	308000	386600	516500	448300	1516000	1129000	1628000	1252000	1095000	473300	345100
CAL YR 1975	TOTAL	11202900	MEAN	30690	MAX	115000	MIN	3600	AC-FT	22220000		
WTR YR 1976	TOTAL	4756500	MEAN	13000	MAX	57000	MIN	3600	AC-FT	9435000		

07348500 RED RIVER AT SHREVEPORT, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.30	5.40	5.80	5.50	5.90	6.20	7.80	15.50	12.80	11.10	7.50	3.40
2	5.20	5.40	5.20	6.20	5.80	5.90	7.90	14.80	11.70	11.70	7.40	3.40
3	5.10	5.20	4.90	6.50	5.40	6.00	7.90	13.40	11.20	11.60	7.10	3.90
4	5.00	5.60	4.70	7.00	5.30	6.10	7.70	12.90	11.30	11.70	6.80	4.60
5	4.70	5.60	4.50	7.20	5.60	6.20	7.70	11.00	11.20	12.00	6.90	4.90
6	4.10	5.50	4.20	7.20	5.70	6.90	7.60	10.00	10.90	11.20	7.00	5.00
7	4.00	5.40	4.10	7.30	5.50	7.40	7.70	9.00	10.70	10.40	7.00	4.80
8	4.10	4.90	4.20	7.40	5.30	7.30	7.70	8.50	10.90	10.40	6.70	4.50
9	4.40	4.40	4.80	6.90	5.10	10.10	7.40	9.50	10.40	11.00	6.50	4.30
10	4.70	4.40	5.30	6.80	4.80	13.10	6.70	11.60	10.00	10.90	6.40	4.10
11	4.90	4.10	5.40	6.70	4.70	15.20	5.70	13.30	9.80	9.70	6.20	3.90
12	5.00	3.80	5.00	6.40	4.70	15.80	5.50	13.80	9.50	8.80	5.90	3.90
13	4.70	3.50	4.70	6.00	4.60	15.40	5.40	13.10	9.20	8.30	5.70	3.90
14	4.60	3.40	4.50	6.00	4.40	15.70	5.30	12.40	8.60	8.00	5.80	3.90
15	4.50	3.40	4.00	6.20	4.40	16.50	5.50	12.30	8.30	8.00	5.90	4.30
16	4.60	3.50	3.90	6.30	4.50	16.10	5.80	12.60	8.30	8.10	5.90	4.30
17	4.50	3.60	3.90	6.30	4.30	15.60	5.60	12.40	8.60	8.30	6.00	4.30
18	4.50	3.40	4.10	5.80	4.40	14.60	5.40	12.20	8.60	8.30	5.80	4.30
19	4.60	3.20	4.40	4.80	5.30	14.10	5.20	13.90	8.60	8.40	5.80	4.30
20	4.60	3.20	4.60	4.40	5.80	12.90	4.70	13.40	9.30	8.70	5.40	4.30
21	4.30	3.40	4.70	4.40	7.00	12.40	4.80	12.70	10.20	8.80	4.80	4.20
22	3.90	3.10	4.50	4.40	8.40	11.10	4.80	12.10	11.50	8.80	4.60	4.20
23	3.90	3.10	4.20	4.20	8.00	10.40	8.20	11.50	12.10	9.60	4.50	5.00
24	4.20	3.40	4.20	4.00	6.80	9.80	14.00	11.10	12.30	9.60	4.40	5.00
25	4.90	3.50	4.60	4.20	6.00	9.70	15.80	10.20	12.40	9.90	4.10	5.50
26	5.00	3.40	5.20	5.90	6.50	9.10	16.70	9.60	11.80	9.00	4.10	5.50
27	4.70	3.60	5.20	6.50	7.20	8.80	16.70	9.00	10.80	8.50	4.00	5.50
28	4.10	4.20	5.10	6.20	7.30	8.40	16.10	9.00	10.50	8.20	4.00	5.20
29	4.10	5.10	5.00	5.80	7.00	8.00	15.80	9.70	10.70	7.90	4.00	4.60
30	4.80	5.70	5.30	6.00	---	8.20	15.50	11.10	10.90	7.60	3.90	4.40
31	5.40	---	5.30	6.00	---	8.30	---	12.60	---	7.50	3.50	---
MEAN	4.59	4.18	4.69	5.95	5.71	10.69	8.62	11.75	10.44	9.42	5.60	4.45
MAX	5.40	5.70	5.80	7.40	8.40	16.50	16.70	15.50	12.80	12.00	7.50	5.50
MIN	3.90	3.10	3.90	4.00	4.30	5.90	4.70	8.50	8.30	7.50	3.50	3.40

RED RIVER BASIN

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA

LOCATION.--Lat 32°59'40", long 93°23'47", in NE¼NE¼ 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 (0.6 km) downstream from Crooked Creek, 1.7 mi (2.7 km) downstream from Arkansas-Louisiana State line, and 4.2 mi (6.8 km) southeast of intersection of State Highways 7 and 157 at Springhill.

DRAINAGE AREA.--605 mi² (157 km²).

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

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

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft (53.008 m) above mean sea level.

REMARKS.--Records fair above 200 ft³/s (5.66 m³/s) and poor below. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--20 years, 563 ft³/s (15.94 m³/s), 12.64 in/yr (321 mm/yr), 407,900 acre-ft/yr (503 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,400 ft³/s (1,030 m³/s) Apr. 28, 1958, gage height, 22.79 ft (6.946 m); no flow Oct. 10-14, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft³/s (85 m³/s) and maximum: Apr. 1 (1000), 3,450 ft³/s (97.7 m³/s), gage height, 13.54 ft (4.127 m); minimum daily discharge, 1.1 ft³/s (0.031 m³/s) July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	25	41	55	251	560	3410	126	8.3	4.9	24	21
2	15	20	38	48	217	515	3200	110	7.6	4.3	22	18
3	18	15	34	46	256	546	2580	100	7.0	3.6	60	18
4	17	14	30	40	393	908	2070	122	6.8	3.1	68	18
5	15	12	26	35	495	1040	1770	182	6.9	3.2	47	17
6	14	10	37	36	618	1230	1630	207	8.6	3.3	38	17
7	13	9.0	54	44	732	1510	1650	203	8.9	2.8	29	16
8	12	8.0	57	50	833	1930	1880	195	7.8	2.3	28	15
9	10	7.0	75	103	878	2160	2070	211	7.8	2.0	38	15
10	11	6.0	106	159	855	2110	1930	261	8.0	1.9	41	15
11	9.0	6.0	148	186	809	1880	1620	473	7.8	1.1	34	14
12	8.0	6.0	189	216	903	1620	1330	683	10	5.6	27	13
13	7.0	6.5	191	231	872	1370	1040	761	19	3.6	23	13
14	6.0	7.0	207	399	905	1170	727	608	11	2.6	20	13
15	5.0	8.0	231	445	1010	1030	454	345	12	1.8	18	13
16	5.0	8.6	255	503	1140	995	291	183	16	1.4	17	12
17	6.0	13	271	546	1230	995	217	111	12	1.2	17	11
18	10	15	268	588	1250	971	255	70	10	1.1	17	10
19	9.0	15	233	621	1230	891	294	46	13	1.2	20	11
20	9.0	17	175	627	1150	756	328	30	24	1.3	25	10
21	10	19	116	601	988	570	453	24	37	1.8	23	9.0
22	9.0	17	82	541	764	398	620	21	40	2.1	20	8.2
23	8.0	16	63	449	542	298	740	19	30	2.0	19	7.8
24	7.0	17	52	356	404	248	781	19	21	2.3	18	7.5
25	15	17	46	294	371	221	767	19	15	4.5	17	7.0
26	20	22	44	279	415	206	730	17	20	4.3	17	6.6
27	17	24	39	291	489	393	624	15	13	4.7	17	8.2
28	16	22	37	313	548	788	442	13	8.5	13	20	8.0
29	15	25	40	319	---	1300	268	14	6.7	13	20	4.3
30	25	35	48	309	---	1880	174	13	5.7	17	23	4.6
31	30	---	57	288	---	2870	---	9.5	---	25	23	---
TOTAL	387.0	442.1	3290	9018	20548	33359	34345	5210.5	409.4	169.0	830	361.2
MEAN	12.5	14.7	106	291	734	1076	1145	168	13.6	5.45	26.8	12.0
MAX	30	35	271	627	1250	2870	3410	761	40	25	68	21
MIN	5.0	6.0	26	35	217	206	174	9.5	5.7	1.1	17	4.3
CFSM	.02	.02	.18	.48	1.21	1.78	1.89	.28	.02	.009	.04	.02
IN.	.02	.03	.20	.55	1.26	2.05	2.11	.32	.03	.01	.05	.02
AC-FT	768	877	6530	17890	40760	66170	68120	10340	812	335	1650	716

CAL YR 1976 TOTAL 112062.2 MEAN 306 MAX 8500 MIN 5.0 CFSM .51 IN 6.89 AC-FT 222300
WTR YR 1977 TOTAL 108369.2 MEAN 297 MAX 3410 MIN 1.1 CFSM .49 IN 6.66 AC-FT 215000

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.52	---	5.58	5.78	7.79	9.66	13.52	6.48	4.18	4.14	4.56	4.70
2	4.51	---	5.54	5.69	7.50	9.44	13.41	6.27	4.14	4.10	4.48	4.64
3	4.62	---	5.47	5.65	7.80	9.56	13.06	6.12	4.12	4.06	5.32	4.63
4	4.58	---	5.37	5.56	8.78	11.02	12.71	6.42	4.11	4.03	5.50	4.66
5	4.52	---	5.28	5.49	9.34	11.34	12.48	7.14	4.12	4.03	5.11	4.66
6	4.50	---	5.48	5.50	9.91	11.75	12.35	7.40	4.20	4.04	4.91	4.70
7	4.45	---	5.76	5.62	10.39	12.21	12.37	7.35	4.22	4.00	4.65	4.67
8	4.42	---	5.81	5.70	10.77	12.61	12.57	7.27	4.18	3.95	4.60	4.66
9	4.37	---	6.03	6.33	10.93	12.78	12.71	7.44	4.19	3.92	4.86	4.68
10	4.39	---	6.38	6.94	10.85	12.74	12.61	7.86	4.20	4.67	4.94	4.70
11	4.33	---	6.82	7.18	10.69	12.56	12.34	9.21	4.20	4.41	4.75	4.70
12	---	---	7.21	7.48	11.01	12.34	11.94	10.19	4.28	4.16	4.55	4.70
13	---	---	7.23	7.62	10.91	12.01	11.33	10.50	4.62	4.03	4.40	4.70
14	---	---	7.39	8.81	11.02	11.62	10.36	9.86	4.34	3.93	4.28	4.75
15	---	---	7.62	9.08	11.27	11.32	9.11	8.45	4.37	3.86	4.19	4.74
16	---	4.70	7.82	9.38	11.56	11.24	8.10	7.14	4.55	3.80	4.17	4.74
17	---	4.90	7.96	9.59	11.75	11.24	7.50	6.27	4.41	3.76	4.17	4.74
18	---	4.99	7.93	9.78	11.78	11.19	7.82	5.69	4.34	3.74	4.19	4.73
19	---	5.00	7.64	9.93	11.74	10.97	8.13	5.28	4.44	3.74	4.34	4.81
20	---	5.04	7.08	9.95	11.59	10.48	8.37	4.90	4.82	3.78	4.55	4.81
21	---	5.09	6.49	9.84	11.22	9.69	9.11	4.75	5.16	3.84	4.51	4.75
22	---	5.04	6.12	9.56	10.51	8.81	9.92	4.63	5.22	3.86	4.45	4.73
23	---	5.01	5.89	9.10	9.56	8.16	10.42	4.58	4.99	3.87	4.41	4.74
24	---	5.04	5.74	8.55	8.85	7.77	10.58	4.59	4.74	3.88	4.39	4.75
25	---	5.06	5.66	8.13	8.65	7.53	10.53	4.57	4.56	4.00	4.38	4.76
26	---	5.18	5.62	8.02	8.91	7.39	10.38	4.52	4.71	3.98	4.43	4.76
27	---	5.23	5.54	8.11	9.31	8.74	9.94	4.44	4.47	4.00	4.45	4.89
28	---	5.19	5.52	8.26	9.60	10.55	9.05	4.38	4.33	4.24	4.60	4.91
29	---	5.25	5.56	8.31	---	11.87	7.92	4.40	4.25	4.21	4.61	4.62
30	---	5.47	5.68	8.24	---	12.56	7.05	4.35	4.19	4.32	4.75	4.67
31	---	---	5.81	8.08	---	13.23	---	4.23	---	4.61	4.79	---
MEAN	---	---	6.29	7.78	10.14	10.79	10.59	6.34	4.42	4.03	4.59	4.72
MAX	---	5.47	7.96	9.95	11.78	13.23	13.52	10.50	5.22	4.67	5.50	4.91
MIN	---	---	5.28	5.49	7.50	7.39	7.05	4.23	4.11	3.74	4.17	4.62

RED RIVER BASIN

07348800 FLAT LICK BAYOU NEAR LETON, LA

LOCATION.--Lat 32°46'11", long 93°15'58", in NW¼ sec.35, T.21 N., R.9 W., Webster Parish, Hydrologic Unit 11140203, near left bank on downstream side of bridge on State Highway 159, 0.5 mi (0.8 km) downstream from Cypress Creek, 6.0 mi (9.7 km) upstream from mouth, and 6.5 mi (10.5 km) south of Leton.

DRAINAGE AREA.--66.9 mi² (173 km²).

PERIOD OF RECORD.--Annual maximums, water years 1954-56 and occasional low-flow measurements, water years 1955-56. October 1956 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 182.79 ft (55.714 m) above mean sea level. Nov. 9, 1953, to Sept. 13, 1956, crest-stage gage at datum 35.21 ft (10.732 m) lower.

REMARKS.--Records fair. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--21 years, 59.9 ft³/s (1.696 m³/s), 12.16 in/yr (309 mm/yr), 43,400 acre-ft/yr (53.5 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s (289 m³/s) Apr. 26, 1958, gage height, 12.95 ft (3.947 m) from rating curve extended above 4,200 ft³/s (119 m³/s) by velocity-area study; no flow at times in 1957-58, 1960, 1963-72, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s): No peak above the base. Maximum discharge, 358 ft³/s (10.1 m³/s) Feb. 12, gage height, 7.37 ft (2.246 m); no flow June 29 to July 9, July 16-29, Aug. 12, 13, 19-21, Sept. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.47	.67	.65	7.8	9.8	40	1.7	.32	0	.70	.08
2	.25	.54	.63	.74	7.9	9.8	36	4.5	.28	0	.60	.04
3	.25	.60	.60	1.1	13	35	49	4.7	.28	0	.32	.02
4	.23	.80	.59	1.3	21	164	108	3.7	.30	0	.19	.01
5	.24	1.2	.60	1.3	19	165	129	1.6	.30	0	.08	0
6	.29	.99	2.0	1.7	16	87	81	1.2	.32	0	.04	0
7	.30	.80	3.0	2.7	12	47	50	1.0	.24	0	.02	0
8	.28	.60	1.0	2.3	11	34	35	3.1	.20	0	.04	.20
9	.28	.50	.69	10	10	28	27	5.1	.12	0	.06	.12
10	.31	.45	.54	15	9.2	25	22	2.0	.16	.01	.32	.10
11	.27	.40	1.1	14	42	24	19	1.3	.16	.13	.05	.08
12	.25	.35	2.7	10	304	28	16	1.3	.20	.05	0	.09
13	.23	.35	1.4	11	221	34	14	1.1	.37	.11	0	.13
14	.22	.30	1.2	30	120	25	12	.96	.47	.04	.02	.73
15	.22	.35	1.3	30	63	21	9.8	.85	.52	.01	.77	.31
16	.22	.40	1.2	21	39	17	7.5	.79	.65	0	.28	.14
17	.37	.46	1.1	15	32	14	6.8	.70	.52	0	.06	.09
18	.39	.44	.99	12	27	14	10	.65	.40	0	.01	.08
19	.28	.47	.94	9.7	24	13	14	.60	.28	0	0	.15
20	.32	.79	1.5	9.1	20	12	20	.60	.24	0	0	.29
21	.37	1.5	1.3	8.5	18	11	21	.55	.24	0	0	.21
22	.29	.59	.84	7.7	17	9.8	14	.55	.22	0	.79	.11
23	.38	.42	.85	8.7	18	9.4	11	.50	.16	0	.40	.06
24	.57	.41	.77	9.9	17	8.7	8.5	.47	.12	0	.20	.04
25	.34	.42	1.6	10	16	8.9	6.8	.52	.08	0	.24	.04
26	1.5	1.1	1.3	9.8	14	9.2	4.1	.60	.05	0	.35	.03
27	1.0	2.0	.98	9.3	12	24	2.9	.57	.03	0	.14	.10
28	.47	1.1	1.0	8.9	11	174	2.6	.45	.01	0	1.8	.48
29	.36	.85	.88	7.8	---	162	1.9	.42	0	0	1.1	.23
30	.39	.90	.82	7.2	---	103	1.6	.40	0	.42	.43	.12
31	.42	---	.77	8.0	---	57	---	.35	---	.78	.16	---
TOTAL	11.56	20.55	34.86	294.39	1141.9	1383.6	780.5	42.83	7.24	1.55	9.17	4.08
MEAN	.37	.69	1.12	9.50	40.8	44.6	26.0	1.38	.24	.050	.30	.14
MAX	1.5	2.0	3.0	30	304	174	129	5.1	.65	.78	1.8	.73
MIN	.22	.30	.54	.65	7.8	8.7	1.6	.35	0	0	0	0
CFSM	.005	.01	.02	.14	.61	.67	.39	.02	.003	0	.004	.002
IN.	.006	.01	.02	.16	.63	.77	.43	.02	.004	.0009	.005	.002
AC-FT	23	41	69	584	2260	2740	1550	85	14	3.1	18	8.1

CAL YR 1976 TOTAL 11171.31 MEAN 30.5 MAX 1040 MIN .22 CFSM .46 IN 6.21 AC-FT 22160
WTR YR 1977 TOTAL 3732.23 MEAN 10.2 MAX 304 MIN 0 CFSM .15 IN 2.08 AC-FT 7400

07348800 FLAT LICK BAYOU NEAR LETON, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.65	1.81	1.90	1.90	2.28	2.38	3.18	1.89	1.55	1.36	1.69	1.45
2	1.64	1.82	1.90	1.91	2.29	2.38	3.09	2.05	1.53	1.32	1.66	1.42
3	1.63	1.83	1.89	1.95	2.49	3.00	3.37	2.06	1.53	1.31	1.55	1.40
4	1.63	1.87	1.89	1.97	2.76	5.24	4.44	2.01	1.54	1.30	1.49	---
5	1.63	1.91	1.89	1.97	2.72	5.25	4.75	1.88	1.54	1.30	1.43	---
6	1.66	1.90	2.02	2.01	2.60	4.10	3.99	1.83	1.55	1.30	1.40	---
7	1.67	1.88	2.10	2.08	2.49	3.37	3.41	1.80	1.51	1.29	1.38	---
8	1.66	---	1.94	2.05	2.43	3.11	3.07	1.95	1.49	1.33	1.40	---
9	1.65	---	1.90	2.44	2.40	2.96	2.85	2.08	1.45	1.36	1.42	---
10	1.67	---	1.88	2.65	2.36	2.87	2.70	1.91	1.47	1.37	1.55	---
11	1.66	---	1.95	2.60	3.10	2.83	2.60	1.85	1.47	1.45	1.41	---
12	1.65	---	2.08	2.47	6.87	2.94	2.49	1.84	1.49	1.41	1.35	---
13	1.64	---	1.98	2.49	5.99	3.10	2.45	1.81	1.56	1.44	1.33	1.47
14	1.64	---	1.96	3.03	---	2.86	2.34	1.78	1.61	1.40	1.38	1.72
15	1.63	---	1.98	3.02	3.70	2.72	2.27	1.75	1.62	1.37	1.71	1.57
16	1.65	---	1.97	2.79	3.24	2.61	2.18	1.73	1.68	1.34	1.52	1.49
17	1.71	1.85	1.95	2.58	3.07	2.50	2.15	1.70	1.62	1.33	1.42	1.46
18	1.73	1.87	1.94	2.47	2.95	2.50	2.29	1.68	1.58	1.32	1.37	1.45
19	1.70	1.87	1.93	2.38	2.86	2.47	2.44	1.66	1.53	1.31	1.34	1.50
20	1.72	1.92	1.99	2.35	2.74	2.42	2.62	1.66	1.51	1.30	1.33	1.56
21	1.74	1.98	1.97	2.32	2.67	2.40	2.65	1.64	1.51	1.30	1.33	1.53
22	1.71	1.89	1.92	2.28	2.63	2.34	2.44	1.64	1.50	1.29	1.73	1.48
23	1.74	1.86	1.92	2.33	2.66	2.32	2.32	1.62	1.47	1.29	1.58	1.44
24	1.80	1.86	1.91	2.39	2.65	2.29	2.22	1.61	1.45	1.29	1.49	1.42
25	1.74	1.86	1.99	2.39	2.61	2.30	2.15	1.63	---	1.29	1.51	1.42
26	1.89	1.95	1.97	2.38	2.54	2.31	2.02	1.66	---	1.29	1.55	1.40
27	1.86	2.03	1.94	2.36	2.47	2.80	1.97	1.65	---	1.28	1.46	1.47
28	1.79	1.96	1.94	2.34	2.42	5.37	1.95	1.60	---	1.28	1.84	1.63
29	1.77	1.92	1.93	2.28	---	5.22	1.90	1.59	---	1.28	1.77	1.54
30	1.78	1.93	1.92	2.25	---	4.37	1.88	1.58	---	1.59	1.61	1.48
31	1.79	---	1.91	2.30	---	3.55	---	1.56	---	1.72	1.50	---
MEAN	1.70	---	1.95	2.35	---	3.13	2.67	1.76	---	1.35	1.50	---
MAX	1.89	2.03	2.10	3.03	6.87	5.37	4.75	2.08	1.68	1.72	1.84	1.72
MIN	1.63	---	1.88	1.90	2.28	2.29	1.88	1.56	---	1.28	1.33	---

07349000 BAYOU DORCHEAT NEAR MINDEN, LA

LOCATION.--Lat 32°35'55", long 93°19'59", in NW¼ sec.31, T.19 N., R.9 W., Webster Parish, Hydrologic Unit 11140203, on left bank 500 ft (152 m) upstream from bridge on U.S. Highway 80, 0.7 mi (1.1 km) upstream from Louisiana and Arkansas Railway Co. bridge, 3.0 mi (4.8 km) west of Minden, and 28 mi (45 km) upstream from Bistineau Dam.

DRAINAGE AREA.--1,097 mi² (2,841 km²).

PERIOD OF RECORD.--July 1928 to September 1931, October 1936 to current year. 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 (40.767 m) above mean sea level (levels by Corps of Engineers). Prior to Mar. 1, 1940, nonrecording gage at same site and datum. Since July 29, 1953, supplementary water-stage recorder 4.6 mi (7.4 km) upstream from base gage at different datum used for low stages.

REMARKS.--Records good above 700 ft³/s (20 m³/s) and poor below. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report. Gage heights affected by Lake Bistineau.

AVERAGE DISCHARGE.--44 years (water years 1929-31, 1936-77), 1,117 ft³/s (31.63 m³/s), 13.83 in/yr (351 mm/yr), 809,300 acre-ft/yr (998 hm³/s yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,800 ft³/s (1,270 m³/s) May 1, 1958, gage height, 24.90 ft (7.590 m); no flow at times in 1954, 1956, 1964, 1969, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,340 ft³/s (94.6 m³/s) Apr. 7, gage height, 12.52 ft (3.816 m); minimum daily discharge, 0.36 ft³/s (0.010 m³/s) June 26; minimum gage height, 6.33 ft (1.929 m) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	13	24	9.3	382	550	1610	544	12	7.3	19	2.8
2	21	13	28	10	365	600	1820	412	13	9.3	18	2.6
3	18	13	31	14	354	770	2130	266	12	6.1	17	2.4
4	14	14	32	15	397	1030	2510	184	9.6	1.7	23	2.1
5	18	15	31	15	416	1210	2840	141	12	.52	31	1.7
6	16	17	38	16	548	1410	3150	100	8.1	.40	29	1.4
7	14	17	46	18	649	1610	3320	113	5.1	.48	26	1.3
8	13	17	37	17	699	1720	3250	171	3.7	.52	23	1.8
9	12	16	32	35	742	1780	3010	213	3.2	.60	22	2.8
10	11	16	32	50	779	1840	2690	221	3.7	1.3	25	2.4
11	9.6	15	42	80	930	1900	2370	225	2.8	3.0	21	2.0
12	10	15	58	100	1560	2030	2180	250	2.1	4.6	18	1.8
13	9.0	14	70	200	1690	2130	2080	361	2.1	4.6	17	1.7
14	8.1	14	80	300	1690	2160	2010	535	1.6	4.7	18	1.6
15	7.0	13	90	400	1660	2140	1880	607	1.6	4.9	20	1.2
16	6.1	12	98	600	1630	2080	1650	658	1.8	5.0	23	.96
17	5.1	13	98	700	1560	1930	1330	626	2.4	4.5	19	.60
18	5.1	12	126	750	1470	1740	1070	412	2.4	4.0	14	.48
19	8.0	15	150	750	1390	1500	800	214	1.6	3.5	10	.60
20	6.1	18	174	720	1350	1320	600	131	1.2	3.5	6.8	.84
21	7.5	19	166	714	1320	1200	500	86	.96	3.0	7.8	.72
22	7.5	20	130	706	1310	1110	450	62	.84	2.5	12	.60
23	7.8	22	88	725	1290	1010	500	49	.60	2.2	9.6	.60
24	9.0	24	52	732	1240	869	650	40	.48	1.9	9.3	.60
25	9.6	26	36	718	1130	735	690	34	.40	1.8	7.8	.56
26	10	26	26	644	950	648	738	28	.36	1.7	7.3	.52
27	9.9	26	20	558	740	686	775	22	.52	1.6	9.3	.52
28	9.0	26	15	454	600	903	793	17	5.3	3.5	9.0	.52
29	9.0	24	13	401	---	1050	776	14	5.6	10	5.6	.52
30	14	24	11	371	---	1230	725	12	5.3	10	3.8	.52
31	13	---	9.9	380	---	1410	---	12	---	13	3.3	---
TOTAL	342.4	529	1883.9	11202.3	28841	42301	48897	6760	122.36	121.72	484.6	38.76
MEAN	11.0	17.6	60.8	361	1030	1365	1630	218	4.08	3.93	15.6	1.29
MAX	25	26	174	750	1690	2160	3320	658	13	13	31	2.8
MIN	5.1	12	9.9	9.3	354	550	450	12	.36	.40	3.3	.48
CFSM	.01	.02	.06	.33	.94	1.24	1.49	.20	.003	.003	.01	.001
IN.	.01	.02	.06	.38	.98	1.43	1.66	.23	.004	.004	.02	.001
AC-FT	679	1050	3740	22220	57210	83900	96990	13410	243	241	961	77
CAL YR 1976 TOTAL	204156.64			MEAN 558	MAX 9390	MIN .20	CFSM .51	IN 6.92	AC-FT 404900			
WTR YR 1977 TOTAL	141524.04			MEAN 388	MAX 3320	MIN .36	CFSM .35	IN 4.80	AC-FT 280700			

07349000 BAYOU DORCHEAT NEAR MINDEN, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.89	6.52		---	7.71	---	9.85	7.92	7.14	6.84	6.68	6.55
2	6.81	6.52		---	7.69	---	10.22	7.81	7.13	6.90	6.69	6.53
3	6.74	6.51		---	7.72	---	10.75	7.67	7.12	6.88	6.66	6.51
4	6.66	6.51		---	7.78	---	11.37	7.60	7.11	6.85	6.65	6.49
5	6.59	6.50		---	7.76	---	11.85	7.54	7.13	6.85	6.65	6.47
6	6.53	6.52		---	7.82	---	12.29	7.49	7.11	6.82	6.64	6.44
7	6.51	6.49		---	7.92	---	12.50	7.44	7.04	6.81	6.63	6.46
8	6.52	6.50		---	8.04	---	12.42	7.44	7.05	6.79	6.62	6.48
9	6.53	6.52		---	8.14	---	12.09	7.45	7.03	6.77	6.61	6.55
10	6.51	6.51		---	8.22	---	11.63	7.42	7.01	6.79	6.47	6.53
11	6.50	6.47		---	8.54	---	11.15	7.41	6.99	6.83	6.57	6.52
12	6.49	6.44		---	9.75	---	10.83	7.42	7.00	6.80	6.56	6.52
13	6.49	6.46		---	10.00	---	10.67	7.49	7.02	6.77	6.59	6.53
14	6.48	6.49		---	9.99	---	10.55	7.64	7.10	6.75	6.62	6.40
15	6.48	6.50		---	9.94	10.77	10.32	7.82	7.15	6.73	6.63	6.47
16	6.44	6.50		---	9.88	10.66	9.91	7.94	7.18	6.74	6.63	6.46
17	6.43	---		---	9.75	10.41	9.33	7.89	7.19	6.72	6.61	6.45
18	6.44	---		---	9.60	10.08	8.83	7.68	7.17	6.71	6.59	6.45
19	6.44	---		---	9.45	9.64	8.33	7.53	7.16	6.68	6.60	6.46
20	6.43	---		---	9.37	9.31	8.05	7.45	7.14	6.67	6.59	6.46
21	6.44	---		8.08	9.32	9.10	7.96	7.42	7.13	6.66	6.62	6.45
22	6.44	---		8.06	9.30	8.90	7.91	7.37	7.11	6.64	6.64	6.44
23	6.47	---		8.10	---	8.70	7.90	7.32	7.08	6.64	6.64	6.44
24	6.45	---		8.12	---	8.42	7.93	7.29	7.06	6.64	6.63	6.44
25	6.46	---		8.08	---	8.12	8.02	7.27	7.06	6.63	6.62	6.43
26	6.44	---		8.02	---	7.92	8.13	7.24	7.04	6.59	6.62	6.41
27	6.41	---		7.89	---	8.01	8.21	7.23	7.02	6.60	6.61	6.40
28	6.40	---		7.77	---	8.49	8.25	7.22	6.99	6.66	6.59	6.36
29	6.44	---		7.71	---	8.79	8.21	7.21	6.96	6.66	6.58	6.37
30	6.53	---		7.70	---	9.15	8.10	7.19	6.96	6.68	6.57	6.37
31	6.51	---		7.71	---	9.48	---	7.17	---	6.69	6.57	---
MEAN	6.51	---		---	---	---	9.79	7.48	7.08	6.74	6.61	6.46
MAX	6.89	---		---	10.00	---	12.50	7.94	7.19	6.90	6.69	6.55
MIN	6.40	---		---	---	---	7.90	7.17	6.96	6.59	6.47	6.36

RED RIVER BASIN

07349250 LAKE BISTINEAU NEAR RINGGOLD, LA

LOCATION.--Lat 32°19'46", long 93°26'10", in sec.31, T.16 N., R.10 W., Bossier Parish, Hydrologic Unit 11140203, 40 ft (12 m) upstream from spillway near right bank on upstream side of bridge on State Highway 154, 8.5 mi (13.7 km) west of Ringgold city limits, and 17.0 mi (27.4 km) upstream from mouth.

DRAINAGE AREA.--1,443 mi² (3,737 km²).

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

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

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 130.00 ft (39.624 m) above mean sea level (levels by Louisiana Department of Transportation and Development, Office of Public Works).

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft (370-m) concrete spillway equipped with twelve gates that are 6.0 ft (1.83 m) long and 5.0 ft (1.52 m) high. The flat-crested spillway is 1.75 ft (0.533 m) thick. Built onto the spillway is a fish ladder that is 4 ft (1.2 m) wide and begins flowing at 4.1 ft (1.25 m) gage height. Dam completed in 1935 and enlarged in 1951. Capacity, 120,000 acre-ft (148 hm³) at 11 ft (3.35 m) gage height. Reservoir is used for flood control and conservation. Two gates were partially open all year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.56 ft (4.438 m) Feb. 8, 1975; minimum, 3.72 ft (1.134 m) Nov. 29, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.90 ft (3.627 m) Apr. 9; minimum, 10.03 ft (3.057 m) Sept. 29.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.65	10.32	10.53	11.12	11.28	11.38	11.60	11.32	10.92	10.70	10.57	10.36
2	10.58	10.32	10.55	11.12	11.27	11.34	11.58	11.32	10.91	10.68	10.50	10.35
3	10.50	10.32	10.54	11.11	11.39	11.34	11.68	11.29	10.89	10.65	10.49	10.34
4	10.42	10.30	10.55	11.09	11.34	11.59	11.83	11.23	10.88	10.64	10.46	10.32
5	10.33	10.31	10.57	11.11	11.35	11.63	11.85	11.19	10.92	10.62	10.42	10.30
6	10.36	10.27	10.61	11.12	11.33	11.61	11.85	11.17	10.90	10.62	10.42	10.29
7	10.35	10.29	10.74	11.12	11.33	11.58	11.87	11.17	10.95	10.59	10.41	10.26
8	10.30	10.29	10.74	11.12	11.32	11.57	11.89	11.14	10.85	10.57	10.40	10.26
9	10.28	10.26	10.75	11.22	11.33	11.59	11.90	11.15	10.81	10.55	10.38	10.34
10	10.27	10.27	10.77	11.19	11.35	11.61	11.88	11.14	10.80	10.52	10.37	10.32
11	10.27	10.28	10.85	11.21	11.40	11.62	11.85	11.12	10.79	10.58	10.36	10.31
12	10.26	10.36	10.91	11.20	11.70	11.65	11.81	11.10	10.77	10.56	10.34	10.29
13	10.26	10.29	10.97	11.19	11.81	11.68	11.76	11.10	10.79	10.55	10.34	10.25
14	10.26	10.32	10.98	11.34	11.82	11.69	11.73	11.12	10.84	10.55	10.40	10.24
15	10.26	10.30	11.01	11.36	11.78	11.69	11.71	11.14	10.94	10.52	10.40	10.25
16	10.28	10.31	11.03	11.40	11.70	11.74	11.68	11.15	10.95	10.55	10.38	10.22
17	10.29	10.31	11.05	11.34	11.67	11.68	11.66	11.18	10.96	10.52	10.36	10.20
18	10.25	10.30	11.07	11.43	11.63	11.67	11.70	11.20	10.95	10.50	10.40	10.20
19	10.21	10.30	11.08	11.34	11.62	11.65	11.61	11.18	10.92	10.48	10.39	10.27
20	10.25	10.36	11.24	11.33	11.57	11.60	11.53	11.16	10.91	10.45	10.38	10.25
21	10.22	10.38	11.24	11.35	11.56	11.55	11.48	11.10	10.90	10.45	10.36	10.23
22	10.21	10.36	11.20	11.35	11.52	11.53	11.42	11.08	10.88	10.42	10.42	10.23
23	10.19	10.36	11.20	11.35	11.51	11.47	11.36	11.07	10.87	10.44	10.40	10.20
24	10.21	10.36	11.19	11.38	11.57	11.43	11.35	11.05	10.85	10.42	10.40	10.17
25	10.26	10.36	11.20	11.37	11.55	11.41	11.34	11.03	10.82	10.40	10.40	10.18
26	10.27	10.40	11.17	11.35	11.48	11.37	11.30	11.01	10.79	10.38	10.38	10.17
27	10.27	10.45	11.15	11.36	11.49	11.36	11.30	10.99	10.77	10.39	10.36	10.15
28	10.26	10.56	11.15	11.35	11.43	11.50	11.30	10.97	10.74	10.47	10.39	10.15
29	10.25	10.53	11.14	11.34	---	11.60	11.31	10.94	10.74	10.45	10.39	10.13
30	10.31	10.52	11.10	11.29	---	11.61	11.31	10.93	10.70	10.45	10.38	10.11
31	10.32	---	11.18	11.31	---	11.60	---	10.93	---	10.44	10.38	---
MEAN	10.30	10.35	10.95	11.27	11.50	11.56	11.61	11.12	10.86	10.52	10.40	10.24
MAX	10.65	10.56	11.24	11.43	11.82	11.74	11.90	11.32	10.96	10.70	10.57	10.36
MIN	10.19	10.26	10.53	11.09	11.27	11.34	11.30	10.93	10.70	10.38	10.34	10.11

07349500 BODCAU BAYOU NEAR SAREPTA, LA

LOCATION.--Lat 32°54'18", long 93°28'58", in NE¼ 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 (3.4 km) northwest of Sarepta, and 9.5 mi (15.3 km) upstream from Caney Creek.

DRAINAGE AREA.--546 mi² (1,410 km²).

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

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft (53.008 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair. Water used by paper mill at Springhill is pumped from wells and discharged later as waste into bayou approximately 8 mi (13 km) above station. This discharge is not continuous but is stored in a reservoir and is released whenever the flow of bayou is sufficient to dilute effluent from mill. Some diversion and regulated by Lake Erling (usable capacity, 79,000 acre-ft or 97.4 hm³) 15 mi (24 km) upstream. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--39 years, 580 ft³/s (16.43 m³/s), 420,200 acre-ft/yr (518 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s (527 m³/s) May 2, 1958, gage height, 25.14 ft (8.230 m); minimum, 0.1 ft³/s (0.003 m³/s) at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft (0.436 m) Aug. 14-19, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 23, 1930, exceeded 25 ft (7.6 m) and flood in 1905 may have reached a stage of 27 ft (8.2 m) from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft³/s (85 m³/s): No peak above the base. Maximum discharge, 2,120 ft³/s (60.0 m³/s) Apr. 7, gage height, 15.02 ft (4.578 m); minimum, 4.6 ft³/s (0.13 m³/s) Sept. 22; minimum gage height, 1.90 ft (0.579 m) Aug. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	517	376	39	368	735	1770	821	20	15	98	8.7
2	13	516	373	41	390	716	1720	762	18	13	148	8.5
3	12	512	369	44	442	786	1640	686	13	13	86	9.5
4	11	508	365	53	492	965	1680	617	13	15	30	12
5	12	497	365	153	543	1100	1870	544	16	43	19	17
6	15	485	383	202	568	1180	2080	447	21	29	15	9.5
7	13	481	396	264	564	1190	2110	354	26	14	12	21
8	13	487	402	283	579	1150	2070	305	21	11	16	16
9	13	491	392	317	620	1080	1920	297	14	9.9	15	7.8
10	16	493	379	337	628	968	1800	326	14	16	15	7.8
11	14	500	381	343	670	893	1740	378	15	12	11	7.5
12	13	525	390	334	793	797	1680	392	16	8.3	7.5	8.4
13	14	539	397	342	872	687	1570	352	25	9.2	11	7.0
14	15	546	399	434	925	636	1420	289	32	13	15	10
15	14	539	396	495	937	651	1250	221	31	11	31	16
16	13	520	386	521	926	663	1110	170	33	8.6	24	13
17	20	491	377	510	883	657	940	124	27	11	17	11
18	21	471	323	469	818	643	809	83	23	14	9.1	13
19	24	420	230	402	765	601	667	82	20	12	9.5	21
20	107	366	120	372	738	579	599	65	17	17	11	27
21	219	355	84	359	736	571	613	44	15	31	13	17
22	308	350	60	353	770	546	653	30	13	25	15	5.4
23	380	346	50	364	771	511	688	28	14	20	16	13
24	421	350	45	386	755	440	706	21	15	15	17	15
25	445	357	43	395	745	291	725	17	13	18	19	11
26	454	367	43	389	755	203	772	14	22	23	27	8.2
27	460	373	44	380	761	291	838	16	28	19	8.1	11
28	465	382	45	376	755	676	887	18	20	29	6.4	13
29	484	386	43	369	---	997	897	16	14	31	12	17
30	508	381	40	366	---	1510	872	15	14	33	12	19
31	513	---	39	366	---	1750	---	21	---	49	11	---
TOTAL	5045	13551	7735	10058	19569	24463	38096	7555	583	588.0	756.6	381.3
MEAN	163	452	250	324	699	789	1270	244	19.4	19.0	24.4	12.7
MAX	513	546	402	521	937	1750	2110	821	33	49	148	27
MIN	11	346	39	39	368	203	599	14	13	8.3	6.4	5.4
AC-FT	10010	26880	15340	19950	38820	48520	75560	14990	1160	1170	1500	756
CAL YR 1976	TOTAL	105209.0	MEAN	287	MAX	2330	MIN	11	AC-FT	208700		
WTR YR 1977	TOTAL	126380.9	MEAN	352	MAX	2110	MIN	5.4	AC-FT	254600		

RED RIVER BASIN

07349500 BODCAU BAYOU NEAR SAREPTA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.23	8.31	7.23	2.94	7.16	9.81	14.15	10.35	2.45	2.30	4.02	2.09
2	2.17	8.30	7.21	2.99	7.35	9.68	14.01	9.97	2.39	2.23	4.78	2.08
3	2.12	8.27	7.17	3.08	7.76	10.12	13.82	9.48	2.22	2.24	3.83	2.12
4	2.09	8.24	7.14	3.25	8.13	11.20	13.92	9.02	2.22	2.29	2.68	2.21
5	2.11	8.16	7.14	4.86	8.50	11.87	14.39	8.51	2.32	3.02	2.36	2.40
6	2.21	8.08	7.29	5.51	8.68	12.28	14.87	7.79	2.46	2.68	2.24	2.12
7	2.15	8.05	7.40	6.20	8.66	12.34	15.00	7.04	2.61	2.27	2.15	2.48
8	2.13	8.09	7.44	6.39	8.76	12.16	14.85	6.59	2.48	2.15	2.26	2.35
9	2.16	8.12	7.37	6.72	9.04	11.78	14.52	6.52	2.27	2.12	2.26	2.07
10	2.25	8.13	7.26	6.90	9.09	11.20	14.21	6.79	2.27	2.33	2.26	2.07
11	2.19	8.19	7.27	6.96	9.37	10.78	14.06	7.24	2.29	2.18	2.13	2.06
12	2.14	8.36	7.35	6.87	10.17	10.20	13.90	7.36	2.34	2.06	1.98	2.10
13	2.18	8.47	7.41	6.94	10.66	9.48	13.62	7.03	2.59	2.09	2.10	2.05
14	2.21	8.52	7.42	7.69	10.97	9.15	13.19	6.44	2.77	2.21	2.28	2.17
15	2.17	8.47	7.40	8.16	11.04	9.24	12.63	5.73	2.75	2.16	2.71	2.36
16	2.16	8.33	7.32	8.35	10.98	9.32	11.93	5.10	2.81	2.06	2.52	2.28
17	2.40	8.12	7.24	8.27	10.73	9.28	11.05	4.46	2.64	2.16	2.31	2.20
18	2.43	7.98	6.77	7.96	10.33	9.19	10.27	3.80	2.53	2.25	2.06	2.28
19	2.52	7.58	5.82	7.44	9.99	8.91	9.35	3.78	2.44	2.20	2.08	2.52
20	4.16	7.15	4.40	7.19	9.83	8.76	8.90	3.49	2.36	2.34	2.12	2.70
21	5.71	7.06	3.82	7.08	9.81	8.71	8.99	3.06	2.28	2.76	2.21	2.39
22	6.63	7.01	3.39	7.04	10.03	8.53	9.26	2.72	2.23	2.58	2.30	1.99
23	7.27	6.98	3.19	7.12	10.03	8.28	9.49	2.66	2.27	2.45	2.30	2.29
24	7.59	7.02	3.10	7.31	9.94	7.74	9.61	2.46	2.28	2.28	2.34	2.34
25	7.78	7.08	3.04	7.39	9.87	6.44	9.74	2.34	2.23	2.39	2.42	2.20
26	7.85	7.16	3.04	7.34	9.93	5.51	10.04	2.26	2.50	2.53	2.64	2.11
27	7.89	7.21	3.06	7.26	9.97	6.44	10.45	2.32	2.66	2.42	2.04	2.19
28	7.93	7.28	3.10	7.22	9.93	9.39	10.75	2.37	2.44	2.71	1.98	2.29
29	8.07	7.31	3.06	7.17	---	11.34	10.81	2.32	2.27	2.75	2.21	2.42
30	8.24	7.28	2.97	7.14	---	13.24	10.66	2.28	2.25	2.80	2.21	2.47
31	8.28	---	2.94	7.14	---	14.08	---	2.47	---	3.17	2.17	---
MEAN	4.17	7.81	5.67	6.58	9.53	9.89	12.08	5.28	2.42	2.39	2.45	2.25
MAX	8.28	8.52	7.44	8.35	11.04	14.08	15.00	10.35	2.81	3.17	4.78	2.70
MIN	2.09	6.98	2.94	2.94	7.16	5.51	8.90	2.26	2.22	2.06	1.98	1.99

07349795 CYPRESS BAYOU ABOVE BENTON, LA

LOCATION.--Lat 32°47'15", long 93°42'27", in NW¼ sec.28, T.20 N., R.12 W., Bossier Parish, Hydrologic Unit 11140204, near center of span on downstream side of bridge on State Highway 160, 0.7 mi (1.1 km) southeast of Swindleville, 1.0 mi (1.6 km) northeast of Alden Bridge, and 6 mi (10 km) north of Benton.

DRAINAGE AREA.--88.9 mi² (230.3 km²).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), approximately (from topographic map).

REMARKS.--Records good. Since October 1961, flow regulated by 3 flood-control reservoirs above station (combined capacity of reservoirs, 1,784 acre-ft or 2.20 km³). Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft³/s (112 m³/s) Feb. 3, 1975, gage height, 11.99 ft (3.655 m); minimum, no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25 m³/s), no peak above the base. Maximum discharge, 575 ft³/s (16.3 m³/s) Mar. 29, gage height, 8.86 ft (2.701 m); minimum, no flow June 30 to Aug. 2, Aug. 12-24, Sept. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	5.2	6.0	5.6	19	16	142	3.4	.25	0	.08	
2	.26	4.5	3.2	5.2	23	14	97	44	.21	0	.07	
3	.25	13	3.7	6.0	39	50	133	89	.18	2.3	.05	
4	.25	2.9	4.5	7.4	80	259	168	41	.20	2.1	.03	
5	.27	.46	4.0	10	76	325	173	19	.27	.74	.01	
6	.25	.25	6.2	12	51	281	117	11	.18	.30	0	
7	.24	.20	19	16	36	154	72	7.8	.13	.21	0	
8	.27	.19	23	17	26	84	53	6.1	.10	.16	.24	
9	.28	.19	16	30	22	64	41	40	.08	.11	.20	
10	.27	.19	9.6	70	18	54	34	74	.07	.06	.11	
11	.25	.19	9.1	45	56	56	28	30	.05	.02	.09	
12	.22	.19	23	26	252	116	21	15	.03	0	.08	
13	.20	.17	34	28	287	129	17	10	.03	0	.07	
14	.19	.18	21	121	222	80	14	7.8	.02	0	.16	
15	.63	.17	13	160	118	54	13	5.7	.05	0	.14	
16	.29	.27	8.3	101	75	43	11	3.9	.13	0	.17	
17	.20	.93	6.2	54	56	35	12	2.7	.73	0	.15	
18	.16	2.4	4.5	36	46	31	68	2.3	1.1	0	.11	
19	.14	3.5	3.5	29	40	28	123	1.8	.43	0	.16	
20	.15	4.3	4.2	24	35	24	80	1.7	.31	0	.26	
21	.14	6.6	3.4	24	30	21	51	1.4	.28	0	.28	
22	.14	6.2	3.4	21	26	18	36	.99	.26	0	.20	
23	.16	5.8	3.1	21	25	16	26	.86	.21	0	.12	
24	.22	5.2	4.2	37	28	14	18	.62	.15	0	.11	
25	.31	6.2	5.6	50	34	14	13	.49	.11	3.8	.11	
26	1.1	9.4	6.8	41	30	17	9.5	.39	.07	3.0	.11	
27	1.7	14	8.1	31	24	167	7.5	.35	.04	.78	.11	
28	1.7	18	8.1	25	21	437	5.5	.35	.02	.30	.12	
29	1.6	19	8.1	21	---	555	4.4	.34	.01	.17	.12	
30	3.7	12	6.6	17	---	471	3.4	.32	0	.12	.11	
31	7.8	---	6.0	17	---	312	---	.28	---	.09	---	
TOTAL	23.60	141.78	285.4	1108.2	1795	3939	1591.3	422.59	5.70	0	14.26	3.57
MEAN	.76	4.73	9.21	35.7	64.1	127	53.0	13.6	.19	0	.46	.12
MAX	7.8	19	34	160	287	555	173	89	1.1	0	3.8	.28
MIN	.14	.17	3.1	5.2	18	14	3.4	.28	0	0	0	0
AC-FT	47	281	566	2200	3560	7810	3160	838	11	0	28	7.1
CAL YR 1976	TOTAL	15982.03	MEAN	43.7	MAX	1880	MIN	0	AC-FT	31700		
WTR YR 1977	TOTAL	9330.40	MEAN	25.6	MAX	555	MIN	0	AC-FT	18510		

RED RIVER BASIN

07349795 CYPRESS BAYOU ABOVE BENTON, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.03	2.82	2.92	2.91	3.40	3.29	5.78	2.53	2.05	1.68	1.16	1.91
2	2.02	2.79	2.75	2.89	3.52	3.23	5.08	3.91	2.01	1.64	1.16	1.89
3	2.01	3.22	2.79	2.94	3.93	4.05	5.69	4.94	1.98	1.59	1.79	1.87
4	2.01	2.70	2.85	3.01	4.78	7.06	6.19	3.95	2.00	1.54	2.26	1.83
5	2.02	2.28	2.81	3.14	4.71	7.57	6.27	3.33	2.06	1.50	2.12	1.78
6	2.01	2.11	2.94	3.21	4.23	7.27	5.41	3.01	1.98	1.48	2.03	1.74
7	2.00	2.05	3.50	3.36	3.88	5.95	4.61	2.82	1.94	1.44	1.96	1.70
8	2.02	2.04	3.66	3.42	3.61	4.84	4.23	2.72	1.90	1.39	1.92	1.83
9	2.03	2.04	3.36	3.80	3.47	4.46	3.98	3.78	1.87	1.35	1.88	2.02
10	2.04	2.03	3.11	4.65	3.37	4.26	3.80	4.64	1.86	1.31	1.84	1.95
11	2.02	2.03	3.09	4.17	4.20	4.30	3.61	3.67	1.84	1.28	1.80	1.93
12	2.00	2.03	3.64	3.71	7.03	5.40	3.43	3.20	1.81	1.24	1.75	1.90
13	1.98	2.01	3.93	3.72	7.33	5.63	3.28	2.97	1.81	1.19	1.71	1.89
14	1.97	2.02	3.58	5.52	6.77	4.76	3.17	2.82	1.80	1.16	1.67	2.00
15	2.16	2.01	3.26	6.08	5.43	4.27	3.09	2.69	1.84	1.16	1.63	1.98
16	2.06	2.12	3.05	5.15	4.68	4.02	3.02	2.57	1.93	1.16	1.59	2.01
17	1.99	2.43	2.94	4.28	4.32	3.81	3.06	2.48	2.15	1.16	1.54	2.00
18	1.95	2.66	2.84	3.89	4.13	3.69	4.47	2.42	2.27	1.16	1.51	1.97
19	1.93	2.77	2.77	3.67	3.99	3.63	5.54	2.37	2.16	1.16	1.47	2.02
20	1.94	2.83	2.82	3.55	3.84	3.51	4.76	2.35	2.11	1.16	1.43	2.07
21	1.93	2.97	2.76	3.53	3.71	3.41	4.20	2.31	2.08	1.16	1.50	2.08
22	1.94	2.95	2.76	3.44	3.61	3.32	3.84	2.25	2.06	1.16	1.60	2.03
23	1.96	2.92	2.74	3.45	3.58	3.24	3.57	2.24	2.00	1.16	1.58	2.00
24	2.03	2.89	2.82	3.90	3.65	3.15	3.32	2.20	1.95	1.16	1.56	1.99
25	2.13	2.95	2.91	4.20	3.81	3.14	3.10	2.17	1.91	1.16	2.15	1.99
26	2.33	3.10	2.98	4.02	3.70	3.26	2.93	2.15	---	1.16	2.36	1.99
27	2.44	3.30	3.04	3.74	3.55	6.05	2.80	2.14	---	1.16	2.15	1.99
28	2.46	3.44	3.04	3.58	3.44	8.14	2.68	2.15	---	1.16	2.07	2.00
29	2.45	3.51	3.04	3.45	---	8.78	2.61	2.13	---	1.16	2.01	2.00
30	2.67	3.21	2.97	3.33	---	8.38	2.54	2.11	1.75	1.16	1.96	1.99
31	2.96	---	2.93	3.31	---	7.46	---	2.08	---	1.16	1.93	---
MEAN	2.11	2.61	3.05	3.77	4.27	4.95	4.00	2.81	---	1.27	1.78	1.95
MAX	2.96	3.51	3.93	6.08	7.33	8.78	6.27	4.94	2.27	1.68	2.36	2.08
MIN	1.93	2.01	2.74	2.89	3.37	3.14	2.54	2.08	---	1.16	1.16	1.70

07349815 CYPRESS BAYOU LAKE NEAR BENTON, LA

LOCATION.--Lat 32°39'07", long 93°40'11", in sec.12, T.19 N., R.13 W., Bossier Parish, Hydrologic Unit 11140204, on downstream side of control structure about 4,500 ft (1,400 m) right of spillway, and 5.0 mi (8.0 km) southeast of Benton.

DRAINAGE AREA.--163 mi² (422 km²).

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

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft (51.816 m) above mean sea level (Louisiana Department of Transportation and Development, Office of Public Works).

REMARKS.--Reservoir is formed by a 6,000-ft (1,860-m) earthfill dam on Cypress Bayou. The 250-ft (76.2-m) concrete spillway with crest at 9.60 ft (2.936 m), gage datum, is located at left end of dam. Capacity at spillway crest, 25,000 acre-ft (30.8 hm³). A 6- by 6-ft (1.8- by 1.8-m) sluice gate with sill at -15.5 ft (-4.724 m), gage datum, is located at diversion structure 1 mi (1.6 km) upstream from spillway. Diversion structure is to divert water into Black Bayou Lake (under construction).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.16 ft (3.402 m) July 4, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.35 ft (3.155 m) Mar. 30; minimum, 8.21 ft (2.502 m) Sept. 8.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.84	8.68	8.67	8.92	9.64	9.65	10.27	9.58	9.34	8.97	8.67	8.32
2	8.83	8.68	8.68	8.93	9.63	9.63	10.16	9.67	9.32	8.95	8.66	8.30
3	8.83	8.68	8.67	8.94	9.68	9.65	10.09	9.67	9.30	8.92	8.64	8.29
4	8.81	8.68	8.67	8.93	9.68	9.88	10.09	9.69	9.25	8.90	8.60	8.27
5	8.80	8.67	8.67	8.94	9.72	9.96	10.00	9.69	9.23	8.88	8.56	8.25
6	8.81	8.65	8.78	8.96	9.72	10.04	9.98	9.66	9.22	8.90	8.55	8.26
7	8.78	8.65	8.79	8.98	9.72	10.04	9.93	9.66	9.21	8.89	8.53	8.24
8	8.77	8.65	8.78	8.98	9.70	9.98	9.88	9.64	9.16	8.87	8.51	8.22
9	8.74	8.64	8.78	9.07	9.69	9.91	9.83	9.65	9.13	8.85	8.50	8.42
10	8.73	8.64	8.79	9.08	9.68	9.86	9.79	9.65	9.11	8.84	8.48	8.50
11	8.72	8.64	8.85	9.12	9.73	9.83	9.76	9.66	9.09	8.83	8.46	8.51
12	8.71	8.65	8.88	9.14	9.91	9.84	9.72	9.65	9.07	8.81	8.44	8.51
13	8.70	8.63	8.90	9.15	9.98	9.83	9.71	9.64	9.07	8.79	8.43	8.50
14	8.69	8.64	8.90	9.32	10.02	9.84	9.69	9.62	9.11	8.77	8.41	8.51
15	8.68	8.64	8.91	9.39	9.99	9.82	9.67	9.61	9.16	8.75	8.39	8.50
16	8.68	8.62	8.92	9.52	9.93	9.79	9.65	9.59	9.18	8.73	8.38	8.51
17	8.68	8.62	8.92	9.54	9.87	9.75	9.65	9.59	9.19	8.71	8.36	8.51
18	8.65	8.61	8.92	9.61	9.83	9.74	9.72	9.57	9.18	8.69	8.40	8.50
19	8.63	8.60	8.92	9.57	9.78	9.72	9.73	9.55	9.16	8.67	8.38	8.57
20	8.64	8.63	8.97	9.58	9.75	9.70	9.77	9.54	9.16	8.65	8.36	8.60
21	8.63	8.64	8.94	9.58	9.72	9.68	9.78	9.51	9.14	8.64	8.34	8.60
22	8.62	8.62	8.92	9.59	9.71	9.67	9.76	9.50	9.12	8.63	8.37	8.60
23	8.60	8.61	8.92	9.60	9.69	9.65	9.73	9.49	9.10	8.61	8.34	8.60
24	8.61	8.60	8.91	9.63	9.69	9.64	9.71	9.48	9.08	8.59	8.41	8.60
25	8.66	8.60	8.94	9.63	9.68	9.63	9.68	9.47	9.06	8.57	8.43	8.59
26	8.65	8.65	8.94	9.63	9.64	9.63	9.65	9.46	9.03	8.57	8.41	8.59
27	8.64	8.68	8.93	9.64	9.66	9.81	9.63	9.44	9.01	8.55	8.39	8.60
28	8.62	8.70	8.94	9.64	9.65	10.10	9.61	9.42	8.98	8.54	8.38	8.60
29	8.61	8.68	8.93	9.63	---	10.23	9.60	9.40	---	8.52	8.38	8.61
30	8.70	8.67	8.93	9.63	---	10.32	9.59	9.38	---	8.51	8.36	8.60
31	8.69	---	8.94	9.66	---	10.33	---	9.36	---	8.64	8.34	---
MEAN	8.70	8.65	8.86	9.34	9.75	9.84	9.79	9.56	---	8.73	8.45	8.48
MAX	8.84	8.70	8.97	9.66	10.02	10.33	10.27	9.69	9.34	8.97	8.67	8.61
MIN	8.60	8.60	8.67	8.92	9.63	9.63	9.59	9.36	---	8.51	8.34	8.22

07350000 LOGGY BAYOU NEAR NINOCK, LA

LOCATION.--Lat 32°14'10", long 93°25'35", in SE¼SE¼ sec.31, T.15 N., R.10 W., Bienville-Bossier Parish line, Hydrologic Unit 11140203, near center of span on downstream side of bridge on U.S. Highway 71, 0.3 mi (0.5 km) downstream from Flat River, 1.9 mi (3.1 km) southeast of Ninock, and 7.5 mi (12.1 km) upstream from mouth.

DRAINAGE AREA.--2,628 mi² (6,807 km²).

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

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 100.26 ft (30.559 m) above mean sea level (levels by Corps of Engineers). Prior to Mar. 29, 1949, and June 30 to Sept. 24, 1951, nonrecording gage, at same site and datum. Sept. 15, 1955, to Sept. 30, 1964, auxiliary water-stage recorder 6.0 mi (9.7 km) downstream from base gage at datum 100.21 ft (30.544 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Some regulation by Lake Bistineau since 1935 (see sta 07349250) and of flood flows by Bodcau Bayou Reservoir (capacity, 967,900 acre-ft or 1.19 km³) since July 1949.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 47.83 ft (14.579 m) May 8, 1958; minimum, 9.46 ft (2.883 m) Oct. 23-25, 1956. 1948-64: Maximum discharge, 32,600 ft³/s (923 m³/s) May 4, 1958; no flow at times (backwater from Red River).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 31.55 ft (9.616 m) Apr. 6; minimum, 13.43 ft (4.094 m) Sept. 7, 8.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.45	16.16	14.28	16.29	18.88	21.86	---	24.25	23.01	15.88	14.89	14.00
2	14.37	15.61	14.31	15.18	18.79	21.65	---	23.50	22.73	15.92	14.69	13.91
3	14.31	15.04	14.90	14.56	18.84	21.28	---	22.90	22.48	16.12	14.54	14.06
4	14.34	15.01	15.34	14.13	18.62	22.40	---	22.61	22.45	16.12	14.85	13.99
5	14.46	15.47	15.39	13.80	18.42	22.93	31.19	22.35	22.65	16.12	15.02	13.74
6	13.91	15.77	15.47	13.68	18.47	24.95	31.52	22.13	22.96	16.64	14.86	13.57
7	13.77	15.98	15.60	13.82	18.59	---	31.43	21.87	23.16	16.47	14.56	13.48
8	13.71	16.06	15.58	15.07	18.81	---	31.08	21.50	22.56	16.02	14.34	13.43
9	13.97	15.70	16.00	15.89	19.16	---	30.74	21.08	21.61	15.55	14.29	14.02
10	15.02	15.30	16.35	16.35	19.84	---	30.37	20.87	21.13	14.94	14.35	16.73
11	15.73	15.02	16.63	16.19	20.51	25.75	29.91	20.45	20.97	14.50	14.35	17.56
12	15.74	14.65	17.27	16.18	23.16	25.23	29.38	20.19	20.64	14.27	14.16	17.19
13	15.62	14.32	17.67	16.49	24.18	24.42	28.96	20.06	19.95	14.05	14.09	16.58
14	15.48	14.06	18.01	18.05	24.01	24.14	28.77	20.09	19.24	14.05	14.15	15.96
15	15.17	13.90	19.18	19.25	24.28	23.89	28.62	19.60	18.75	14.09	14.09	15.41
16	14.86	13.86	20.25	19.94	24.62	23.90	28.32	18.76	18.37	14.36	13.95	15.00
17	14.52	13.85	20.41	20.29	24.82	23.99	27.86	18.34	18.14	14.60	13.86	14.83
18	14.30	13.94	20.36	20.66	24.80	23.88	27.46	18.48	17.89	14.58	13.85	14.73
19	14.40	14.19	20.12	20.84	24.85	23.87	26.59	18.32	17.51	14.32	13.98	14.29
20	14.58	14.25	19.85	21.04	24.64	23.39	26.10	17.84	17.09	14.06	14.09	13.90
21	14.57	14.17	19.72	21.28	24.06	23.09	25.72	17.44	16.79	14.01	14.09	13.68
22	14.51	14.17	19.57	21.15	23.60	23.04	26.24	17.22	16.77	14.34	14.05	13.67
23	14.48	14.21	19.45	20.49	23.43	22.48	27.03	17.01	16.73	14.50	13.88	14.20
24	14.45	14.23	19.18	20.10	23.46	21.84	27.79	16.83	16.62	14.46	13.68	14.33
25	14.64	14.27	18.60	19.92	23.33	21.14	27.98	16.97	16.39	14.33	13.54	14.19
26	15.00	14.59	18.03	19.74	23.00	20.48	27.62	18.19	16.22	14.19	13.60	14.08
27	15.30	14.82	17.57	19.51	22.77	20.11	26.86	20.20	15.98	14.10	13.81	13.97
28	15.54	14.90	17.26	19.22	22.30	21.01	26.28	21.50	15.70	14.23	13.93	13.76
29	15.71	14.75	17.41	19.13	---	22.41	25.84	21.85	15.77	14.80	13.87	13.64
30	16.13	14.52	17.43	18.95	---	23.23	25.14	21.94	15.96	14.81	14.46	13.61
31	16.31	---	17.08	18.99	---	---	---	22.66	---	14.81	14.41	---
MEAN	14.82	14.76	17.56	17.94	21.94	---	---	20.23	19.21	14.88	14.20	14.52
MAX	16.31	16.16	20.41	21.28	24.85	---	31.52	24.25	23.16	16.64	15.02	17.56
MIN	13.71	13.85	14.28	13.68	18.42	20.11	25.14	16.83	15.70	14.01	13.54	13.43

07351000 BOGGY BAYOU NEAR KEITHVILLE, LA

LOCATION.--Lat 32°22'35", long 93°49'17", in NW¼SE¼ sec.17, T.16 N., R.14 W., Caddo Parish, Hydrologic Unit 11140206, near right bank on downstream side of bridge on U.S. Highway 171, 0.4 mi (0.2 km) downstream from Gilmer Bayou, 3 mi (5 km) north of Keithville, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--79 mi² (205 km²).

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

REVISED RECORDS.--WSP 1211: 1939-45, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 145.13 ft (44.236 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 7, 1949, and Jan. 19 to Apr. 7, 1954, nonrecording gage at same site and datum.

REMARKS.--Records poor. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--38 years (1939-77), 70.1 ft³/s (1.99 m³/s), 12.05 in/yr (306 mm/yr), 50,790 acre-ft/yr (62.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft³/s (419 m³/s) Jan. 5, 1946, gage height, 20.2 ft (6.16 m), from graph based on gage readings, from rating curve extended above 5,200 ft³/s (147 m³/s) by velocity-area studies; no flow at times in 1939-40, 1942-44, 1947-49, 1951-60, 1962-67, 1970-74.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 26.7 ft (8.14 m) in 1933, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,400 ft³/s (40 m³/s) and maximum: Feb. 12 (0715), 2,790 ft³/s (79.0 m³/s), gage height, 17.15 ft (5.227 m); minimum daily discharge, 0.22 ft³/s (0.006 m³/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	5.1	12	19	30	24	25	16	1.7	.86	2.3	2.0
2	1.7	3.4	10	19	36	24	23	75	4.5	.82	2.1	1.6
3	1.4	3.0	9.0	20	40	90	41	35	6.9	.83	1.6	1.4
4	1.2	2.7	8.5	21	49	895	50	16	4.2	.74	1.6	1.3
5	1.0	2.4	8.0	23	39	555	40	12	12	4.3	3.2	1.2
6	.85	2.8	50	26	26	140	30	10	7.1	8.1	4.0	1.1
7	.76	2.2	60	32	21	49	20	8.8	4.7	1.4	4.2	1.0
8	2.3	2.6	55	32	18	29	15	11	3.1	.77	4.2	.95
9	.72	3.0	40	33	17	23	12	15	2.1	.66	3.6	1.0
10	.63	3.3	35	38	17	20	11	21	1.7	.61	2.1	1.2
11	.58	4.2	100	29	148	19	10	13	1.5	.49	1.4	1.0
12	.52	4.4	95	22	2350	81	9.5	9.9	1.3	.47	.94	.80
13	.42	5.9	50	22	1200	92	9.9	8.7	1.8	.41	.97	.67
14	.47	8.5	15	68	252	34	10	9.5	7.7	.36	8.2	.64
15	.41	9.2	9.5	88	77	22	11	9.2	9.0	.54	3.4	.64
16	.37	9.6	7.5	35	41	18	11	8.6	13	.42	1.8	.70
17	.30	10	13	24	26	16	14	8.1	14	.28	1.3	.79
18	.22	11	17	18	22	14	37	7.7	10	.24	18	.88
19	.23	11	18	17	21	14	38	7.0	6.4	.27	25	1.1
20	.53	14	41	16	19	13	35	7.0	3.6	4.2	11	1.3
21	.34	13	39	16	17	12	131	5.3	2.6	14	19	1.4
22	.32	12	22	17	19	12	41	5.0	2.3	12	17	1.5
23	.31	11	17	18	21	11	19	4.4	1.9	3.9	8.4	1.5
24	.44	10	15	20	26	10	13	3.6	1.8	1.3	6.8	1.2
25	.96	10	16	25	28	10	10	3.1	1.6	1.7	6.4	1.0
26	.88	13	17	23	27	17	8.4	2.6	1.4	1.7	3.4	.94
27	.76	16	20	21	26	174	10	2.4	1.2	8.1	2.6	.85
28	.96	18	20	21	26	576	9.9	2.2	1.1	12	3.1	.76
29	3.0	19	20	20	---	595	9.3	2.0	1.0	4.1	4.3	.64
30	4.5	15	20	21	---	174	9.5	1.8	1.0	4.5	3.7	.64
31	4.5	---	19	23	---	49	---	1.6	---	3.3	2.5	---
TOTAL	33.58	255.3	878.5	827	4639	3812	713.5	342.5	132.2	93.37	178.11	31.70
MEAN	1.08	8.51	28.3	26.7	166	123	23.8	11.0	4.41	3.01	5.75	1.06
MAX	4.5	19	100	88	2350	895	131	75	14	14	25	2.0
MIN	.22	2.2	7.5	16	17	10	8.4	1.6	1.0	.24	.94	.64
CFSM	.01	.11	.36	.34	2.10	1.56	.30	.14	.06	.04	.07	.01
IN.	.02	.12	.41	.39	2.18	1.79	.34	.16	.06	.04	.08	.01
AC-FT	67	506	1740	1640	9200	7560	1420	679	262	185	353	63
CAL YR 1976	TOTAL	11895.17	MEAN 32.5	MAX 1580	MIN .22	CFSM .41	IN 5.60	AC-FT 23590				
WTR YR 1977	TOTAL	11936.76	MEAN 32.7	MAX 2350	MIN .22	CFSM .41	IN 5.62	AC-FT 23680				

07351000 BOGGY BAYOU NEAR KEITHVILLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.04	9.83	---	11.02	11.38	11.00	10.95	10.47	9.32	9.15	9.55	9.89
2	8.97	9.67	---	11.03	11.55	10.99	10.87	12.46	9.58	9.14	9.50	9.99
3	8.94	9.64	---	11.08	11.65	12.38	11.51	11.20	9.86	9.14	9.44	10.10
4	8.91	9.62	---	11.12	11.93	16.18	---	10.47	9.64	9.11	9.44	10.15
5	8.89	9.57	---	11.19	11.62	15.72	---	10.25	10.16	9.44	9.63	10.19
6	8.85	9.64	---	11.30	11.21	13.75	---	10.16	9.88	9.94	9.78	10.22
7	8.83	9.56	---	11.47	11.00	11.79	---	10.06	9.70	9.28	9.79	10.25
8	9.12	9.63	---	11.47	10.88	11.15	---	10.15	9.54	9.14	9.80	10.37
9	8.85	9.68	---	11.51	10.82	10.92	---	10.37	9.40	9.11	9.73	10.40
10	8.84	9.73	---	11.66	10.79	10.79	---	10.69	9.33	9.09	9.51	10.37
11	8.83	9.82	---	11.40	12.29	10.75	---	10.29	9.29	9.05	9.38	10.40
12	8.82	9.86	---	11.19	16.97	12.56	---	10.10	9.26	9.05	9.27	10.43
13	8.81	9.99	---	11.18	16.37	12.94	---	10.03	9.32	9.03	9.27	10.45
14	8.83	10.15	---	12.44	14.84	11.31	10.23	10.07	9.93	9.01	10.03	10.46
15	8.83	10.20	---	12.93	12.60	10.86	10.28	10.05	10.00	9.08	9.68	10.48
16	8.82	10.23	10.30	11.60	11.60	10.68	10.29	10.01	10.24	9.04	9.47	10.52
17	8.80	10.28	10.65	11.25	11.11	10.57	10.44	9.98	10.31	8.98	9.34	10.57
18	8.78	10.34	10.83	11.09	10.95	10.51	11.34	9.95	10.08	8.96	10.34	10.61
19	8.80	10.36	10.89	11.03	10.88	10.47	11.39	9.90	9.85	8.98	10.88	10.68
20	8.93	10.48	11.67	11.00	10.78	10.41	11.15	9.90	9.61	9.47	10.22	10.74
21	8.88	10.45	11.60	10.98	10.70	10.38	13.71	9.78	9.50	10.38	10.44	10.76
22	8.88	10.52	11.08	10.99	10.79	10.40	11.49	9.75	9.44	10.27	10.49	---
23	8.89	10.49	10.87	11.02	10.85	10.33	10.65	9.70	9.37	9.69	10.09	---
24	8.96	10.63	10.81	11.11	11.07	10.26	10.34	9.60	9.35	9.31	9.98	10.72
25	9.14	10.77	10.82	11.25	11.15	10.28	10.18	9.54	9.31	9.39	9.95	10.67
26	9.14	10.88	10.89	11.18	11.12	10.56	10.08	9.49	9.27	9.41	9.69	10.64
27	9.11	10.98	11.03	11.11	11.08	14.12	10.18	9.45	9.24	9.83	9.60	10.61
28	9.19	11.10	11.05	11.09	11.06	15.79	10.15	9.42	9.20	10.18	9.68	10.58
29	9.49	---	11.04	11.08	---	15.82	10.12	9.39	9.19	9.73	9.81	10.54
30	9.73	---	11.04	11.08	---	14.14	10.13	9.34	9.19	9.79	9.75	10.54
31	9.74	---	11.02	11.16	---	11.74	---	9.30	---	9.67	9.78	---
MEAN	8.99	---	---	11.29	11.75	11.92	---	10.04	9.58	9.38	9.78	---
MAX	9.74	---	---	12.93	16.97	16.18	13.71	12.46	10.31	10.38	10.88	---
MIN	8.78	9.56	10.30	10.98	10.70	10.26	10.08	9.30	9.19	8.96	9.27	9.89

07352000 SALINE BAYOU NEAR LUCKY, LA

LOCATION.--Lat 32°15'00", long 92°58'35", in SW¼SW¼ 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 (1.1 km) downstream from Sixmile Creek, and 1.0 mi (1.6 km) east of Lucky.

DRAINAGE AREA.--154 mi² (399 km²).

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

REVISED RECORDS.--WSP 1177: Drainage area.

GAGE.--Duplex water-stage recorder (rain gage and water stage combination). Datum of gage is 152.65 ft (46.528 m) above mean sea level. Prior to Feb. 28, 1949, nonrecording gage, Mar. 1, 1949, to Apr. 26, 1971, water-stage recorder, at same site and datum.

REMARKS.--Records poor. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--37 years, 165 ft³/s (4.673 m³/s), 14.55 in/yr (370 mm/yr), 119,500 acre-ft/yr (147 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s (382 m³/s) Jan. 1, 1945, gage height, 12.9 ft (3.93 m), from rating curve extended above 6,400 ft³/s (180 m³/s) on basis of records for Black Lake Bayou near Castor and Dugdemona River near Jonesboro; minimum discharge, 2.4 ft³/s (0.068 m³/s) Aug. 14, 1954, minimum gage height, 1.66 ft (0.506 m) Aug. 7, 8, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s), no peaks above base. Maximum discharge, 781 ft³/s (22.1 m³/s) Feb. 13, gage height, 6.53 ft (1.990 m); minimum daily discharge, 5.8 ft³/s (0.16 m³/s) Sept. 5, 6; minimum gage height, 2.80 ft (0.853 m) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	51	87	66	76	69	480	25	12	8.4	13	9.0
2	33	44	83	67	79	67	400	87	13	8.8	12	7.8
3	31	43	77	72	139	123	390	92	14	9.0	11	7.2
4	32	44	72	79	361	646	385	66	17	12	9.8	6.6
5	34	44	70	81	390	736	380	46	16	14	8.6	5.8
6	38	45	122	95	282	694	356	30	16	13	9.8	5.8
7	36	46	229	120	153	658	282	23	16	11	11	6.4
8	32	47	150	104	110	390	163	20	15	9.6	9.2	9.0
9	33	50	98	118	93	168	129	20	15	9.0	7.8	12
10	32	52	74	139	86	135	111	19	15	9.6	7.2	12
11	31	55	79	141	105	139	97	18	16	11	6.6	11
12	29	64	108	127	510	229	84	19	16	11	6.6	10
13	28	73	108	112	760	282	75	18	17	8.5	7.6	10
14	27	78	89	445	724	289	67	15	23	7.5	9.6	29
15	26	78	76	532	748	183	61	12	32	12	13	19
16	28	71	67	465	556	130	59	11	33	16	14	12
17	30	65	64	338	238	114	55	10	24	16	11	10
18	30	62	61	156	150	103	60	11	24	11	16	9.6
19	31	62	69	101	132	98	72	12	18	9.5	21	14
20	36	67	143	86	116	102	101	10	16	9.0	15	23
21	37	73	139	81	104	94	134	9.8	15	16	12	15
22	35	73	114	76	95	83	119	9.8	15	10	17	11
23	34	67	96	82	92	76	92	9.0	13	9.2	16	10
24	34	64	78	120	100	75	70	8.4	11	11	14	9.6
25	40	64	76	105	99	75	49	9.4	9.6	12	17	9.2
26	42	73	78	95	95	75	36	9.6	8.8	11	13	9.4
27	41	83	74	86	86	103	28	9.8	8.0	11	10	9.4
28	41	96	69	78	77	400	23	9.6	8.2	15	13	9.6
29	46	102	66	73	---	640	20	10	8.2	19	14	9.8
30	78	93	64	73	---	640	19	11	8.2	15	15	9.8
31	71	---	66	73	---	598	---	12	---	15	11	---
TOTAL	1130	1929	2846	4386	6556	8214	4397	672.4	478.0	360.1	371.8	332.0
MEAN	36.5	64.3	91.8	141	234	265	147	21.7	15.9	11.6	12.0	11.1
MAX	78	102	229	532	760	736	480	92	33	19	21	29
MIN	26	43	61	66	76	67	19	8.4	8.0	7.5	6.6	5.8
CFSM	.24	.42	.60	.92	1.52	1.72	.95	.14	.10	.08	.08	.07
IN.	.27	.47	.69	1.06	1.58	1.98	1.06	.16	.12	.09	.09	.08
AC-FT	2240	3830	5650	8700	13000	16290	8720	1330	948	714	737	659
(+)	1.50	1.84	5.84	4.61	3.34	6.25	2.34	1.10	2.75	1.51	2.72	2.78

CAL YR 1976 TCIAL 40252.0 MEAN 110 MAX 900 MIN 13 CFSM .71 IN 9.72 AC-FT 79840
WTR YR 1977 TCIAL 31672.3 MEAN 86.8 MAX 760 MIN 5.8 CFSM .56 IN 7.65 AC-FT 62820

NOTE.--++ Precipitation, in inches, during month at rain gage at station. Total for calendar year 1976, 48.46 inches; total for water year 1977, 36.58 inches.

07352000 SALINE BAYOU NEAR LUCKY, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.26	3.72	4.21	4.09	4.46	4.22	6.02	3.51	3.16	3.18	3.39	3.21
2	3.22	3.57	4.15	4.10	4.50	4.18	5.86	4.46	3.19	3.20	3.34	3.15
3	3.18	3.55	4.04	4.19	5.12	4.67	5.84	4.52	3.21	3.21	3.29	3.12
4	3.21	3.56	3.96	4.30	5.78	6.31	5.83	4.18	3.32	3.35	3.25	3.09
5	3.28	3.57	3.93	4.34	5.84	6.46	5.82	3.89	3.30	3.42	3.19	3.05
6	3.37	3.58	4.72	4.54	5.62	6.39	5.77	3.60	3.29	3.37	3.25	3.05
7	3.35	3.59	5.50	4.88	5.22	6.33	5.62	3.46	3.27	3.30	3.29	3.08
8	3.29	3.61	5.19	4.67	4.90	5.84	5.26	3.40	3.26	3.24	3.22	3.21
9	3.32	3.66	4.58	4.85	4.71	5.28	4.95	3.39	3.26	3.21	3.15	3.33
10	3.31	3.70	4.22	5.08	4.61	5.02	4.71	3.38	3.26	3.24	3.12	3.35
11	3.30	3.75	4.30	5.11	4.86	5.06	4.51	3.35	3.27	3.30	3.09	3.31
12	3.28	3.91	4.72	4.96	6.08	5.50	4.33	3.36	3.27	3.31	3.09	3.26
13	3.27	4.04	4.72	4.79	6.50	5.62	4.18	3.34	3.31	3.08	3.14	3.28
14	3.24	4.13	4.45	5.95	6.44	5.64	4.04	3.25	3.45	2.82	3.24	3.71
15	3.24	4.13	4.25	6.12	6.48	5.36	3.95	3.14	3.65	2.84	3.38	3.54
16	3.28	4.00	4.11	5.99	6.16	4.96	3.91	3.12	3.66	3.03	3.42	3.36
17	3.34	3.90	4.05	5.74	5.52	4.75	3.84	3.08	3.60	3.14	3.31	3.26
18	3.34	3.85	4.01	5.24	5.16	4.60	3.93	3.12	3.52	3.07	3.46	3.24
19	3.36	3.84	4.14	4.82	4.98	4.52	4.13	3.14	3.42	3.10	3.57	3.42
20	3.45	3.95	5.12	4.62	4.80	4.58	4.57	3.09	3.38	3.17	3.43	3.60
21	3.48	4.03	5.09	4.54	4.66	4.47	5.00	3.06	3.36	3.47	3.36	3.45
22	3.43	4.02	4.80	4.45	4.55	4.31	4.84	3.06	3.35	3.28	3.50	3.32
23	3.41	3.91	4.56	4.55	4.52	4.20	4.52	3.02	3.32	3.22	3.47	3.26
24	3.42	3.86	4.28	4.98	4.61	4.17	4.23	2.99	3.26	3.30	3.41	3.24
25	3.52	3.86	4.25	4.86	4.60	4.18	3.93	3.04	3.22	3.35	3.50	3.22
26	3.55	4.00	4.28	4.74	4.55	4.17	3.71	3.05	3.19	3.32	3.37	3.23
27	3.54	4.17	4.22	4.62	4.45	4.60	3.57	3.06	3.16	3.30	3.28	3.23
28	3.53	4.34	4.13	4.48	4.32	5.86	3.46	3.05	3.17	3.43	3.37	3.24
29	3.64	4.43	4.08	4.41	---	6.30	3.40	3.08	3.17	3.55	3.40	3.25
30	4.18	4.30	4.06	4.40	---	6.30	3.36	3.12	3.17	3.45	3.43	3.25
31	4.06	---	4.08	4.41	---	6.23	---	3.15	---	3.44	3.32	---
MEAN	3.41	3.88	4.39	4.80	5.14	5.16	4.57	3.34	3.31	3.25	3.32	3.28
MAX	4.18	4.43	5.50	6.12	6.50	6.46	6.02	4.52	3.66	3.55	3.57	3.71
MIN	3.18	3.55	3.93	4.09	4.32	4.17	3.36	2.99	3.16	2.82	3.09	3.05

07352800 GRAND BAYOU NEAR COUSHATTA, LA

LOCATION.--Lat 32°02'55", long 93°18'10", in SW¼SW¼ 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 (0.8 km) upstream from Carrol Creek, and 3.3 mi (5.3 km) north of Coushatta.

DRAINAGE AREA.--93.9 mi² (243 km²).

PERIOD OF RECORD.--October 1956 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 136.26 ft (41.532 m) above mean sea level.

REMARKS.--Records fair. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--21 years, 90.6 ft³/s (2.566 m³/s), 13.10 in/yr (333 mm/yr), 65,600 acre-ft/yr (80.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,920 ft³/s (224 m³/s) Sept. 21, 1958, gage height, 11.47 ft (3.496 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s or 20 m³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 13	1915	*1230 34.8	*8.33 2.539	Mar. 29	2400	784 22.2	7.82 2.384

Minimum discharge, 0.01 ft³/s (0.0003 m³/s) July 8, 9, 13, 14, 19-27; minimum gage height, 0.41 ft (0.125 m) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.20	.17	9.9	38	13	442	16	.26	.04	.48	.06
2	.12	.10	.17	11	60	11	455	216	.20	.04	.32	.05
3	.11	.06	.17	11	178	48	461	287	.23	.04	.25	.05
4	.11	.05	.17	18	418	413	385	96	.20	.02	.17	.05
5	.12	.07	.18	32	480	524	297	30	.16	.08	.21	.05
6	.11	.08	5.7	40	413	532	228	15	.16	.06	.22	.05
7	.10	.08	52	91	153	378	106	8.5	.13	.02	.21	.08
8	.09	.08	69	117	68	116	52	5.7	.10	.01	.15	.95
9	.10	.10	46	71	46	58	32	4.1	.10	.01	.12	18
10	.09	.11	21	127	36	42	24	3.3	.13	.04	.10	3.9
11	.07	.09	13	175	63	57	16	2.9	.13	.02	.08	1.1
12	.07	.12	15	77	592	424	11	2.5	.10	.02	.09	.42
13	.06	.13	24	50	985	529	12	1.9	.09	.01	.09	.26
14	.06	.16	32	375	1050	469	9.6	1.6	.16	.01	.08	.16
15	.05	.12	24	476	734	198	7.2	1.4	.16	.04	.08	.14
16	.06	.12	15	522	499	72	5.4	1.2	.13	.04	.08	.20
17	.05	.10	10	422	145	47	6.5	1.0	.10	.02	.06	.18
18	.05	.10	6.6	131	69	38	55	.76	.09	.02	.22	.12
19	.04	.13	6.9	54	51	27	188	.71	.07	.01	.10	.24
20	.05	.15	90	39	40	28	202	.58	.07	.01	.08	.18
21	.05	.13	283	31	30	26	91	.42	.07	.01	.09	.10
22	.05	.15	235	25	25	22	59	.39	.06	.01	.09	.09
23	.05	.15	64	25	22	18	38	.39	.07	.01	.08	.09
24	.06	.16	29	32	21	15	23	.39	.07	.01	.08	.08
25	.10	.16	20	56	20	13	14	.39	.06	.01	.06	.06
26	.08	.18	18	57	19	14	9.9	.39	.07	.01	.06	.06
27	.08	.18	24	42	17	38	6.8	.39	.06	.01	.07	.07
28	.10	.21	23	33	14	466	4.4	.39	.05	9.2	.08	.06
29	.20	.19	17	27	---	693	2.9	.32	.05	10	.08	.06
30	.30	.17	13	22	---	751	2.3	.32	.02	2.1	.07	.06
31	.50	---	12	22	---	575	---	.29	---	.88	.06	---
TOTAL	3.19	3.83	1169.06	3220.9	6286	6655	3246.0	700.23	3.35	22.81	4.01	26.97
MEAN	.10	.13	37.7	104	225	215	108	22.6	.11	.74	.13	.90
MAX	.50	.21	283	522	1050	751	461	287	.26	10	.48	.18
MIN	.04	.05	.17	9.9	14	11	2.3	.29	.02	.01	.06	.05
CFSM	.001	.001	.40	1.11	2.40	2.29	1.15	.24	.001	.007	.001	.009
IN.	.001	.002	.46	1.28	2.49	2.64	1.29	.28	.001	.009	.002	.01
AC-FT	6.3	7.6	2320	6390	12470	13200	6440	1390	6.6	45	8.0	53

CAL YR 1976	TOTAL	31599.36	MEAN 86.3	MAX 1160	MIN .04	CFSM .92	IN 12.52	AC-FT 62680
WTR YR 1977	TOTAL	21341.35	MEAN 58.5	MAX 1050	MIN .01	CFSM .62	IN 8.45	AC-FT 42330

RED RIVER BASIN

07352800 GRAND BAYOU NEAR COUSHATTA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	---	.55	1.43	2.45	1.57	6.78	1.39	.56	.48	.54	.81
2	.51	---	.55	1.48	3.04	1.49	6.86	4.95	.55	.48	.51	.80
3	.50	---	.55	1.50	4.54	2.28	6.89	5.65	.55	.48	.49	.80
4	.50	.47	.55	1.79	6.62	6.57	6.39	3.57	.54	.47	.47	.80
5	.51	.48	.55	2.29	7.00	7.17	5.73	2.24	.54	.50	.48	.80
6	.50	.49	1.07	2.54	6.59	7.21	5.13	1.69	.54	.49	.48	.80
7	.49	.49	2.85	3.56	4.37	6.31	3.81	1.34	.53	.47	.48	.83
8	.48	.49	3.29	3.98	3.21	3.93	2.84	1.16	.52	.47	.47	.96
9	.49	.51	2.75	3.26	2.70	3.00	2.28	1.04	.52	.46	.46	1.81
10	.49	.51	1.95	4.05	2.40	2.58	2.04	.97	.53	.48	.55	1.25
11	.48	.50	1.59	4.65	2.99	2.79	1.72	.93	.53	.47	.84	1.02
12	.48	.51	1.69	3.34	7.23	6.65	1.51	.89	.53	.46	.85	.94
13	.47	.52	2.11	2.76	8.06	7.20	1.53	.82	.52	.47	.85	.90
14	.47	.54	2.38	6.28	8.15	6.90	1.41	.78	.56	.46	.84	.88
15	.46	.52	2.07	6.98	7.72	4.80	1.27	.75	.55	.48	.84	.88
16	.47	.52	1.71	7.17	6.88	3.29	1.14	.73	.54	.48	.84	.88
17	.46	.51	1.46	6.61	4.27	2.72	1.22	.70	.53	.47	.77	.89
18	.46	.51	1.23	4.08	3.23	2.47	2.83	.66	.52	.47	.88	.87
19	---	.53	1.23	2.94	2.83	2.14	4.75	.65	.51	.46	.86	.90
20	---	.53	3.39	2.49	2.53	2.17	4.89	.63	.51	.47	.84	.89
21	---	.52	5.56	2.25	2.23	2.11	3.59	.60	.51	.46	.85	.87
22	---	.53	5.16	2.09	2.05	1.98	3.02	.59	.51	.45	.85	.86
23	---	.53	3.07	2.06	1.98	1.83	2.47	.59	.51	.45	.84	.86
24	---	.54	2.21	2.27	1.92	1.67	1.99	.59	.51	.44	.84	.85
25	---	.54	1.91	2.96	1.88	1.60	1.62	.58	.50	.44	.82	.83
26	---	.55	1.81	2.98	1.86	1.62	1.43	.59	.52	.43	.82	.83
27	---	.55	2.02	2.58	1.76	2.35	1.24	.59	.51	.43	.83	.83
28	---	.57	2.00	2.33	1.63	6.57	1.06	.59	---	1.01	.84	.83
29	---	.56	1.77	2.13	---	7.65	.93	.58	.49	1.41	.84	.83
30	---	.55	1.61	1.95	---	7.76	.87	.58	.47	.79	.83	.81
31	---	---	1.52	1.96	---	7.34	---	.57	---	.61	.81	---
MEAN	---	---	2.01	3.19	4.00	4.06	2.97	1.23	---	.53	.73	.90
MAX	---	---	5.56	7.17	8.15	7.76	6.89	5.65	---	1.41	.88	1.81
MIN	---	---	.55	1.43	1.63	1.49	.87	.57	---	.43	.46	.80

07352895 BLACK LAKE BAYOU NEAR CLARENCE, LA

LOCATION.--Lat 31°52'24", long 92°58'00", in NW¼SE¼ sec.3, T.10 N., R.5 W., Natchitoches Parish, Hydrologic Unit 11140209, on downstream side of bridge on parish road, 1.8 mi (2.9 km) northeast of Chivery Dam, 2.8 mi (4.5 km) upstream from Allen Dam, and 5.0 mi (8.0 km) northeast of Clarence.

DRAINAGE AREA.--908 mi² (2,352 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 94.49 ft (28.801 m) above mean sea level.

REMARKS.--Considerable regulation by Allen and Chivery Dams; combined usable capacity, 161,000 acre-ft (198 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.88 ft (3.926 m) Jan. 30, 1974; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.96 ft (1.817 m) Aug. 30; minimum, not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.57	3.39	3.67	4.13	4.22	4.30	5.00	3.92	3.32	3.07	3.08	5.43
2	3.54	3.40	3.69	4.09	4.21	4.22	5.10	4.26	3.30	3.07	3.05	4.82
3	3.52	3.41	3.69	4.11	4.23	4.17	5.18	4.33	3.27	3.04	---	4.29
4	3.50	3.41	3.70	4.07	4.38	4.86	5.29	4.35	3.27	3.03	---	3.94
5	3.49	3.42	3.70	4.08	4.45	5.03	5.48	4.34	3.26	3.01	---	3.74
6	3.50	3.41	3.74	4.03	4.49	5.14	5.55	4.30	3.23	3.11	---	3.62
7	3.46	3.42	3.91	4.06	4.55	5.19	5.54	4.24	3.20	3.10	---	3.65
8	3.44	3.43	3.90	4.05	4.58	5.21	5.46	4.18	3.16	3.09	---	3.17
9	3.40	3.43	3.92	4.14	4.58	5.19	5.33	4.12	3.14	3.08	---	2.83
10	3.39	3.44	3.94	4.19	4.55	5.12	5.19	4.05	3.13	3.06	---	2.68
11	3.38	3.45	4.01	4.18	4.55	5.02	5.05	3.97	3.11	3.06	2.96	2.85
12	3.37	3.47	4.12	4.20	4.67	5.16	4.92	3.91	3.11	3.05	2.50	3.12
13	3.37	3.45	4.19	4.20	4.80	5.16	4.82	3.86	3.13	3.04	2.32	3.07
14	3.36	3.48	4.21	4.46	4.91	5.16	4.71	3.81	3.15	3.07	2.31	2.94
15	3.35	3.47	4.21	4.57	5.03	5.17	4.61	3.76	3.21	3.06	2.51	2.81
16	3.36	3.47	4.21	4.66	5.13	5.15	4.50	3.71	3.22	3.06	2.68	2.55
17	3.36	3.47	4.19	4.74	5.19	5.07	4.43	3.66	3.23	3.05	2.62	2.32
18	3.32	3.46	4.17	4.89	5.19	4.99	4.39	3.64	3.24	3.03	2.79	---
19	3.32	3.49	4.14	4.82	5.15	4.89	4.34	3.61	3.22	3.04	3.02	---
20	3.35	3.56	4.29	4.82	5.06	4.84	4.29	3.58	3.22	3.02	2.85	---
21	3.30	3.57	4.21	4.77	4.97	4.76	4.37	3.53	3.21	3.01	2.63	---
22	3.30	3.56	4.19	4.72	4.88	4.67	4.37	3.51	3.21	3.00	2.67	---
23	3.26	3.56	4.25	4.66	4.86	4.57	4.34	3.49	3.20	3.01	2.67	---
24	3.29	3.56	4.25	4.65	4.78	4.48	4.29	3.47	3.19	2.98	2.51	---
25	3.37	3.56	4.33	4.57	4.67	4.40	4.25	3.46	3.18	2.99	2.34	---
26	3.30	3.58	4.33	4.50	4.57	4.32	4.17	3.45	3.15	2.98	2.64	---
27	3.30	3.63	4.31	4.45	4.49	4.26	4.11	3.43	3.14	2.98	2.45	---
28	3.29	3.69	4.29	4.40	4.39	4.36	4.05	3.41	3.13	3.01	3.01	---
29	3.27	3.70	4.26	4.34	---	4.51	4.00	3.38	3.12	3.02	4.42	---
30	3.41	3.67	4.21	4.28	---	4.69	3.95	3.36	3.09	3.06	5.87	---
31	3.40	---	4.21	4.29	---	4.83	---	3.35	---	3.06	5.80	---
MEAN	3.38	3.50	4.08	4.39	4.70	4.80	4.70	3.79	3.19	3.04	---	---
MAX	3.57	3.70	4.33	4.89	5.19	5.21	5.55	4.35	3.32	3.11	5.87	---
MIN	3.26	3.39	3.67	4.03	4.21	4.17	3.95	3.35	3.09	2.98	2.31	---

RED RIVER BASIN

07353000 SALINE BAYOU NEAR CLARENCE, LA

LOCATION.--Lat 31°49'05", long 92°56'55", in SE¼ sec.26, T.10 N., R.6 W., Natchitoches-Winn Parish line, Hydrologic Unit 11140208, near center of span on downstream side of bridge on U.S. Highway 84, 1.8 mi (2.9 km) downstream from Bayou Bourbeaux, 4.0 mi (6.4 km) downstream from Allen Dam, 4.6 mi (7.4 km) east of Clarence, and 6.7 mi (10.8 km) upstream from mouth.

DRAINAGE AREA.--1,386 mi² (3,590 km²).

PERIOD OF RECORD.--October 1949 to December 1973. January 1974 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 72.75 ft (22.174 m) above mean sea level (levels by Louisiana Department of Transportation and Development, Office of Public Works). Prior to Nov. 2, 1954, nonrecording gage at same site and datum. Supplementary water-stage recorder 6.8 mi (10.9 km) upstream (see sta 07352895) at datum 94.49 ft (28.800 m) above mean sea level. Prior to Nov. 3, 1954, auxiliary nonrecording gage; Nov. 3, 1954, to Dec. 3, 1969, auxiliary water-stage recorder; and Mar. 1 to Dec. 31, 1975, auxiliary nonrecording gage 5.3 mi (8.5 km) downstream at datum 72.97 ft (22.241 m) above mean sea level.

AVERAGE DISCHARGE.--24 years (1950-73), 1,182 ft³/s (33.47 m³/s), 856,400 acre-ft/yr (1.06 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Current year: Maximum gage height, 25.13 ft (7.660 m) Apr. 7; minimum, 2.33 ft (0.710 m) Aug. 17. Period of gage-height record January 1974 to September 1977: Maximum gage height, 30.95 ft (9.434 m) Jan. 30, 1974; minimum, 2.33 ft (0.710 m) Aug. 17, 1977.

Period of discharge record October 1949 to December 1973: Maximum discharge, 14,200 ft³/s (402 m³/s) May 19, 1953; maximum daily reverse flow, 6,570 ft³/s (186 m³/s) May 11, 1958 (backwater from Red River); maximum gage height, 40.46 ft (12.332 m) May 21, 1953; minimum discharge (unaffected by backwater), 0.75 ft³/s (0.021 m³/s) Oct. 12, 22, 1972.

Flood of April 1944 reached a stage of 43.6 ft (13.3 m), from information by local resident.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.99	5.12	4.94	8.98	10.45	12.46	21.26	15.50	12.50	4.32	3.05	3.03
2	3.77	5.13	4.98	8.46	10.24	11.92	23.17	15.37	12.84	4.32	3.14	3.02
3	3.62	4.81	4.94	8.48	10.48	11.61	23.50	14.48	12.66	4.32	3.05	3.02
4	3.41	4.34	5.10	7.92	11.36	14.97	23.61	13.94	12.39	4.64	2.92	3.10
5	3.23	4.07	5.35	7.77	11.54	15.75	24.42	13.54	12.37	4.89	3.09	3.11
6	3.59	4.26	5.54	7.40	11.66	16.59	24.92	13.20	12.67	5.07	3.40	3.16
7	3.26	4.60	7.30	7.78	11.86	18.74	25.09	12.78	13.00	5.19	3.38	3.18
8	3.22	4.87	7.09	7.52	12.02	19.54	24.85	12.33	13.02	5.12	3.22	3.18
9	2.95	4.99	7.14	8.37	12.13	19.53	24.24	11.79	12.22	4.75	2.95	3.18
10	2.85	4.83	7.34	9.14	12.13	19.24	23.61	11.18	11.25	4.30	2.78	3.25
11	3.30	4.49	7.68	8.97	12.37	18.68	22.86	10.70	10.68	3.82	2.75	3.27
12	4.12	4.29	8.73	9.08	13.39	18.95	22.14	10.16	10.52	3.36	3.00	3.29
13	4.46	3.93	9.47	9.14	14.65	18.24	21.46	9.75	9.92	3.01	2.73	3.29
14	4.42	3.76	9.69	10.97	15.43	17.51	20.86	9.50	9.06	2.72	2.46	3.29
15	4.33	3.46	9.92	11.94	16.24	17.09	20.54	9.35	8.34	2.57	2.44	3.30
16	4.15	3.20	10.64	12.93	17.10	16.73	20.14	8.75	7.66	2.64	2.45	3.30
17	3.89	3.18	11.22	13.52	17.72	16.37	19.60	7.92	7.23	2.75	2.36	3.29
18	3.52	3.11	11.29	14.33	17.90	16.07	19.00	7.35	6.97	2.94	2.43	3.27
19	3.23	3.18	11.10	14.22	17.71	15.73	17.99	7.24	6.69	2.98	3.21	3.27
20	3.31	3.63	11.70	14.30	17.44	15.39	16.99	7.09	6.28	2.79	3.13	3.25
21	3.30	4.02	11.12	14.21	16.86	14.82	16.86	6.63	5.81	2.57	3.54	3.33
22	3.35	4.02	10.88	14.04	16.13	14.45	16.70	6.25	5.49	2.46	3.18	3.35
23	3.32	3.92	10.89	13.61	15.56	13.99	17.37	6.00	5.37	2.56	2.97	3.42
24	3.25	3.96	10.78	13.23	15.19	13.32	18.26	5.78	5.33	2.80	2.93	3.41
25	3.31	4.00	11.15	12.63	14.70	12.60	19.02	5.63	5.24	2.76	2.93	3.40
26	3.34	4.04	10.95	12.17	14.19	11.82	19.08	5.60	5.04	2.65	2.92	3.37
27	3.58	4.58	10.41	11.83	13.76	11.18	18.60	6.75	4.81	2.58	2.91	3.42
28	3.91	5.08	10.07	11.47	13.13	11.81	17.71	9.18	4.59	2.49	2.92	3.41
29	4.18	5.42	9.75	11.06	---	12.50	17.10	10.76	4.27	2.45	2.90	3.39
30	4.70	5.03	9.44	10.67	---	13.86	16.44	11.29	4.18	2.88	2.89	3.37
31	4.90	---	9.48	10.73	---	17.48	---	11.59	---	2.93	3.04	---
MEAN	3.67	4.24	8.91	10.87	14.05	15.45	20.58	9.92	8.61	3.41	2.94	3.26
MAX	4.90	5.42	11.70	14.33	17.90	19.54	25.09	15.50	13.02	5.19	3.54	3.42
MIN	2.85	3.11	4.94	7.40	10.24	11.18	16.44	5.60	4.18	2.45	2.36	3.02

07353520 NANTACHIE LAKE NEAR ALOHA, LA

LOCATION.--Lat 31°37'00", long 92°47'04", in SE 1/4 sec. 4, T.7 N., R.4 W., Grant Parish, Hydrologic Unit 11140207, at dam 2.0 mi (3.2 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Aloha.

DRAINAGE AREA.--80.4 mi² (208 km²).

PERIOD OF RECORD.--February 1969 to current year.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 92.28 ft (28.127 m) above mean sea level (levels by Louisiana Department of Transportation and Development, Office of Public Works).

REMARKS.--Records good. Reservoir is formed on Nantachie Creek by earthfill dam, completed in 1964. Storage began Oct. 19, 1964. The dam contains a 150-ft (46 m) concrete spillway. Records of daily discharge are outflow over spillway and do not include flow through sluice gate. During periods of Red River backwater, discharges are not computed when spillway is submerged (reverse flow can occur). Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,470 ft³/s (268 m³/s) Apr. 13, 1974, gage height, 9.12 ft (2.780 m); no flow at times most years; minimum gage height not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 995 ft³/s (28.18 m³/s) Mar. 5, gage height, 4.56 ft (1.390 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	34	40	43	431	49	0	0	0	14
2			0	31	40	40	385	178	0	0	0	12
3			0	37	100	86	314	287	0	0	0	8.5
4			0	34	194	511	254	307	0	0	0	5.5
5			0	37	224	931	189	236	0	0	0	3.0
6		3.0		46	218	800	156	162	0	0	0	2.0
7		20		60	167	536	125	100	0	0	0	1.0
8		22		60	115	356	100	72	0	0	0	0
9		22		145	80	242	84	49	0	0	0	5.5
10		20		178	60	183	68	37	0	0	0	12
11			28	178	68	236	52	24	0	0	0	10
12			52	172	105	544	43	18	0	0	0	8.5
13			76	135	130	561	37	16	0	0	0	5.5
14			76	151	145	528	31	16	0	0	0	5.5
15			72	162	135	416	26	18	8.5	0	0	5.5
16			56	183	115	294	24	20	14	0	0	4.0
17			43	167	100	200	43	20	20	0	0	3.0
18			37	115	92	167	52	18	16	0	1.0	2.0
19			31	76	88	130	68	16	10	0	18	5.5
20			46	64	76	110	80	14	8.5	0	18	8.5
21			43	46	72	92	151	14	7.0	0	22	7.0
22			40	37	60	72	178	16	4.0	0	52	5.5
23			43	40	68	56	156	16	2.0	0	96	3.0
24			37	43	64	43	125	14	0	0	92	2.0
25			49	46	52	37	100	14	0	0	64	1.0
26			68	52	64	31	80	12	0	0	40	0
27			84	52	56	26	68	10	0	0	28	0
28			100	49	49	72	56	7.7	0	8.5	24	0
29			84	37	---	167	46	4.0	0	7.0	20	0
30			60	40	---	254	37	3.0	0	5.5	16	0
31			46	43	---	294	---	2.0	---	1.0	16	---
TOTAL	0	0	1258.0	2550	2777	8058	3559	1769.7	90.0	22.0	507.0	140.0
MEAN	0	0	40.6	82.3	99.2	260	119	57.1	3.00	.71	16.4	4.67
MAX	0	0	100	183	224	931	431	307	20	8.5	96	14
MIN	0	0	0	31	40	26	24	2.0	0	0	0	0
AC-FT	0	0	2500	5060	5510	15980	7060	3510	179	44	1010	278

CAL YR 1976 TOTAL 12,787.0 MEAN 34.9 MAX 423 MIN 0 AC-FT 25,360
WTR YR 1977 TOTAL 20,730.7 MEAN 56.8 MAX 931 MIN 0 AC-FT 41,120

07353520 NANTACHIE LAKE NEAR ALOHA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.91	2.72	2.97	3.24	3.26	3.27	3.95	3.29	3.05	2.92	3.05	3.15
2	2.90	2.71	2.99	3.23	3.26	3.26	3.89	3.57	3.04	2.91	3.02	3.14
3	2.88	2.71	2.99	3.25	3.42	3.37	3.79	3.75	3.02	2.91	3.01	3.12
4	2.86	2.71	3.00	3.24	3.60	4.05	3.70	3.78	3.00	2.90	2.98	3.10
5	2.86	2.70	3.00	3.25	3.65	4.50	3.59	3.67	2.99	2.89	2.96	3.08
6	2.86	2.69	3.08	3.28	3.64	4.37	3.53	3.54	2.97	2.93	2.95	3.07
7	2.85	2.69	3.18	3.32	3.55	4.08	3.47	3.42	2.95	2.91	2.94	3.06
8	2.83	2.68	3.19	3.32	3.45	3.85	3.42	3.35	2.91	2.90	2.93	3.05
9	2.81	2.68	3.19	3.51	3.37	3.68	3.38	3.29	2.89	2.89	2.91	3.10
10	2.79	2.67	3.18	3.57	3.32	3.58	3.34	3.25	2.87	2.87	2.90	3.14
11	2.78	2.68	3.22	3.57	3.34	3.67	3.30	3.20	2.85	2.86	2.91	3.13
12	2.77	2.68	3.30	3.56	3.43	4.09	3.27	3.17	2.86	2.86	2.96	3.12
13	2.77	2.68	3.35	3.49	3.48	4.11	3.25	3.16	2.94	2.84	2.96	3.10
14	2.76	2.72	3.36	3.52	3.51	4.07	3.23	3.16	3.04	2.84	2.96	3.10
15	2.75	2.72	3.35	3.54	3.49	3.93	3.21	3.17	3.12	2.83	2.96	3.10
16	2.75	2.72	3.31	3.58	3.45	3.76	3.20	3.18	3.15	2.81	2.95	3.09
17	2.74	2.72	3.27	3.55	3.42	3.61	3.27	3.18	3.18	2.79	2.93	3.08
18	2.73	2.72	3.25	3.45	3.40	3.55	3.30	3.17	3.16	2.77	3.06	3.07
19	2.72	2.73	3.23	3.36	3.39	3.48	3.34	3.16	3.13	2.76	3.17	3.10
20	2.71	2.78	3.28	3.33	3.36	3.44	3.37	3.15	3.12	2.75	3.17	3.12
21	2.69	2.79	3.27	3.28	3.35	3.40	3.52	3.15	3.11	2.74	3.19	3.11
22	2.68	2.79	3.26	3.25	3.32	3.35	3.57	3.16	3.09	2.74	3.30	3.10
23	2.66	2.78	3.27	3.26	3.34	3.31	3.53	3.16	3.07	2.78	3.41	3.08
24	2.67	2.77	3.25	3.27	3.33	3.27	3.47	3.15	3.04	2.78	3.40	3.07
25	2.68	2.77	3.29	3.28	3.30	3.25	3.42	3.15	3.03	2.78	3.33	3.06
26	2.67	2.80	3.34	3.30	3.33	3.23	3.37	3.14	3.02	2.77	3.26	3.05
27	2.66	2.83	3.38	3.30	3.31	3.21	3.34	3.13	2.99	2.83	3.22	3.05
28	2.64	2.90	3.42	3.29	3.29	3.35	3.31	3.11	2.97	3.12	3.20	3.04
29	2.65	2.95	3.38	3.25	---	3.55	3.28	3.09	2.95	3.11	3.18	3.03
30	2.72	2.96	3.32	3.26	---	3.70	3.25	3.08	2.94	3.10	3.16	3.01
31	2.72	---	3.28	3.27	---	3.76	---	3.07	---	3.06	3.16	---
MEAN	2.76	2.75	3.23	3.36	3.41	3.65	3.43	3.26	3.02	2.87	3.08	3.09
MAX	2.91	2.96	3.42	3.58	3.65	4.50	3.95	3.78	3.18	3.12	3.41	3.15
MIN	2.64	2.67	2.97	3.23	3.26	3.21	3.20	3.07	2.85	2.74	2.90	3.01

LOCATION.--Lat 31°24'30", long 93°10'15", in SE¼ sec.15, T.5 N., R.8 W., Natchitoches Parish, Hydrologic Unit 11140207, near right bank on downstream side of bridge on State Highway 117, 0.5 mi (0.8 km) south of Kisatchie, and 2.0 mi (3.2 km) upstream from mouth.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 3	1100	1150	32.6	5.82	1.774	Mar. 11	2030	1190	33.7	5.97	1.820
Mar. 3	2230	*3100	87.8	*10.69	3.258	Apr. 1	0130	1690	47.9	7.47	2.277

Minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Aug. 10-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	6.2	3.6	12	10	25	9.9	647	82	2.3	1.5	1.2	7.0		
2	5.0	3.4	10	30	18	9.9	48	74	2.2	1.4	1.2	6.0		
3	4.4	3.2	8.9	52	324	688	31	12	2.1	1.4	1.2	5.2		
4	4.0	3.0	8.3	40	63	404	22	8.9	2.0	1.8	1.2	4.6		
5	4.2	2.9	7.8	24	35	71	17	8.0	2.4	1.9	1.2	4.4		
6	3.8	2.9	227	55	24	57	13	6.8	2.2	1.8	1.3	4.4		
7	3.4	2.8	57	40	20	38	12	6.2	2.1	1.8	5.6	4.4		
8	3.4	2.6	28	26	18	28	10	5.8	2.1	1.6	1.6	4.8		
9	3.4	2.4	20	274	16	26	9.9	5.2	2.1	1.7	1.2	133		
10	3.2	2.4	17	49	15	25	9.2	4.6	2.1	1.7	1.1	22		
11	3.2	4.2	57	32	51	279	8.3	4.2	2.0	1.6	1.1	6.2		
12	3.0	6.2	182	27	107	119	7.8	4.0	2.3	1.7	1.5	4.0		
13	3.0	3.8	48	34	33	48	7.2	3.6	4.2	1.6	1.9	32		
14	3.0	5.2	32	179	22	35	7.0	3.6	4.0	1.8	4.0	13		
15	3.0	4.0	32	41	17	30	7.0	3.4	4.6	1.7	2.0	5.5		
16	3.4	3.4	24	28	15	24	7.5	3.2	7.0	1.6	1.4	3.4		
17	3.2	2.9	19	24	15	20	9.9	3.0	6.0	1.5	1.3	3.0		
18	3.0	2.8	16	22	14	19	10	2.9	3.2	1.5	3.2	2.9		
19	3.0	20	15	20	13	17	7.2	2.9	2.2	1.5	3.0	4.8		
20	3.0	19	57	17	12	17	130	2.9	2.1	1.5	1.7	4.4		
21	2.9	8.0	25	17	12	14	82	2.8	2.0	1.6	1.6	3.2		
22	2.9	5.5	19	17	11	13	25	2.6	1.9	1.4	2.8	2.8		
23	2.9	4.8	16	28	11	12	15	2.6	1.8	1.3	25	2.3		
24	3.0	4.4	14	40	11	12	11	2.3	1.8	3.8	6.5	2.3		
25	3.2	4.0	65	23	11	15	9.9	2.3	1.8	4.3	3.2	2.2		
26	3.2	15	32	17	11	12	8.6	2.3	1.6	2.0	2.6	2.1		
27	3.0	10	20	17	10	15	8.0	2.3	1.5	1.7	68	2.1		
28	2.9	70	17	15	10	293	7.5	2.2	1.6	6.3	22	2.0		
29	5.0	31	14	15	---	44	7.0	2.2	1.5	2.0	15	1.9		
30	8.9	16	12	17	---	29	6.5	2.1	1.5	1.6	15	1.9		
31	4.4	---	11	37	---	119	---	2.2	---	1.3	8.0	---		
TOTAL	114.1	269.4	1123.0	1267	944	2542.8	1201.5	273.1	76.2	59.9	207.6	297.8		
MEAN	3.68	8.98	36.2	40.9	33.7	82.0	40.1	8.81	2.54	1.93	6.70	9.93		
MAX	8.9	70	227	274	324	688	647	82	7.0	6.3	68	133		
MIN	2.9	2.4	7.8	10	10	9.9	6.5	2.1	1.5	1.3	1.1	1.9		
CFSM	.17	.42	1.69	1.91	1.57	3.83	1.87	.41	.12	.09	.31	.46		
IN.	.20	.47	1.95	2.20	1.64	4.42	2.09	.47	.13	.10	.36	.52		
AC=FT	226	534	2230	2510	1870	5040	2380	542	151	119	412	591		
CAL YR 1976	TOTAL	9389.0	MEAN	25.7	MAX	709	MIN	2.3	CFSM	1.20	IN	16.32	AC=FT	18620
WTR YR 1977	TOTAL	8376.4	MEAN	22.9	MAX	688	MIN	1.1	CFSM	1.07	IN	14.56	AC=FT	16610

RED RIVER BASIN

07354000 LITTLE SANDY CREEK AT KISATCHIE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.45	.60	.48	.71	.46	2.67	1.05	.21	.13	.10	.28
2	.51	.43	.56	.72	.61	.46	.96	1.17	.20	.12	.09	.24
3	.48	.42	.52	1.06	2.40	2.97	.75	.57	.19	.12	.09	.21
4	.46	.41	.50	.92	1.15	2.68	.64	.48	.18	.16	.08	.18
5	.47	.40	.48	.71	.83	1.12	.56	.45	.22	.17	.08	.17
6	.45	.40	1.91	1.02	.70	.96	.51	.41	.20	.16	.11	.17
7	.42	.39	1.11	.91	.64	.71	.48	.39	.19	.16	.34	.17
8	.42	.38	.77	.74	.61	.56	.45	.37	.19	.14	.14	.19
9	.42	.37	.65	2.32	.58	.53	.44	.35	.19	.15	.08	1.13
10	.41	.37	.60	1.01	.56	.52	.42	.33	.19	.15	.07	.69
11	.41	.48	1.02	.81	1.03	1.87	.39	.31	.18	.14	.07	.39
12	.40	.57	1.94	.74	1.43	1.47	.37	.30	.21	.15	.13	.30
13	.40	.46	1.01	.80	.82	.84	.35	.28	.31	.14	.17	.65
14	.40	.53	.81	1.86	.67	.66	.34	.28	.30	.16	.30	.56
15	.40	.47	.81	.91	.60	.60	.34	.27	.33	.15	.18	.36
16	.42	.43	.70	.76	.57	.50	.36	.26	.42	.14	.12	.27
17	.41	.40	.63	.69	.56	.45	.44	.25	.38	.13	.11	.25
18	.40	.39	.59	.66	.54	.43	.45	.24	.26	.13	.26	.24
19	.40	.73	.57	.64	.53	.41	.35	.24	.20	.13	.25	.34
20	.40	.79	1.07	.61	.51	.40	1.27	.24	.19	.13	.15	.32
21	.39	.57	.72	.60	.50	.35	1.20	.23	.18	.14	.14	.26
22	.39	.47	.64	.59	.49	.34	.68	.22	.17	.12	.23	.23
23	.39	.44	.59	.74	.49	.31	.54	.22	.16	.11	.53	.20
24	.40	.42	.55	.90	.48	.32	.46	.21	.16	.23	.39	.20
25	.41	.40	1.12	.68	.48	.37	.44	.21	.16	.30	.26	.19
26	.41	.64	.82	.61	.48	.32	.40	.21	.14	.18	.22	.18
27	.40	.62	.65	.59	.47	.38	.38	.21	.13	.15	.91	.18
28	.39	1.25	.60	.57	.47	2.36	.36	.20	.14	.37	.59	.17
29	.51	.88	.55	.56	---	.78	.34	.20	.13	.18	.47	.16
30	.67	.67	.52	.61	---	.58	.32	.19	.13	.14	.49	.16
31	.49	---	.50	.86	---	.98	---	.20	---	.11	.32	---
MEAN	.44	.52	.78	.83	.71	.83	.59	.34	.21	.16	.24	.30
MAX	.67	1.25	1.94	2.32	2.40	2.97	2.67	1.17	.42	.37	.91	1.13
MIN	.39	.37	.48	.48	.47	.31	.32	.19	.13	.11	.07	.16

07354950 RED RIVER AT COLFAX, LA (CE 04450)

LOCATION.--Lat 31°30'58", long 92°43'13", lot 38, T.6 N., R.3 W., Grant Parish, Hydrologic Unit 11140207, at mouth of Cane River, 0.3 mi (0.5 km) west of Colfax, and at mile 140.5 (226.1 km).

DRAINAGE AREA.--66,860 mi² (173,167 km²), of which 5,936 mi² (15,374 km²) above Denison Dam is noncontributing.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1975 to current year.

CHLORIDE: October 1974 to current year.

SUSPENDED-SEDIMENT CONCENTRATION: December 1975 to current year.

REMARKS.--Samples collected by Corps of Engineers and analyzed by Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 31.0°C July 5-9, 1977; minimum daily, 2.0°C Jan. 21, 1977.

CHLORIDE: Maximum daily, 360 mg/L June 7-9, 1977; minimum daily, 14 mg/L May 13, 1975, Apr. 6, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 31.0°C July 5-9; minimum daily 2.0°C Jan. 21.

CHLORIDE: Maximum daily, 360 mg/L June 7-9; minimum daily, 14 mg/L Apr. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.5	14.0	6.5	6.5	3.0	13.0	18.5	20.5	27.0	30.0	30.0	29.0
2	21.5	14.0	6.5	6.0	3.5	13.0	18.0	24.5	27.0	30.0	30.5	28.5
3	21.5	13.5	7.0	5.0	4.0	13.0	18.5	21.5	27.0	30.0	24.5	28.5
4	24.5	13.0	7.0	4.5	4.5	18.5	18.0	24.0	26.0	30.5	30.0	28.5
5	21.0	13.0	7.0	4.5	4.5	13.5	17.0	24.0	28.0	31.0	30.0	28.5
6	20.5	13.0	7.0	---	5.0	13.0	17.0	24.0	28.5	31.0	30.5	28.0
7	20.0	13.0	7.0	6.0	5.5	13.0	16.0	24.0	28.5	31.0	30.5	27.0
8	20.0	13.5	7.0	6.0	5.0	13.0	16.0	24.0	28.5	31.0	30.5	27.0
9	20.0	14.5	7.0	6.0	5.0	13.0	17.0	24.0	26.5	31.0	30.0	27.0
10	20.0	14.5	7.0	5.0	5.5	13.0	18.0	24.0	27.0	---	30.0	27.0
11	20.0	14.0	7.0	4.5	8.0	13.0	20.0	24.0	27.0	---	30.0	28.5
12	20.0	13.0	8.0	4.5	9.0	13.0	20.0	23.5	27.0	29.5	30.0	28.5
13	20.0	12.0	7.0	4.5	9.5	14.5	20.5	23.5	27.0	29.0	29.5	27.0
14	20.0	12.0	8.5	4.0	9.0	15.5	20.0	24.0	27.0	29.0	30.5	26.0
15	19.5	9.0	8.5	4.0	9.5	15.5	20.5	24.0	27.0	29.5	30.0	26.0
16	18.5	9.0	8.5	4.0	9.5	16.0	21.0	24.0	27.0	30.0	29.5	26.0
17	18.5	9.0	8.5	4.0	5.0	16.5	21.0	24.5	25.5	30.0	29.5	26.0
18	17.5	9.5	8.5	4.0	5.0	16.5	20.5	24.5	26.5	29.5	29.0	27.0
19	16.5	9.5	9.0	3.0	5.0	16.5	21.0	24.5	27.0	29.5	28.5	27.0
20	---	9.5	8.5	3.0	5.0	16.5	21.0	25.0	27.0	30.0	28.5	25.5
21	15.5	10.0	8.5	2.0	5.0	16.5	21.0	25.0	28.5	30.0	27.0	25.5
22	16.0	10.0	8.5	3.0	5.0	16.5	20.0	25.5	29.0	30.0	27.0	25.0
23	15.5	10.0	8.5	3.0	5.0	16.0	20.0	25.5	29.0	30.5	27.0	25.0
24	15.5	10.0	8.5	3.5	5.5	16.0	20.0	25.5	29.5	30.5	27.0	28.5
25	15.5	10.0	9.0	3.5	5.5	15.5	20.0	26.0	29.5	30.5	27.0	28.5
26	15.5	10.0	9.0	3.5	5.5	15.5	20.5	26.0	29.5	30.0	27.0	29.5
27	15.0	8.5	9.0	4.0	5.5	15.5	20.5	26.0	29.0	30.0	27.0	29.5
28	14.5	8.5	---	3.5	5.5	16.5	21.0	26.0	29.0	30.5	28.0	27.0
29	14.5	8.5	---	4.0	---	17.0	21.0	26.5	29.0	30.5	29.0	28.0
30	13.5	8.5	9.0	3.5	---	18.0	21.0	26.5	29.0	---	29.0	28.0
31	---	---	8.5	3.0	---	18.5	---	26.5	---	---	29.0	---

RED RIVER BASIN

07354950 RED RIVER AT COLFAX, LA (CE 04450)--Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	120	190	96	76	24	21	34	250	220	210	220
2	200	150	140	88	50	40	66	37	290	260	210	200
3	190	170	120	110	63	45	21	36	340	210	210	240
4	190	150	120	110	45	46	16	34	340	240	200	190
5	170	160	170	140	41	33	25	39	340	260	200	260
6	170	160	160	110	59	51	14	36	350	260	220	220
7	150	160	160	120	54	27	23	32	360	240	240	140
8	150	130	110	130	140	34	21	32	360	250	---	120
9	150	140	110	120	68	23	21	41	360	220	200	120
10	99	120	110	100	61	23	16	64	350	260	200	100
11	180	110	120	150	50	22	21	65	350	220	220	190
12	190	84	100	130	47	22	21	70	340	180	180	250
13	180	96	170	98	45	24	17	65	330	160	200	240
14	150	96	160	150	42	27	19	74	330	150	140	120
15	150	93	140	110	28	28	20	67	340	160	150	110
16	130	82	110	100	58	30	36	79	340	170	150	110
17	210	85	110	85	34	21	30	58	320	170	140	110
18	120	86	96	90	32	37	42	130	300	180	120	130
19	110	67	68	150	25	20	20	92	320	180	190	110
20	120	62	62	88	32	22	28	60	310	180	130	120
21	110	61	69	95	28	35	28	100	300	150	150	180
22	100	92	94	110	35	31	39	120	300	180	180	130
23	100	81	77	86	46	38	38	110	300	190	210	130
24	56	95	73	130	24	37	65	120	280	200	210	120
25	58	88	90	87	30	21	56	59	290	230	210	140
26	46	200	87	60	18	38	30	91	290	220	240	190
27	47	190	78	60	32	45	22	140	280	220	260	240
28	49	190	---	46	52	28	44	150	250	230	210	190
29	46	200	---	46	---	23	36	180	250	180	230	160
30	66	130	76	41	---	33	44	250	250	---	230	240
31	110	---	63	36	---	26	---	260	---	---	210	---

SUSPENDED-SEDIMENT CONCENTRATION (MG/L), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	188	93	212		197	1510	487	679	62	152	252
2	129	190	174	157		808	2480	518	681	97	143	124
3	90	214	154	201		259	2950	413	715	77	156	161
4	113	174	155	269		287	1430	484	682	95	131	159
5	128	139	101	202		364	1390	357	642	98	135	172
6	125	187	116	220		392	999	336	626	137	115	132
7	151	200	93	143		262	---	438	763	106	130	142
8	117	163	175	194		492	1100	323	736	94	57	110
9	118	137	152	230		595	493	282	641	68	130	105
10	132	150	119	165		458	569	226	606	68	170	172
11	217	108	166	266		360	664	225	572	96	106	252
12	204	103	156	228		319	643	188	553	101	88	336
13	226	122	217	152		246	603	201	601	40	105	342
14	222	114	204	186		242	627	301	460	31	191	277
15	254	86	171	236		225	641	322	315	127	94	213
16	169	116	389	270		136	647	192	397	66	74	145
17	151	282	448	357		248	---	184	522	84	73	120
18	200	164	458	329		232	---	237	416	47	93	128
19	169	151	289	282		208	---	263	334	55	96	141
20	207	157	251	283		198	---	510	279	81	174	114
21	142	89	235	274		158	---	265	211	42	190	128
22	156	114	216	340		143	---	177	221	97	155	117
23	223	133	408	358		126	---	210	156	61	122	101
24	117	140	310	282		193	---	135	152	55	126	168
25	133	2060	228	302		4940	---	255	196	75	151	133
26	123	1550	210	207		890	---	133	121	119	137	142
27	106	102	253	183		349	---	345	137	89	122	164
28	118	137	---	258		268	---	194	59	63	151	141
29	124	122	---	188		288	---	369	70	1920	179	271
30	176	101	219	216		209	---	567	51	---	104	156
31	153	---	186	181		696	---	571	---	---	136	---

07355130 RED RIVER AT BOYCE, LA

LOCATION.--Lat 31°27'37", long 92°40'04", 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 (0.3 km) northwest of Boyce, at mile 135.0 (217.2 km).

DRAINAGE AREA.--66,998 mi² (173,525 km²), of which 5,936 mi² (15,374 km²) above Denison Dam is noncontributing.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. / 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 28...	1140	389	7.2	13.5	70	45	9.9	19	3.1	77000	940	--
NOV 15...	1345	629	7.8	10.0	40	35	9.7	19	3.3	812000	82000	--
DEC 21...	1800	404	7.8	9.0	60	75	11.8	19	2.7	13000	1800	--
JAN 13...	1615	687	7.5	5.5	50	40	12.3	16	6.8	88400	1200	81500
FEB 10...	1400	375	7.4	8.0	30	70	11.2	30	--	43000	1400	--
MAR 21...	1330	194	7.3	20.0	80	75	8.6	53	2.6	18000	900	--
APR 21...	0800	244	6.7	21.0	100	70	7.6	48	1.7	812000	1000	--
MAY 17...	1230	447	7.5	25.0	20	50	7.6	30	2.8	1200	180	--
JUN 09...	0900	1860	8.1	26.5	5	60	7.5	36	.8	37000	86600	--
JUL 18...	1200	990	8.8	31.0	15	15	8.4	35	5.8	<5	<5	--
AUG 16...	1330	898	8.0	31.5	7	10	8.5	34	5.3	--	--	--
SEP 06...	1530	1270	7.9	29.0	25	15	8.5	31	5.6	810	--	--

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	SUSPENDED SOLIDS (MG/L)	SETTLABLE MATTER (ML/L/HR)
OCT 28...	120	14	34	8.0	129	0	106	13	23	39	129	<1.0
NOV 15...	170	45	46	13	152	0	125	3.9	57	88	72	--
DEC 21...	110	44	28	9.7	80	0	66	2.0	45	95	268	--
JAN 13...	160	78	42	13	100	0	82	5.1	77	110	118	<1.0
FEB 10...	90	31	25	6.6	72	0	59	4.6	39	52	156	<1.0
MAR 21...	59	11	18	3.4	59	0	48	4.7	15	19	93	<1.0
APR 21...	79	29	25	3.9	60	0	49	19	21	26	767	<1.0
MAY 17...	120	30	34	8.0	107	0	88	5.4	45	58	108	<1.0
JUN 09...	380	250	99	32	156	0	130	2.0	240	370	564	<1.0
JUL 18...	250	68	66	21	181	21	180	.6	97	160	47	--
AUG 16...	230	58	61	19	210	0	170	3.4	86	130	18	<1.0
SEP 06...	270	130	71	22	167	0	140	3.4	150	230	48	--

07355130 RED RIVER AT BOYCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)
OCT 28...	.07	.01	.08	.54	.12	14	3	1	--	--	0	0
NOV 15...	--	--	--	.57	.17	0	3	2	--	--	0	0
DEC 21...	.13	.03	.16	--	.21	2	2	1	--	--	0	0
JAN 13...	.12	.01	.13	.98	.11	0	2	1	--	--	1	1
FEB 10...	.17	.02	.19	.92	.16	1	1	1	--	--	0	0
MAR 21...	.11	.02	.13	.90	.13	0	2	1	0	0	0	0
APR 21...	.12	.05	.17	.60	.47	1	6	1	0	0	0	0
MAY 17...	.05	.01	.06	.44	.13	0	2	1	0	0	0	0
JUN 09...	.23	.00	.23	.63	.25	0	3	2	0	0	0	0
JUL 18...	.08	.00	.08	.42	.05	--	2	0	0	0	0	0
AUG 16...	.00	.01	.01	.58	.12	0	3	2	0	0	0	0
SEP 06...	.00	.01	.01	.10	.08	0	1	1	0	0	10	1

DATE	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)
OCT 28...	<10	0	4	3	30	5	0	.0	.0	6	3	--
NOV 15...	20	0	5	5	70	8	0	.1	.1	2	0	--
DEC 21...	10	0	7	3	50	17	0	.0	.0	21	2	--
JAN 13...	20	0	10	6	40	18	2	.1	.1	3	2	--
FEB 10...	30	0	7	7	100	16	3	.0	.0	6	3	--
MAR 21...	<10	0	9	7	100	7	0	.0	.0	13	0	0
APR 21...	20	0	12	6	100	34	6	.0	.0	16	2	0
MAY 17...	10	0	6	4	170	9	1	.0	.0	13	2	0
JUN 09...	20	0	14	11	20	25	25	.0	.0	23	0	0
JUL 18...	<10	0	17	17	30	7	7	.0	.0	5	3	0
AUG 16...	20	0	10	2	50	7	7	.0	.0	4	4	0
SEP 06...	0	0	40	4	40	<100	2	.2	.0	<50	2	0

07355130 RED RIVER AT BOYCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)
OCT 28...	--	30	10	7.1	.00	3	.0	0	.00	.0	.00	.0
NOV 15...	--	30	10	8.4	.00	0	.0	--	.00	--	.00	--
DEC 21...	--	40	10	14	.00	1	.0	--	.00	--	.00	--
JAN 13...	--	20	10	6.0	.00	2	.0	0	.00	.0	.00	.0
FEB 10...	--	10	0	11	.00	0	.0	--	.00	--	.00	--
MAR 21...	0	30	0	8.0	.00	0	.0	--	.00	--	.00	--
APR 21...	0	30	20	6.2	.00	2	.0	0	.00	.0	.00	.0
MAY 17...	0	30	30	12	.00	0	.0	--	.00	--	.00	--
JUN 09...	0	60	10	5.6	.00	0	.0	--	.00	--	.000	--
JUL 18...	0	20	20	6.2	.00	0	.0	0	.00	.0	.000	.0
AUG 16...	0	10	10	6.3	.00	2	.0	--	.00	--	.000	--
SEP 06...	0	20	20	5.3	.00	3	.0	--	.00	--	.000	--

DATE	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)
OCT 28...	.0	0	.00	.0	.00	.0	.00	.0	.01	.0	.00	.0
NOV 15...	.0	--	.00	--	.00	--	.00	--	.01	--	.00	--
DEC 21...	.0	--	.00	--	.00	--	.00	--	.00	--	.00	--
JAN 13...	.0	0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
FEB 10...	.0	--	.00	--	.00	--	.00	--	.00	--	.00	--
MAR 21...	.0	--	.00	--	.00	--	.00	--	.02	--	.00	--
APR 21...	.0	0	.00	.5	.00	1.3	.00	.6	.00	.0	.00	.0
MAY 17...	.0	--	.00	--	.00	--	.00	--	.00	--	.00	--
JUN 09...	.0	--	.000	--	.003	--	.000	--	.00	--	.000	--
JUL 18...	.0	0	.000	.6	.000	1.5	.000	.6	.00	.0	.000	.0
AUG 16...	.0	--	.000	--	.000	--	.000	--	.01	--	.002	--
SEP 06...	.0	--	.000	--	.001	--	.000	--	.00	--	.000	--

RED RIVER BASIN

07355130 RED RIVER AT BOYCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ENDO- SULFAN (UG/L)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
OCT 28...	--	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
NOV 15...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
DEC 21...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
JAN 13...	--	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
FEB 10...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
MAR 21...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
APR 21...	--	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
MAY 17...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
JUN 09...	.000	.000	--	.00	--	.000	--	.000	--	.000	--	.00
JUL 18...	.000	.000	.0	.00	.0	.000	.0	.000	.0	.000	.0	.00
AUG 16...	.000	.000	--	.00	--	.000	--	.000	--	.000	--	.00
SEP 06...	.000	.000	--	.00	--	.000	--	.000	--	.000	--	.00

DATE	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)
OCT 28...	.0	--	.00	.0	.00	.0	--	.0	.00	.0	0	0
NOV 15...	--	--	.00	--	.00	--	--	--	.00	--	0	--
DEC 21...	--	--	.00	--	.00	--	--	--	.00	--	0	--
JAN 13...	.0	--	.00	.0	.00	.0	--	.0	.00	.0	0	0
FEB 10...	--	--	.00	--	.00	--	--	--	.00	--	0	--
MAR 21...	--	--	.00	--	.00	--	--	--	.00	--	0	--
APR 21...	.0	--	.00	.0	.00	.0	.00	.0	.00	.0	0	0
MAY 17...	--	--	.00	--	.00	--	.00	--	.00	--	0	--
JUN 09...	--	.00	.00	--	.00	--	.00	--	.00	--	.0	--
JUL 18...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0	.0	0
AUG 16...	--	.00	.00	--	.00	--	.00	--	.00	--	.0	--
SEP 06...	--	.00	.00	--	.00	--	.00	--	.00	--	.0	--

07355130 RED RIVER AT BOYCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT					
28...	.00	.0	.00	.00	.00
NOV					
15...	.00	--	.00	.00	.00
DEC					
21...	.00	--	.00	.00	.00
JAN					
13...	.00	.0	.00	.00	.00
FEB					
10...	.00	--	.00	.00	.00
MAR					
21...	.00	--	.00	.00	.00
APR					
21...	.00	.0	.02	.00	.00
MAY					
17...	.00	--	.00	.00	.00
JUN					
09...	.00	--	.00	.00	.00
JUL					
18...	.00	.0	.02	.05	.00
AUG					
16...	.00	--	.02	.12	.00
SEP					
06...	.00	--	.00	.02	.00

RED RIVER BASIN

07355300 IATT LAKE NEAR COLFAX, LA

LOCATION.--Lat 31°32'57", long 92°39'15", in SE¼ sec.27, T.7 N., R.3 W., Grant Parish, Hydrologic Unit 11140207, at dam 2.5 mi (4.0 km) upstream from Sugarhouse bayou, and 3.6 mi (5.8 km) northeast of Colfax.

DRAINAGE AREA.--238 mi² (616 km²).

PERIOD OF RECORD.--March 1975 to September 1977 (discontinued), gage heights only. Unpublished discharge measurements for water years 1957-58, 1961, and gage heights for water years 1958-59 available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is 77.65 ft (23.668 m) above mean sea level (Louisiana Department of Transportation and Development, Office of Public Works bench mark).

REMARKS.--Reservoir is formed on Iatt Creek by earthfill dam, completed in 1956. Storage began Dec. 3, 1956. The dam contains a 250-ft (76.2 m) concrete spillway. The crest of the dam is 5.35 ft (1.631 m) gage height. Drawdown structure consist of a box culvert with two 5- by 7-ft (1.5- by 2.1-m) metal gates that can be varied from -6.65 to -1.65-ft (-2.027 to -0.503 m) gage height. Water-surface area, 6,600 acres (26.7 km²). Reservoir is used for recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.49 ft (3.502 m) May 9, 1975; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.01 ft (2.441 m) Mar. 13, 14; minimum, not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.96	2.61	---	---	---	3.68	6.10	5.33	5.03	4.92	5.11	5.27
2	4.95	2.47	---	---	---	3.69	6.33	6.18	5.01	4.92	5.10	5.24
3	4.95	2.32	---	---	---	3.74	6.41	6.55	4.99	4.90	5.08	5.21
4	4.94	1.98	---	---	---	5.18	6.30	6.58	4.98	4.91	5.07	5.19
5	4.93	1.80	---	---	1.30	6.42	6.13	6.42	5.00	4.89	5.04	5.18
6	4.95	1.61	---	---	1.85	6.81	5.96	6.19	4.98	4.98	5.04	5.15
7	4.93	1.41	---	---	2.25	6.90	5.83	5.98	4.99	4.98	5.03	5.15
8	4.91	1.26	---	---	2.42	6.80	5.72	5.82	4.94	4.97	5.01	5.18
9	4.89	---	---	---	2.49	6.59	5.63	5.70	4.92	4.95	5.00	5.19
10	4.88	---	---	---	2.54	6.35	5.56	5.61	4.90	4.94	4.98	5.37
11	4.88	---	---	---	2.64	6.12	5.49	5.52	4.89	5.01	4.97	5.34
12	4.87	---	---	---	2.75	7.03	5.43	5.45	4.87	5.00	5.01	5.31
13	4.87	---	---	---	2.93	7.88	5.40	5.39	4.89	5.00	5.01	5.27
14	4.86	---	---	---	3.15	8.01	5.36	5.35	4.94	5.05	5.04	5.26
15	4.86	---	---	1.24	3.34	7.89	5.32	5.31	5.01	5.04	5.03	5.24
16	4.78	---	---	1.39	3.38	7.68	5.31	5.28	5.07	5.04	5.02	5.22
17	4.71	---	---	1.51	3.42	7.37	5.36	5.25	5.09	5.02	5.01	5.20
18	4.60	---	---	1.60	3.45	7.10	5.37	5.22	5.10	5.00	5.04	5.18
19	4.40	---	---	1.48	3.50	6.83	5.40	5.21	5.10	4.99	5.13	5.16
20	4.26	---	---	1.36	3.52	6.59	5.42	5.19	5.09	4.98	5.14	5.20
21	4.10	---	---	1.23	3.54	6.33	5.70	5.16	5.08	4.97	5.13	5.18
22	3.88	---	---	---	3.55	6.11	5.89	5.15	5.06	4.97	5.20	5.17
23	3.74	---	---	---	3.55	5.90	5.95	5.14	5.05	4.96	5.23	5.15
24	3.61	---	---	---	3.61	5.76	5.88	5.12	5.04	4.95	5.22	5.13
25	3.47	---	---	---	3.62	5.67	5.76	5.12	5.01	4.94	5.21	5.12
26	3.33	---	---	---	3.61	5.59	5.65	5.11	4.99	4.93	5.18	5.11
27	3.19	---	---	---	3.67	5.50	5.57	5.09	4.98	4.94	5.17	5.10
28	3.04	---	---	---	3.68	5.62	5.50	5.07	4.97	5.09	5.26	5.09
29	2.89	---	---	---	---	5.70	5.44	5.06	4.96	5.10	5.33	5.08
30	2.87	---	---	---	---	5.74	5.39	5.05	4.94	5.14	5.31	5.07
31	2.76	---	---	---	---	5.72	---	5.03	---	5.13	5.29	---
MEAN	4.30	---	---	---	---	6.20	5.69	5.47	5.00	4.99	5.11	5.19
MAX	4.96	2.61	---	1.60	3.68	8.01	6.41	6.58	5.10	5.14	5.33	5.37
MIN	2.76	---	---	---	---	3.68	5.31	5.03	4.87	4.89	4.97	5.07

NOTE.--Gage height was below 1.23 ft (lowest recordable stage) Nov. 9 to Jan. 14, Jan. 22 to Feb. 4.

07355300 IATT LAKE NEAR COLFAX, LA--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected 600 ft (183 m) upstream from dam.

PERIOD OF RECORD.--Water years 1958, 1969, 1977 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA+MG) (MG/L)
NOV 15...	1520	60	6.6	8.5	30	30	9.1	3.6	1100	--	--	13
JAN 13...	1515	72	6.4	5.0	20	4	11.0	2.8	<5	8	--	16
APR 20...	1630	55	6.5	21.0	70	8	6.4	1.6	68	--	<5	15
JUL 18...	1500	61	7.9	33.5	25	6	8.0	2.0	<5	--	890	18

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV 15...	2	3.1	1.3	5.0	42	.6	1.5	13	0	11	5.2	6.7
JAN 13...	9	3.9	1.5	5.6	40	.6	1.9	8	0	7	5.1	11
APR 20...	2	4.4	1.0	3.8	33	.4	1.3	16	0	13	8.1	6.1
JUL 18...	2	4.7	1.6	4.9	35	.5	.9	20	0	16	.4	4.4

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS PER AC-FT	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 15...	6.7	.0	5.2	42	36	.06	.04	.62	.66	2.9	.05
JAN 13...	7.5	.6	7.9	--	44	.06	.02	--	--	--	.01
APR 20...	5.0	.0	6.2	42	36	.06	--	--	--	--	--
JUL 18...	5.9	.0	2.9	58	35	.08	.03	--	--	--	.04

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
NOV 15...	1	5	0	<10	<10	0	7	<10	50	6200	0	<10

DATE	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)
NOV 15...	100	160	.1	.0	10	20	6.6	.00	0	.0	0	.00

07355300 IATT LAKE NEAR COLFAX, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
NOV 15...	.0	.00	.0	.0	0	.00	12	.00	17	.00	.0	.00

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
NOV 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
NOV 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 15...	0	.00	.0	.00	.00	.00

07355500 RED RIVER AT ALEXANDRIA, LA

LOCATION.--Lat 31°18'46", long 92°26'34", in SE¼ sec.10, T.4 N., R.1 W., Rapides Parish, Hydrologic Unit 08040301, near center of span on downstream side of Murray Street bridge between Alexandria and Pineville, and 1.7 mi (2.7 km) downstream from Bayou Rigolette. Water-quality sampling site at center of channel 0.3 mi (0.5 m) downstream.

DRAINAGE AREA.--67,500 mi² (174,800 km²), of which 5,936 mi² (15,374 km²) above Denison Dam is noncontributing.

PERIOD OF RECORD.--October 1928 to September 1976. Since January 1928, in reports of Mississippi River Commission. Discharge observations in 1858 and intermittently 1879 to 1927, and gage heights since 1872 in reports of Mississippi River Commission.

REVISED RECORDS.--WSP 1211: Drainage area. WSP 1241: 1929-36.

GAGE.--Wire-weight gage read twice daily. Datum of gage is 44.26 ft (13.490 m) above mean sea level or 44.18 ft (13.466 m) above mean Gulf level, datum of Mississippi River Commission (levels of Corps of Engineers). Prior to July 14, 1934, nonrecording gage at same site and datum.

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

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

AVERAGE DISCHARGE.--47 years (1928-75) 31,870 ft³/s (903 m³/s), 23,090,000 acre-ft/yr (28.47 km³/yr).

48 years (1928-76) 31,560 ft³/s (893.8 m³/s), 22,870,000 acre-ft/yr (28.2 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 233,000 ft³/s (6,600 m³/s) Apr. 17, 1945, gage height, 45.23 ft (13.768 m); minimum, 873 ft³/s (24.7 m³/s) Oct. 30, 1956, gage height, -3.01 ft (-0.917 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 210,000 ft³/s (5,950 m³/s) was measured July 2, 1908, gage height, 41.6 ft (12.68 m).

EXTREMES FOR CURRENT YEAR.--Water year 1975 (revised): Maximum daily discharge, 129,000 ft³/s (3,650 m³/s) Feb. 12; minimum daily, 7,300 ft³/s (207 m³/s).

Water year 1976: Maximum daily discharge, 68,000 ft³/s (1,930 m³/s) Mar. 17; minimum daily, 4,900 m³/s (139 m³/s) Nov. 26, Aug. 14.

REVISIONS.--Revised figures of discharge for the water year 1975, superseding those published in the report for 1975, are given herein.

RECORDS FOR THE 1977 WATER YEAR ARE NOT AVAILABLE IN TIME FOR INCLUSION IN THIS REPORT. THEY WILL BE PUBLISHED IN A SUBSEQUENT REPORT.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93000	24000	100000	54000	24000	63000	78000	36000	72000	42000	13000	12000
2	95000	28000	100000	53000	28000	67000	83000	38000	77000	42000	15000	11000
3	95000	39000	100000	53000	40000	68000	87000	48000	81000	45000	17000	11000
4	92000	59000	101000	58000	64000	73000	91000	69000	80000	48000	18000	10000
5	87000	80000	102000	59000	94000	76000	94000	85000	76000	45000	22000	10000
6	81000	91000	104000	59000	102000	75000	91000	106000	73000	44000	30000	12000
7	72000	97000	101000	62000	111000	70000	91000	113000	71000	40000	34000	13000
8	66000	100000	100000	63000	115000	68000	91000	122000	70000	35000	35000	13000
9	59000	105000	101000	65000	118000	60000	83000	126000	75000	34000	35000	13000
10	53000	111000	102000	71000	121000	55000	80000	126000	83000	33000	34000	12000
11	48000	118000	104000	73000	126000	50000	76000	123000	98000	34000	31000	12000
12	44000	120000	103000	74000	129000	49000	74000	121000	98000	34000	28000	11000
13	42000	121000	100000	73000	129000	57000	75000	119000	100000	34000	25000	11000
14	39000	122000	99000	68000	124000	73000	78000	111000	104000	32000	22000	11000
15	37000	121000	98000	65000	121000	81000	79000	105000	110000	28000	20000	11000
16	35000	119000	98000	65000	124000	84000	81000	97000	113000	27000	18000	11000
17	33000	110000	97000	63000	123000	86000	74000	97000	108000	25000	17000	11000
18	31000	114000	92000	62000	118000	95000	72000	96000	102000	22000	16000	9900
19	29000	116000	85000	62000	109000	98000	62000	94000	97000	21000	15000	8900
20	27000	116000	78000	59000	101000	103000	54000	93000	96000	18000	15000	8500
21	25000	114000	71000	57000	92000	104000	50000	87000	96000	16000	14000	8300
22	24000	111000	66000	52000	83000	103000	45000	82000	95000	14000	14000	9300
23	23000	103000	61000	47000	77000	100000	42000	79000	91000	13000	14000	7600
24	21000	98000	61000	42000	70000	100000	40000	75000	83000	13000	15000	7300
25	20000	96000	58000	39000	64000	94000	39000	73000	74000	13000	15000	7400
26	18000	96000	56000	36000	59000	87000	38000	65000	66000	13000	14000	9000
27	17000	100000	57000	34000	56000	82000	37000	61000	60000	13000	14000	10000
28	17000	104000	58000	31000	57000	78000	36000	53000	54000	12000	14000	11000
29	17000	105000	57000	29000	---	75000	33000	53000	49000	12000	13000	11000
30	17000	103000	57000	27000	---	72000	35000	51000	45000	12000	13000	10000
31	19000	---	56000	25000	---	72000	---	54000	---	12000	12000	---
TOTAL	1376000	2941000	2623000	1680000	2579000	2418000	1989000	2658000	2499000	826000	612000	313200
MEAN	44390	98030	84610	54190	92110	78000	66300	85740	83300	26650	19740	10440
MAX	95000	122000	104000	74000	129000	104000	94000	126000	113000	48000	35000	13000
MIN	17000	24000	56000	25000	24000	49000	33000	36000	45000	12000	12000	7300
AC-FT	2729000	5833000	5203000	3332000	5115000	4796000	3945000	5272000	4957000	1638000	1214000	621200
CAL YR 1974	TOTAL	18921700	MEAN	51840	MAX	122000	MIN	5300	AC-FT	37530000		
WTR YR 1975	TOTAL	22514200	MEAN	61680	MAX	129000	MIN	7300	AC-FT	44660000		

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9900	9000	7600	11000	12000	14000	30000	45000	31000	26000	13000	6400
2	9300	9200	9200	11000	11000	13000	28000	43000	38000	27000	13000	6300
3	9100	9500	10000	12000	11000	13000	27000	41000	39000	28000	14000	5600
4	8800	9700	9800	14000	11000	12000	25000	37000	36000	30000	14000	5000
5	8500	9700	9300	16000	11000	11000	24000	33000	33000	31000	14000	5000
6	8400	9800	8900	17000	11000	11000	22000	28000	31000	32000	13000	5600
7	8000	9900	8500	18000	11000	12000	21000	26000	29000	33000	12000	6400
8	7200	9600	8200	18000	11000	13000	21000	23000	27000	32000	12000	6800
9	6300	9400	7800	17000	11000	17000	20000	22000	26000	30000	12000	6900
10	6300	8300	7700	16000	10000	22000	19000	23000	24000	31000	12000	6400
11	6500	7500	8200	16000	9800	32000	18000	29000	23000	31000	11000	5900
12	7000	7100	9000	14000	10000	46000	16000	36000	22000	30000	11000	5300
13	7300	6800	9500	14000	8700	55000	14000	41000	20000	26000	10000	5000
14	8600	6500	9400	13000	8200	59000	13000	42000	19000	23000	9700	4900
15	7700	6200	8600	12000	8100	62000	12000	39000	18000	21000	9200	5100
16	9800	6000	8000	11000	7900	67000	11000	35000	17000	20000	8900	5700
17	9600	6000	7400	11000	7700	68000	11000	34000	17000	23000	9000	6000
18	9100	5900	7300	11000	8000	66000	11000	32000	17000	27000	9200	6000
19	8400	5800	7300	11000	9500	60000	11000	32000	18000	27000	9300	6000
20	8000	6100	7300	11000	11000	55000	10000	34000	22000	26000	8900	6200
21	7700	5600	7400	10000	12000	50000	9600	34000	24000	26000	8600	6600
22	7600	5400	7700	8700	15000	44000	9100	33000	25000	25000	8100	6900
23	7300	5300	8000	7900	17000	39000	8700	31000	27000	23000	7100	7000
24	6700	5200	8200	7500	19000	35000	9000	29000	30000	22000	6300	7100
25	8200	5100	8800	7400	19000	33000	20000	26000	31000	22000	5800	7500
26	14000	4900	8900	8500	17000	32000	35000	24000	31000	22000	5700	8000
27	16000	5500	8900	9900	15000	32000	45000	22000	31000	20000	5500	8300
28	15000	6300	9800	11000	14000	32000	48000	20000	30000	17000	5400	8500
29	13000	5400	11000	12000	14000	31000	47000	19000	27000	15000	5700	8500
30	12000	6600	12000	12000	---	30000	46000	19000	25000	14000	5800	8200
31	10000	---	12000	12000	---	31000	---	21000	---	14000	5800	---
TOTAL	281300	213300	271700	380900	340900	1097000	641400	953000	788000	774000	295000	193100
MEAN	9074	7110	8765	12290	11760	35390	21380	30740	26270	24970	9516	6437
MAX	16000	9900	12000	18000	19000	68000	48000	45000	39000	33000	14000	8500
MIN	6300	4900	7300	7400	7700	11000	8700	19000	17000	14000	5400	4900
AC-FT	558000	423100	538900	755500	676200	2176000	1272000	1890000	1563000	1535000	585100	383000
CAL YR 1975	TOTAL	16340500	MEAN	44770	MAX	129000	MIN	4900	AC-FT	32410000		
WTR YR 1976	TOTAL	6229600	MEAN	17020	MAX	68000	MIN	4900	AC-FT	12360000		

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.92	2.55	.85	3.24	4.39	5.54	12.81	15.98	9.70	10.15	5.85	.89
2	2.56	2.30	1.90	3.21	4.24	5.52	12.27	15.50	13.00	10.72	5.50	.89
3	2.22	2.45	2.66	3.44	4.24	5.13	11.40	14.85	13.84	10.75	5.54	.49
4	2.14	2.72	2.94	4.70	4.11	4.64	10.65	13.80	13.23	11.38	5.24	.04
5	2.01	2.77	2.74	5.69	3.86	4.25	10.02	12.50	12.24	11.55	4.99	.02
6	1.90	2.92	2.36	6.10	3.56	4.19	9.44	11.00	11.55	12.15	4.59	.14
7	1.75	3.02	2.02	6.40	3.56	4.48	8.90	9.55	11.25	12.70	4.29	.69
8	1.45	3.04	1.74	6.35	3.81	5.01	8.46	8.95	10.78	12.40	4.24	1.04
9	.95	2.93	1.39	6.25	3.87	6.65	8.13	8.60	10.25	11.70	4.17	1.20
10	.60	2.51	1.12	6.06	3.74	8.45	7.93	8.11	10.07	11.52	3.89	1.04
11	.65	1.95	1.09	5.77	3.45	11.80	7.49	9.74	9.65	11.53	3.49	.74
12	.82	1.47	1.43	5.43	3.05	15.96	6.73	11.83	9.00	11.20	3.24	.38
13	1.12	1.26	1.85	5.09	2.65	18.30	5.76	13.70	8.54	10.15	3.01	.14
14	1.29	1.05	2.10	4.77	2.38	19.18	5.04	14.50	7.95	8.90	2.79	-.01
15	1.32	.75	1.95	4.42	2.18	19.46	4.52	13.95	7.40	7.95	2.49	.04
16	1.81	.55	1.57	3.94	2.00	20.19	4.06	13.10	7.20	7.36	2.24	.39
17	2.65	.44	1.24	3.67	1.80	20.59	3.60	12.74	6.70	7.26	2.24	.59
18	2.50	.35	1.04	3.66	1.86	20.20	3.74	12.40	6.67	9.75	2.44	.59
19	2.20	.25	1.06	3.66	2.38	19.32	3.72	12.12	7.15	9.84	2.54	.54
20	1.87	.27	1.02	3.56	3.26	18.21	3.52	12.77	8.20	9.55	2.44	.54
21	1.57	.18	1.04	3.07	3.78	17.35	3.32	13.28	9.35	9.54	2.29	.70
22	1.40	.00	1.12	2.10	5.46	16.29	3.00	12.74	9.70	9.41	2.09	.88
23	1.28	-.10	1.27	1.82	6.56	15.05	2.74	11.85	10.20	9.16	1.64	.88
24	1.03	-.10	1.36	1.58	7.57	13.77	2.56	11.10	11.20	9.03	1.14	.94
25	1.13	-.10	1.65	1.44	7.96	13.04	4.38	10.35	11.78	9.03	.79	1.14
26	4.10	-.20	1.82	1.85	7.40	12.96	12.22	9.45	11.92	9.42	.74	1.44
27	5.17	-.30	1.77	2.93	6.44	13.07	15.57	8.60	11.95	9.38	.64	1.69
28	5.28	.00	1.88	3.69	5.58	13.00	16.74	7.92	11.57	8.45	.44	1.89
29	4.85	.10	2.30	4.48	5.39	12.72	16.66	7.15	10.85	7.55	.59	1.94
30	4.11	-.20	2.75	4.73	---	12.51	16.32	6.90	10.10	6.85	.62	1.84
31	3.22	---	3.15	4.54	---	12.96	---	7.35	---	6.35	.47	---
MEAN	2.19	1.16	1.75	4.12	4.16	12.57	8.06	11.37	10.10	9.76	2.80	.79
MAX	5.28	3.04	3.15	6.40	7.96	20.59	16.74	15.98	13.84	12.70	5.85	1.94
MIN	.60	-.30	.85	1.44	1.80	4.19	2.56	6.90	6.67	6.35	.44	-.01

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER-QUALITY RECORDS

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 current year.

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

CHLORIDE: October 1974 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1972 to September 1975.

REMARKS.--Samples for daily chloride are collected by Corps of Engineers and analyzed by Geological Survey.

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, 3.5°C Jan. 19, 1977.

CHLORIDE: Maximum daily, 370 mg/L June 9, 10, 12, 1977; minimum daily, 8.6 mg/L Apr. 7, 1977.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 1,495,000 tons (1,356,000 tonnes) Dec. 9, 1973; minimum daily, 1,000 tons (907 tonnes) Oct. 10-22, 1972.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,860 micromhos June 9; minimum daily, 175 micromhos Mar. 22.

WATER TEMPERATURES: Maximum daily, 30.0°C several days during summer; minimum daily, 3.5°C Jan. 19.

CHLORIDE: Maximum daily, 370 mg/L June 9, 10, 12; minimum daily, 8.6 mg/L Apr. 7.

WATER QUALITY DATA: WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
OCT 28...	1010	392	8.1	14.0	60	45	10.4	3.4	--	--	800	--
NOV 15...	1230	643	7.8	10.0	--	30	10.2	3.1	4700	410	--	--
DEC 21...	1700	404	7.8	9.0	40	80	10.4	6.4	7000	81400	--	--
JAN 14...	0805	588	7.6	8.0	65	55	11.8	4.4	--	1300	580	--
FEB 10...	1545	370	7.1	9.0	80	70	11.4	--	--	1200	--	--
MAR 21...	1230	189	6.9	20.0	80	85	8.4	4.0	--	860	--	1400
APR 21...	1000	246	6.7	20.0	100	55	7.8	2.0	--	1300	--	1900
MAY 17...	1100	481	7.3	24.5	30	65	7.5	3.3	--	160	--	850
JUN 09...	1100	1840	8.1	27.0	5	65	7.6	.8	--	2800	--	76
JUL 18...	1300	1020	8.6	31.0	15	15	8.5	7.0	--	840	--	--
AUG 16...	1245	938	8.2	31.0	3	20	9.2	6.3	--	--	--	--
SEP 06...	1400	1450	7.9	29.0	15	15	8.1	4.6	--	--	--	620

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT 28...	120	11	34	8.3	30	35	1.2	3.2	132	0	108	1.7
NOV 15...	160	47	43	12	64	46	2.2	3.5	138	0	113	3.5
DEC 21...	99	32	27	7.7	41	46	1.8	3.0	82	0	67	2.1
JAN 14...	130	64	35	11	60	49	2.3	3.1	84	0	69	3.4
FEB 10...	72	29	25	6.2	37	47	1.7	2.9	64	0	53	8.1
MAR 21...	55	8	17	3.1	14	34	.8	2.5	58	0	48	12
APR 21...	76	23	24	3.8	18	33	.9	2.1	64	0	53	20
MAY 17...	130	39	38	8.7	49	44	1.9	3.1	112	0	92	9.0
JUN 09...	380	240	100	32	240	57	5.3	5.4	168	0	140	2.1
JUL 18...	260	89	69	22	110	47	3.0	5.6	198	7	170	.9
AUG 16...	220	67	58	19	93	47	2.7	4.5	190	0	160	1.9
SEP 06...	330	160	88	26	160	51	3.9	5.3	200	0	160	4.0

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)
OCT 28...	24	39	.2	6.7	209	211	.06	.76	.82	3.6	.10	29000
NOV 15...	60	92	.1	6.0	344	349	.11	--	--	--	.12	11000
DEC 21...	40	65	.1	5.5	245	230	.16	.93	1.1	4.8	.20	1300
JAN 14...	63	92	.2	6.5	323	312	.14	.91	1.1	4.6	.15	8900
FEB 10...	37	51	.1	6.7	213	201	.21	.83	1.0	4.6	.17	750
MAR 21...	14	19	.0	6.8	125	105	.13	1.1	1.2	5.4	.15	--
APR 21...	20	26	.1	6.3	142	132	.18	.81	.99	4.4	.23	--
MAY 17...	49	72	.1	5.8	294	281	.06	.85	.91	4.0	.15	--
JUN 09...	240	370	.2	6.0	1120	1080	.23	1.2	1.4	6.3	.29	--
JUL 18...	100	160	.2	--	607	--	.03	1.5	1.5	6.8	.06	--
AUG 16...	90	130	.2	4.0	516	492	.04	2.0	2.0	9.0	.12	--
SEP 06...	170	260	.3	4.6	826	813	.01	.43	.44	1.9	.10	--

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT 28...	3	1	0	0	30	0	1	0	5	5	1700	160
JAN 14...	2	0	0	0	10	1	2	0	6	4	4600	70
APR 21...	8	1	0	0	20	11	9	0	16	5	12000	40
JUL 18...	1	1	2	2	10	1	0	0	8	--	420	30

DATE	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 28...	5	0	170	40	.0	.0	0	0	40	20	7.1
JAN 14...	9	0	100	30	.1	.0	1	0	20	10	8.4
APR 21...	13	0	310	0	.0	.0	0	0	30	10	5.6
JUL 18...	7	7	90	20	.0	.0	0	0	40	40	7.1

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	439	994	433	378	264	269	308	1390	1290	1080	1210
2	1070	681	872	428	409	305	321	280	1410	1280	1560	1080
3	1060	764	858	444	378	305	271	251	1590	1330	1200	1140
4	1090	770	856	417	298	228	250	256	1680	1300	1200	1050
5	1060	782	856	502	276	196	229	260	1690	1350	1180	1010
6	997	772	825	555	267	190	207	257	1720	1420	1080	1420
7	998	752	760	522	267	258	200	269	1760	1470	1120	1310
8	980	807	607	499	281	301	198	268	1800	1540	1230	901
9	928	854	563	501	351	252	193	280	1860	1400	1170	649
10	981	682	560	428	366	195	190	329	1830	1220	1140	542
11	1100	658	588	476	369	190	187	407	1780	1340	1190	508
12	1170	581	587	576	354	201	180	444	1780	1300	1150	743
13	1170	524	661	473	334	189	181	452	1750	1120	1180	1170
14	1070	493	691	523	332	180	186	462	1720	1070	1080	1100
15	979	562	741	544	302	190	198	490	1730	1050	1000	591
16	908	545	651	591	251	198	223	500	1710	1010	950	567
17	780	554	584	608	237	201	233	505	1680	994	915	553
18	666	537	613	520	237	189	244	434	1650	1030	862	568
19	640	508	564	429	237	188	241	434	1590	1030	864	602
20	598	489	440	486	234	183	245	448	1600	1080	813	615
21	600	482	424	531	248	183	250	469	1590	1140	886	621
22	468	473	398	577	241	175	244	545	1570	1160	831	632
23	550	481	446	487	238	215	290	736	1580	1000	758	667
24	516	503	471	437	230	243	350	707	1560	1020	931	716
25	400	580	403	410	216	230	423	641	1500	1030	915	760
26	346	674	382	363	214	198	333	724	1510	1100	882	795
27	335	828	431	360	205	191	244	870	1420	1320	954	951
28	338	1020	426	292	212	200	257	948	1390	1290	1120	1050
29	342	953	394	264	---	200	280	1130	1330	1190	1150	1240
30	342	974	408	275	---	228	286	1390	1250	1250	1180	1300
31	401	---	436	353	---	243	---	1410	---	1130	1130	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	14.0	9.0	8.5	7.0	13.5	17.5	21.0	28.0	28.5	29.0	26.0
2	22.0	14.0	9.0	4.0	7.0	14.0	18.0	21.5	27.0	28.5	28.5	26.5
3	23.5	14.0	9.0	7.0	9.0	15.0	18.0	22.0	27.0	28.5	28.5	26.5
4	28.0	14.5	10.0	7.0	9.0	14.0	19.0	23.0	29.0	28.5	28.5	26.5
5	24.0	14.0	9.0	9.0	8.0	14.0	18.0	23.0	27.0	29.0	28.0	26.0
6	22.0	14.0	9.0	8.5	8.5	13.5	17.0	24.0	27.0	28.0	28.0	26.0
7	20.0	15.0	9.0	8.0	9.0	14.0	17.0	24.0	27.5	28.0	27.0	26.0
8	19.0	13.5	8.0	7.5	9.0	12.0	17.0	24.0	26.0	28.5	28.0	26.0
9	18.0	13.0	9.0	10.0	9.0	13.0	17.5	24.0	25.0	28.0	28.0	26.0
10	18.0	14.0	9.0	7.0	9.0	15.0	18.0	23.0	25.0	28.0	28.0	26.0
11	28.0	15.0	12.0	6.0	10.0	15.0	19.0	22.0	27.0	28.0	28.0	26.0
12	20.0	14.0	12.0	6.0	12.0	15.0	19.0	24.0	28.0	27.0	28.5	26.0
13	20.0	12.0	10.0	9.0	11.0	15.0	19.0	24.0	27.5	27.0	27.0	26.0
14	20.0	12.0	10.0	8.5	10.0	15.0	20.0	24.0	25.0	27.0	28.0	24.5
15	20.0	11.0	11.0	9.0	10.0	15.0	20.5	24.0	25.0	27.0	28.5	25.0
16	21.0	11.0	11.0	7.0	10.0	17.0	20.5	24.0	25.0	28.0	28.0	25.0
17	19.0	11.0	10.0	5.5	11.5	17.5	21.0	24.0	26.5	28.0	28.5	24.5
18	17.0	11.0	10.0	5.5	12.0	18.0	21.0	24.5	28.5	28.0	28.5	25.0
19	16.5	12.0	10.0	3.5	12.5	19.0	21.0	25.0	28.0	28.0	28.5	25.0
20	16.0	12.0	10.0	5.5	11.0	17.0	22.0	25.0	28.0	28.0	28.0	24.5
21	15.5	12.0	9.0	6.5	12.0	17.5	21.0	25.0	28.0	28.0	27.0	23.5
22	15.5	11.0	9.0	5.0	15.0	16.0	21.0	25.0	28.0	28.5	27.0	25.0
23	15.5	10.5	10.0	6.5	15.0	15.5	21.5	25.0	28.0	28.5	26.0	24.5
24	17.5	12.0	8.5	6.0	15.0	16.0	20.0	25.0	28.0	28.5	26.0	24.5
25	17.0	13.0	10.5	6.0	14.0	16.0	20.0	25.5	29.0	28.5	26.0	24.5
26	17.0	14.0	10.0	7.0	15.5	17.0	19.5	25.5	29.0	29.0	27.5	25.5
27	16.0	14.0	10.0	9.0	13.5	19.0	19.5	26.0	28.0	29.0	26.5	26.0
28	15.0	13.0	10.0	8.0	13.0	18.5	20.5	26.0	28.0	28.5	26.0	26.0
29	15.0	10.0	9.5	7.0	---	17.5	21.0	27.0	28.5	29.0	26.5	26.5
30	14.0	9.5	9.5	8.0	---	17.5	21.0	27.0	29.0	29.0	26.0	25.0
31	14.0	---	9.5	8.0	---	17.5	---	28.0	---	29.0	26.5	---

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	78	200	62	69	28	22	---	290	240	190	200
2	190	100	140	82	47	42	24	35	290	220	180	190
3	190	140	160	67	57	60	10	36	290	230	220	190
4	180	130	140	63	55	24	21	33	290	230	210	190
5	170	130	140	66	46	20	10	27	340	230	210	190
6	160	130	130	62	43	23	12	27	330	250	200	260
7	160	130	120	94	44	27	8.6	28	340	220	200	260
8	150	130	110	71	34	32	14	38	350	250	200	170
9	150	150	86	62	32	31	12	34	370	280	230	140
10	150	110	96	67	52	19	17	32	370	280	210	92
11	180	100	100	87	52	24	11	58	360	240	210	110
12	190	93	110	93	52	18	12	58	370	240	210	70
13	190	77	120	85	42	18	16	59	340	230	220	77
14	180	77	110	83	46	21	14	65	340	230	210	190
15	160	84	130	100	38	19	32	65	340	180	180	190
16	150	78	130	93	29	22	20	70	340	160	160	99
17	130	76	100	120	23	22	22	74	340	180	150	100
18	110	78	92	99	28	22	25	60	350	180	140	110
19	100	65	86	97	22	22	23	53	320	170	120	100
20	83	59	64	80	24	20	36	53	310	170	130	110
21	93	80	62	120	25	20	28	60	310	180	130	110
22	88	--	57	49	24	23	28	88	300	200	130	110
23	83	64	67	55	21	---	32	87	300	190	110	110
24	70	70	70	75	20	37	40	94	290	160	100	120
25	50	81	55	76	23	26	56	99	280	160	160	140
26	46	96	61	87	23	26	43	120	310	190	150	150
27	43	140	71	110	19	24	28	120	260	170	150	170
28	39	170	67	44	20	18	19	190	260	240	140	160
29	45	160	56	51	---	18	34	190	240	230	190	190
30	38	160	60	43	---	42	32	190	---	210	190	190
31	49	---	64	56	---	26	---	190	---	210	190	---

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT. 28, 1976 1010 HOURS

PHYTOPLANKTON 29,000 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OCCYSTACEAE		
....ANKISTRODESMUS	190	1
....KIRCHNERIELLA	380	1
....OCCYSTIS	380	1
...SCENEDESMACEAE		
....CRUCIGENIA	380	1
....SCENEDESMUS	380	1
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	1,700	6
....MELOSIRA	2,700	9
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	190	1
...FRAGILARIACEAE		
....ASTERIONELLA	2,500	9
...NAVICULACEAE		
....NAVICULA	380	1
....NITZSCHIAEAE		
....NITZSCHIA	190	1
CYANOPHYTA		
..MYXOPHYCEAE		
...CHROOCOCCALES		
....CHROOCOCCACEAE		
....ANACYSTIS	380	1
...OSCILLATORIALES		
...NOSTOCACEAE		
....ANABAENA	18,000	63
...OSCILLATORIAEAE		
....LYNGBYA	770	3
EUGLENOPHYTA		
..EUGLENOPHYCEAE		
...EUGLENALES		
....EUGLENACEAE		
....TRACHELOMONAS	190	1

NOV. 15, 1976 1230 HOURS

PHYTOPLANKTON 11,000 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
..CHLOROCOCCALES		
...COELASTRACEAE		
....COELASTRUM	230	2
...HYDRODICTYACEAE		
....PEDIASTRUM	110	1
...MICRACTINACEAE		
....GOLENKINIA		0
...OCCYSTACEAE		
....ANKISTRODESMUS	770	7
....CLOSTERIOPHYSIS	57	1
....FRANCEIA		0
....OCCYSTIS	85	1
....TETRAEDRON	110	1
...SCENEDESMACEAE		
....SCENEDESMUS	2,200	20
....TETRASTRUM	570	5
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	510	5
...ZYGNEATALES		
...DESMIDIACEAE		
....COSMARIUM		0
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	140	1
....MELOSIRA	510	5
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA		0
...NITZSCHIAEAE		
....NITZSCHIA	140	1

NOV. 15, 1976 1230 HOURS

PHYTOPLANKTON 11,000 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CYANOPHYTA		
..MYXOPHYCEAE		
...CHROOCOCCALES		
....CHROOCOCCACEAE		
....AGMENELLUM		
....ANACYSTIS	1,400	12
...OSCILLATORIALES	1,600	14
...OSCILLATORIAEAE		
....OSCILLATORIA	2,600	23
EUGLENOPHYTA		
..EUGLENOPHYCEAE		
...EUGLENALES		
....EUGLENACEAE		
....EUGLENA		0
....TRACHELOMONAS	85	1
PYRRHOPHYTA		
..DINOPHYCEAE		
...PERIDINIALES		
...PERIDINIACEAE		0
....PERIDINIUM		

DEC. 21, 1976 1700 HOURS

PHYTOPLANKTON 1,300 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTOA		
..CHLOROPHYCEAE		
..CHLOROCOCCALES		
...COELASTRACEAE		
....COELASTRUM	94	7
...OCCYSTACEAE		
....ANKISTRODESMUS	94	7
....DICTYOSPHAERIUM	110	8
....TETRAEDRON	27	2
...SCENEDESMACEAE		
....SCENEDESMUS	310	24
....TETRASTRUM	160	12
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	27	2
CYRYSOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....COSCINODISCUS	13	1
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	13	1
...NITZSCHIAEAE		
....NITZSCHIA	27	2
CYANOPHYTA		
..MYXOPHYCEAE		
...CHROOCOCCALES		
....CHROOCOCCACEAE		
....AGMENELLUM	210	17
...OSCILLATORIALES		
...OSCILLATORIAEAE		
....OSCILLATORIA	200	16

JAN. 14, 1977 0805 HOURS

PHYTOPLANKTON 8,900 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OCCYSTACEAE		
....ANKISTRODESMUS	600	7
....CHODATELLA	46	1
....NEPHROCYTIUM	190	2
....OCCYSTIS	370	4
...SCENEDESMACEAE		
....SCENEDESMUS		0
....TETRASTRUM	1,300	15
...TETRASPORALES		
...COCCOMYXACEAE		
....ELAKATOTHRIX	280	3

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

JAN. 14, 1977 0805 HOURS

PHYTOPLANKTON 8,900 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...TETRASPORALES		
...PALMELLACEAE		
....SPHAEROCYSTIS	460	5
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	370	4
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
...CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	700	8
....MELOSIRA	740	8
...PENNALES		
...FRAGILARIACEAE		
....ASTERIONELLA	46	1
....SYNEDRA	93	1
...NAVICULACEAE		
....GYROSIGMA	46	1
....NAVICULA	46	1
...NITZSCHACEAE		
....NITZSCHIA	2,100	24
CYANOPHYTA		
..MYXOPHYCEAE		
...OSCILLATORIACEAE		
....LYNGBYA		
....OSCILLATORIA	1,500	17
...RIVULARIACEAE		
....RAPHIDIOPSIS		0
EUGLENOPHYTA		
..CRYPTOPHYCEAE		
...CRYPTOMONIDALES		
...CRYPTOCHRYSIDACEAE		
....CHROOMONAS		0
..EUGLENOPHYCEAE		
...EUGLENALES		
...EUGLENACEAE		
....LEPOCINCLIS	46	1

FEB. 10, 1977 1545 HOURS

PHYTOPLANKTON 750 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
...CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	330	44
....MELOSIRA	83	11
...PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	170	22
...NAVICULACEAE		
....NAVICULA	83	11
...NITZSCHACEAE		
....NITZSCHIA	83	11

07355600 RED RIVER AT MONCLA, LA

LOCATION.--Lat 31°12'10", long 92°08'30", T.3 N., R.3 E., Avoyelles Parish, Hydrologic Unit 08040301, near center of span on downstream side of bridge on State Highway 115, 1.4 mi (2.3 km) west of Moncla, at mile 74.0 (119.1 km).

DRAINAGE AREA.--67,625 mi² (175,149 km²), of which 5,936 mi² (15,374 km²) above Denison Dam is noncontributing.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM PER 100 ML	FECAL COLIFORM (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 28...	1100	391	8.1	14.0	30	40	10.8	24	3.5	5400	8500	--
NOV 24...	1300	522	7.8	13.5	40	20	13.5	20	8.1	1700	360	--
DEC 13...	1600	615	7.4	10.0	80	60	12.0	13	3.6	7500	340	--
JAN 21...	1600	460	7.6	4.0	140	90	11.8	14	4.9	824000	1500	--
FEB 14...	1400	350	7.6	10.0	120	60	10.0	43	3.1	21000	1000	--
MAR 07...	1230	219	7.1	13.0	70	85	8.8	32	--	810000	920	--
APR 13...	1315	182	8.0	20.0	140	75	7.9	49	2.1	3000	880	--
MAY 09...	1545	290	7.6	25.5	40	70	7.7	35	.5	2800	700	--
JUN 21...	1400	1630	7.8	30.0	15	65	7.5	25	1.5	5800	340	--
JUL 25...	1530	973	7.3	32.0	10	25	7.4	--	4.6	240	824	--
AUG 08...	1300	1130	8.3	30.5	5	25	9.9	--	4.7	100	--	--
SEP 07...	1100	1500	8.5	29.5	20	15	--	39	6.2	110	--	--

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	SUSPENDED SOLIDS (MG/L)	SETTLABLE MATTER (ML/L/HR)
OCT 28...	120	5	33	8.6	140	0	115	1.8	27	39	66	--
NOV 24...	160	17	43	12	174	0	143	4.4	34	57	42	--
DEC 13...	140	61	36	12	96	0	79	6.1	64	95	132	<1.0
JAN 21...	100	42	27	8.2	71	0	58	2.9	50	71	818	<1.0
FEB 14...	88	17	25	6.2	86	0	71	3.5	36	44	364	<1.0
MAR 07...	65	11	19	4.3	66	0	54	8.4	19	23	216	--
APR 13...	67	8	21	3.6	72	0	59	1.2	11	12	336	--
MAY 09...	91	19	28	5.1	88	0	72	3.5	25	30	326	<1.0
JUN 21...	330	190	87	27	168	0	140	4.3	190	300	10	<1.0
JUL 25...	250	99	65	21	183	0	150	15	92	160	56	--
AUG 08...	260	99	69	22	200	0	160	1.6	120	180	275	<1.0
SEP 07...	320	150	87	26	209	3	180	1.1	160	250	43	--

07355600 RED RIVER AT MONCLA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)
OCT 28...	.00	.01	.01	.77	.11	5	2	1	--	--	2	0
NOV 24...	.00	.01	.01	.54	.13	2	2	1	--	--	0	0
DEC 13...	.10	.01	.11	.58	.17	3	4	2	--	--	0	0
JAN 21...	.17	.00	.17	.70	.25	0	6	2	--	--	1	0
FEB 14...	.18	.01	.19	.88	.28	0	6	0	0	0	0	0
MAR 07...	.14	.02	.16	.87	.21	1	6	1	0	0	0	0
APR 13...	.19	.00	.19	.82	.28	2	8	1	0	0	0	0
MAY 09...	.28	.02	.30	1.3	.23	1	2	1	0	0	0	0
JUN 21...	.18	.00	.18	.50	.17	6	3	2	0	0	0	0
JUL 25...	.03	.02	.05	--	.09	0	1	1	0	0	0	0
AUG 08...	.01	.00	.01	1.4	.16	0	2	1	10	0	<10	1
SEP 07...	.01	.01	.02	.14	.11	0	2	2	10	0	10	1

DATE	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)
OCT 28...	30	0	6	3	60	7	0	.0	.0	8	2	--
NOV 24...	10	0	--	7	60	8	0	.2	.1	0	0	--
DEC 13...	10	0	5	5	60	6	2	.0	.0	3	2	--
JAN 21...	20	0	8	4	40	5	1	.0	.0	22	3	--
FEB 14...	40	0	9	8	50	15	0	.0	.0	22	3	0
MAR 07...	20	0	10	10	70	10	0	.0	.0	10	0	0
APR 13...	10	0	19	2	90	14	7	.0	.0	18	0	0
MAY 09...	10	0	10	8	30	7	3	.0	.0	12	4	0
JUN 21...	20	0	10	10	0	17	7	.4	.4	11	6	0
JUL 25...	10	0	7	7	10	13	3	.2	.2	12	8	0
AUG 08...	0	0	<10	5	50	<100	0	.1	.0	<50	2	1
SEP 07...	0	0	4	4	20	4	1	.0	.0	4	2	0

07355600 RED RIVER AT MONCLA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)
OCT 28...	--	20	10	6.0	.00	2	.0	0	.00	.0	.00	.0
NOV 24...	--	20	0	7.1	.00	0	.0	--	.00	--	.00	--
DEC 13...	--	20	20	8.6	.00	2	.0	--	.00	--	.00	--
JAN 21...	--	20	0	15	.00	2	.0	--	.00	--	.00	--
FEB 14...	--	40	30	11	.00	3	.0	0	.00	.0	.00	.0
MAR 07...	0	40	20	11	.00	0	.0	--	.00	--	.00	--
APR 13...	0	50	10	8.7	.00	1	.0	--	.00	--	.00	--
MAY 09...	0	30	10	15	.00	0	.0	0	.00	.0	.00	.0
JUN 21...	0	30	20	--	.00	0	.0	--	.00	--	.000	--
JUL 25...	0	30	30	4.9	.00	0	.0	0	.00	.0	.000	.0
AUG 08...	1	10	0	6.7	.00	2	.0	--	.00	--	.000	--
SEP 07...	0	20	10	7.5	.00	4	.0	--	.00	--	.000	--

DATE	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)
OCT 28...	.0	0	.00	.0	.00	.0	.00	.0	.01	.0	.00	.0
NOV 24...	.0	--	.00	--	.00	--	.00	--	.00	--	.00	--
DEC 13...	.0	--	.00	--	.00	--	.00	--	.00	--	.00	--
JAN 21...	.0	--	.00	--	.00	--	.00	--	.00	--	.00	--
FEB 14...	.0	0	.00	1.0	.00	.0	.00	1.0	.00	.0	.00	.0
MAR 07...	.0	--	.00	--	.00	--	.00	--	.05	--	.00	--
APR 13...	.0	--	.00	--	.00	--	.00	--	.04	--	.00	--
MAY 09...	.0	0	.00	.0	.00	.6	.00	.0	.00	.0	.00	.0
JUN 21...	.0	--	.000	--	.000	--	.000	--	.01	--	.000	--
JUL 25...	.0	0	.000	.0	.000	.0	.000	.0	.01	.0	.000	.0
AUG 08...	.0	--	.000	--	.000	--	.000	--	.01	--	.000	--
SEP 07...	.0	--	.000	--	.000	--	.000	--	.02	--	.000	--

07355600 RED RIVER AT MONCLA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ENDO- SULFAN (UG/L)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
OCT 28...	--	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
NOV 24...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
DEC 13...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
JAN 21...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
FEB 14...	--	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
MAR 07...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
APR 13...	--	.00	--	.00	--	.00	--	.00	--	.00	--	.00
MAY 09...	--	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
JUN 21...	.000	.000	--	.00	--	.000	--	.000	--	.000	--	.00
JUL 25...	.000	.000	.0	.00	.0	.000	.0	.000	.0	.000	.0	.00
AUG 08...	--	.000	--	.00	--	.000	--	.000	--	.000	--	.00
SEP 07...	.000	.000	--	.00	--	.000	--	.000	--	.000	--	.00

DATE	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)
OCT 28...	.0	--	.00	.0	.00	.0	--	.0	.00	.0	0	0
NOV 24...	--	--	.00	--	.00	--	--	--	.00	--	0	--
DEC 13...	--	--	.00	--	.00	--	--	--	.00	--	0	--
JAN 21...	--	--	.00	--	.00	--	--	--	.00	--	0	--
FEB 14...	.0	--	.00	.0	.00	.0	--	.0	.00	.0	0	0
MAR 07...	--	--	.00	--	.00	--	--	--	.00	--	0	--
APR 13...	--	--	.00	--	.00	--	--	--	.00	--	0	--
MAY 09...	.0	--	.00	.0	.00	.0	.00	.0	.00	.0	0	0
JUN 21...	--	.00	.00	--	.00	--	.00	--	.00	--	.0	--
JUL 25...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0	.0	0
AUG 08...	--	--	.00	--	.00	--	.00	--	.00	--	.0	--
SEP 07...	--	.00	.00	--	.00	--	.00	--	.00	--	.0	--

RED RIVER BASIN

07355600 RED RIVER AT MONCLA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT 28...	.00	.0	.00	.00	.00
NOV 24...	.00	--	.00	.00	.00
DEC 13...	.00	--	.00	.00	.00
JAN 21...	.00	--	.00	.00	.00
FEB 14...	.00	.0	.00	.00	.00
MAR 07...	.00	--	.00	.00	.00
APR 13...	.00	--	.01	.01	.00
MAY 09...	.00	.0	.03	.00	.00
JUN 21...	.00	--	.00	.00	.00
JUL 25...	.00	.0	.00	.08	.00
AUG 08...	.00	--	.01	.05	.01
SEP 07...	.00	--	.01	.02	.00

07355650 LARTO LAKE AT DAM, NEAR ACME, LA

LOCATION.--Lat 31°20'01", long 91°56'10", in SW¼ sec.11, T.4 N., R.5 E., Catahoula Parish, Hydrologic Unit 08040301, at dam 3.0 mi (4.8 km) west of Argo, 4.2 mi (6.8 km) upstream from mouth of Larto Bayou, and 7.7 mi (12.4 km) northwest of Acme.

DRAINAGE AREA.--291 mi² (754 km²).

PERIOD OF RECORD.--December 1968 to September 1977 (discontinued) elevations only.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Oct. 1, 1976, at datum 33.00 ft (10.058 m) higher.

REMARKS.--Reservoir is formed from a natural oxbow lake by an earthfill dam, completed in 1959. The dam consists of a 57-ft (17.4 m) concrete spillway and a 10-ft (3.0 m) wide timber gate. The crest of the dam is at an elevation of 45.45 ft (13.853 m), and the invert of the spillway is at 36.95 ft (11.262 m). The capacity at elevation of 36.95 ft (11.262 m) is estimated to be 15,000 acre-ft (18.5 hm³). Outflow between elevations of 30.95 ft (9.434 m) and 36.95 ft (11.262 m) is regulated by the timber gate.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 59.26 ft (18.062 m), from flood mark, occurred during period May 14-18, 1973; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 39.98 ft (12.186 m) Apr. 25; minimum, 35.88 ft (10.936 m) Oct. 23.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.20	36.14	36.24	37.60	37.55	37.34	37.67	38.28	36.73	36.29	36.17	37.32
2	36.18	36.13	36.25	37.57	37.55	37.31	37.77	38.37	36.69	36.30	36.21	37.32
3	36.16	36.09	36.25	37.65	37.60	37.32	37.82	38.33	36.66	36.28	36.22	37.28
4	36.15	36.08	36.24	37.65	37.85	38.57	38.07	38.20	36.63	36.27	36.21	37.26
5	36.12	36.08	36.24	37.70	37.94	39.32	38.11	38.07	36.62	36.24	36.22	37.25
6	36.25	36.04	36.22	37.69	37.93	39.48	38.02	37.95	36.60	36.27	36.22	37.24
7	36.20	36.03	36.44	37.72	37.89	39.34	38.05	37.80	36.60	36.24	36.23	37.19
8	36.17	36.02	36.37	37.69	37.85	39.13	38.20	37.65	36.53	36.23	36.22	37.20
9	36.14	36.00	36.37	37.85	37.78	38.86	38.34	37.50	36.50	36.20	36.21	37.17
10	36.12	35.99	36.39	38.39	37.72	38.66	38.35	37.38	36.47	36.17	36.18	37.53
11	36.11	35.99	36.40	38.47	37.66	38.46	38.27	37.27	36.47	36.22	36.16	37.54
12	36.10	36.16	36.52	38.47	37.66	38.35	38.14	37.16	36.42	36.20	36.26	37.51
13	36.10	36.10	36.75	38.37	37.61	38.22	38.00	37.12	36.40	36.19	36.24	37.46
14	36.10	36.14	36.79	38.57	37.58	38.13	37.85	37.09	36.56	36.20	36.26	37.47
15	36.09	36.09	36.88	38.63	37.55	38.05	37.73	37.06	36.57	36.18	36.24	37.42
16	36.09	36.08	36.94	38.64	37.49	37.98	37.64	37.03	36.57	36.17	36.22	37.39
17	36.13	36.07	36.95	38.50	37.45	37.86	37.55	37.00	36.58	36.16	36.21	37.34
18	36.06	36.07	36.95	38.48	37.42	37.80	37.54	36.95	36.58	36.15	36.22	37.33
19	36.04	36.07	36.96	38.21	37.39	37.72	37.53	36.94	36.56	36.15	36.21	37.30
20	36.10	36.14	37.12	38.10	37.38	37.67	37.51	36.92	36.53	36.14	36.19	37.28
21	36.01	36.18	37.05	38.01	37.34	37.60	38.28	36.87	36.52	36.13	36.17	37.27
22	36.00	36.14	37.01	37.90	37.29	37.56	39.25	36.86	36.51	36.13	36.32	37.23
23	35.94	36.13	37.03	37.82	37.26	37.48	39.62	36.83	36.48	36.13	36.48	37.20
24	35.97	36.12	37.01	37.83	37.28	37.38	39.85	36.83	36.47	36.11	37.22	37.17
25	35.98	36.10	37.11	37.77	37.26	37.30	39.97	36.82	36.44	36.12	37.34	37.15
26	35.98	36.06	37.50	37.70	37.25	37.20	39.85	36.84	36.42	36.14	37.34	37.12
27	35.98	36.15	37.63	37.68	37.39	37.13	39.55	36.83	36.38	36.15	37.29	37.10
28	35.97	36.24	37.72	37.65	37.35	37.28	39.19	36.79	36.37	36.16	37.31	37.08
29	35.92	36.35	37.74	37.61	---	37.41	38.81	36.78	36.35	36.11	37.30	37.05
30	36.13	36.24	37.70	37.53	---	37.46	38.51	36.76	36.32	36.17	37.32	37.04
31	36.15	---	37.70	37.58	---	37.45	---	36.74	---	36.13	37.32	---
MEAN	36.09	36.11	36.85	37.97	37.55	37.96	38.37	37.26	36.52	36.18	36.51	37.27
MAX	36.25	36.35	37.74	38.64	37.94	39.48	39.97	38.37	36.73	36.30	37.34	37.54
MIN	35.92	35.99	36.22	37.53	37.25	37.13	37.51	36.74	36.32	36.11	36.16	37.04

07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 33°01'52", long 92°05'16", in SE¼NE¼ sec.25, T.19 S., R.10 W., Union County, Hydrologic Unit 08040202, on right bank 500 ft (152 m) below lock and dam No. 6, 1.6 mi (2.6 km) north of Arkansas-Louisiana State line, 3.5 mi (5.6 km) downstream from Missouri Pacific Railroad Co. bridge, and 4.5 mi (7.2 km) southeast of Felsenthal, Ark.

DRAINAGE AREA.--10,787 mi² (27,938 km²).

PERIOD OF RECORD.--April 1958 to current year (discharge above 19.0 ft or 5.79 m stage not determined). Gage-height record for some periods collected at same site since 1912 are contained in reports of Corps of Engineers, Vicksburg district.

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

GAGE.--Water-stage recorder. Datum of gage is 44.09 ft (13.439 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 26, 1958, nonrecording gage at same site and datum. Water-stage recorder for Ouachita River at Alabama Landing, near Haile (sta 07364103), 16 mi (26 km) downstream from base gage at same datum, used as auxiliary gage for this station. Prior to Aug. 26, 1958, nonrecording gage at same site and datum.

REMARKS.--Records poor. Discharge computed for stages below bankfull, about 19 ft (5.79 m). Flow regulated by Lake Ouachita since 1952 (usable capacity, 1,903,000 acre-ft or 2.35 km³), Lake Hamilton since 1932 (usable capacity, 119,560 acre-ft or 147 hm³), Lake Catherine since 1925 (usable capacity, 21,300 acre-ft or 26.3 hm³), Lake Greeson since 1949 (usable capacity, 330,000 acre-ft or 407 hm³), by DeGray Lake since August 1969 (capacity, 881,900 acre-ft or 1.09 km³), and by navigation pools. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report. Records of chemical analyses for Lock and Dam No. 6 for the water year 1977 are published in the Arkansas report (see sta 07364080).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.04 ft (13.119 m) May 14, 15, 1958 (discharge not determined); minimum daily discharge, 190 ft³/s (5.38 m³/s) Sept. 13, 1971; minimum gage height, 6.58 ft (2.006 m) Sept. 14, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 44.2 ft (13.472 m) Apr. 11, 12, 1945; minimum, -0.3 ft (-0.091 m) Nov. 11, 1916, minimum since 1928, 5.8 ft (1.768 m) Aug. 25, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.62 ft (7.809 m) Apr. 18; minimum daily discharge, 754 ft³/s (21.4 m³/s) Sept. 2; minimum gage height, 7.99 ft (2.435 m) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1930	6050	4270	2860	7180	9700			1000	2550	1510	920
2	2710	6050	5200	2670	6760	9150			1090	1770	1560	764
3	2610	5750	5680	2780	6090	8640			1320	1890	1520	1200
4	2600	5430	6150	2910	5330	9850			1720	1650	1630	2390
5	2570	5550	5940	2730	6550	13900			1540	1680	1880	3290
6	2420	5880	4970	2570	8040	15100			1460	1680	1790	2480
7	2370	6250	3640	2600	9650				1410	1550	1660	1450
8	2090	6290	3750	2570	10500				1550	1460	1620	1260
9	1640	5000	4680	2870	10300				1480	1500	1490	1430
10	2420	3280	5890	3840	9890				1470	2040	1260	1580
11	2990	3530	6370	5540	8240				1360	1610	1200	1600
12	2690	4090	6290	7130	7910				1350	1600	1270	1550
13	1430	3890	7280	8500	9600				1400	1640	1330	1380
14	1340	4970	9000	10300	13700				1260	1810	1230	1240
15	2150	5820	9440	11300	15100			11000	1260	1600	1230	972
16	2370	5560	11200	12700	15700			10200	1330	1670	1090	1060
17	2280	4340	11500	14500	16300			8140	1370	1730	1050	1200
18	2260	4360	11200	15000				6880	1480	1740	2040	1330
19	2270	4540	9200	15300				5790	2510	1770	1450	1600
20	2360	5150	7800	15400				4530	6180	1710	1850	1530
21	2360	5680	7110	15200				3700	6790	1790	1340	1550
22	2600	5330	6000	14700				3030	4730	2340	1340	2290
23	2910	4080	5160	14000				2680	2830	2240	1090	2650
24	3030	2650	5310	13200	15500			2150	1780	2150	1130	2610
25	3000	2740	5450	11100	14500			1500	1830	2130	1020	2560
26	3510	3980	4880	10900	13700			1450	1820	1770	1020	2510
27	4610	4280	3620	11300	13000			1420	1650	1450	1000	2460
28	5070	4270	2870	11700	11100			1520	1580	1470	1000	2520
29	5810	4050	2930	10400	---			1830	1860	1550	847	3210
30	6350	3950	2990	9280	---			1930	2700	1600	1050	4500
31	6200	---	2970	8210	---			1750	---	1560	957	---
TOTAL	90950	142790	188740	274060	---	---	---	---	62810	54700	41454	57086
MEAN	2934	4760	6088	8841	---	---	---	---	2094	1765	1337	1903
MAX	6350	6290	11500	15400	---	---	---	---	6790	2550	2040	4500
MIN	1340	2650	2870	2570	5330	8640	1420	1260	1450	847	764	---

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

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.54	11.67	10.32	9.12	12.90	15.03	20.75	24.71	8.26	8.86	8.17	8.09
2	9.08	11.67	11.03	8.99	12.52	14.52	20.96	24.65	8.32	8.42	8.24	8.07
3	8.97	11.48	11.40	9.09	12.02	14.13	21.17	24.48	8.45	8.40	8.25	8.15
4	8.98	11.22	11.78	9.20	11.41	15.08	21.46	24.21	8.35	8.37	8.30	8.84
5	8.98	11.29	11.62	9.09	12.18	17.48	21.69	23.87	8.25	8.38	8.48	9.53
6	8.86	11.56	10.96	8.95	13.25	18.40	21.94	23.49	8.26	8.36	8.45	8.94
7	8.77	11.82	9.86	9.00	14.30	19.08	22.22	23.08	8.17	8.27	8.31	8.32
8	8.65	11.86	9.90	8.99	14.92	19.62	22.48	22.65	8.27	8.27	8.32	8.16
9	8.38	11.00	10.59	9.30	14.89	20.05	22.81	22.27	8.31	8.32	8.30	8.25
10	8.80	9.49	11.54	10.11	14.65	20.50	23.22	21.78	8.30	8.56	8.25	8.34
11	9.27	9.65	11.95	11.40	13.69	20.87	23.71	21.29	8.20	8.44	8.16	8.38
12	9.08	10.12	11.94	12.56	13.44	21.27	24.21	20.78	8.21	8.45	8.12	8.36
13	8.25	10.00	12.58	13.54	14.49	21.54	24.68	20.24	8.24	8.45	8.20	8.33
14	8.09	10.80	13.77	14.84	16.91	21.77	25.04	19.54	8.25	8.52	8.15	8.33
15	8.60	11.50	14.50	15.64	17.89	22.02	25.32	18.70	8.25	8.38	8.08	8.12
16	8.77	11.32	15.19	16.44	18.39	22.21	25.50	17.74	8.26	8.37	8.08	8.07
17	8.69	10.34	15.48	17.69	18.81	22.43	25.56	16.09	8.32	8.37	8.09	8.15
18	8.68	10.35	15.36	18.00	19.19	22.66	25.62	14.26	8.37	8.35	8.60	8.20
19	8.68	10.52	14.24	18.22	19.51	22.82	25.56	12.85	8.93	8.33	8.54	8.38
20	8.76	10.98	13.30	18.32	19.73	22.92	25.46	11.39	11.80	8.32	8.46	8.26
21	8.77	11.37	12.75	18.21	19.82	22.94	25.50	10.37	12.24	8.48	8.17	8.24
22	8.94	11.16	11.93	18.03	19.73	22.88	25.38	9.55	10.78	8.78	8.16	8.75
23	9.26	10.25	11.15	17.68	19.44	22.68	25.27	9.16	9.30	8.70	8.08	9.05
24	9.36	9.04	11.21	17.21	18.93	22.39	25.17	8.72	8.63	8.62	8.11	9.04
25	9.37	9.05	11.31	16.03	18.37	22.05	25.11	8.25	8.44	8.63	8.08	9.00
26	9.70	10.10	10.91	15.42	17.86	21.64	25.04	8.20	8.56	8.36	8.06	8.96
27	10.54	10.30	9.96	15.82	17.35	21.16	24.99	8.18	8.45	8.14	8.12	8.92
28	10.90	10.30	9.26	15.97	16.14	20.77	24.95	8.24	8.40	8.19	8.09	8.94
29	11.46	10.17	9.27	15.20	---	20.52	24.89	8.44	8.48	8.26	7.99	9.45
30	11.92	10.10	9.30	14.44	---	20.49	24.81	8.50	9.05	8.32	8.06	10.53
31	11.80	---	9.24	13.74	---	20.56	---	8.37	---	8.24	8.09	---
MEAN	9.25	10.68	11.73	13.75	16.17	20.40	24.02	16.26	8.74	8.42	8.21	8.61
MAX	11.92	11.86	15.48	18.32	19.82	22.94	25.62	24.71	12.24	8.86	8.60	10.53
MIN	8.09	9.04	9.24	8.95	11.41	14.13	20.75	8.18	8.17	8.14	7.99	8.07

RED RIVER BASIN

07364103 OUACHITA RIVER AT ALABAMA LANDING, NEAR HAILE, LA

LOCATION.--Lat 32°52'25", long 92°05'05", in SW¼SW¼ sec.20, T.22 N., R.4 E., Union Parish, Hydrologic Unit 08040202, on right bank 300 ft (91 m) upstream from road to Alabama Landing, 1.5 mi (2.4 km) downstream from Mud Lake, 4.6 mi (7.4 km) northeast of Haile, and 16 mi (26 km) downstream from gaging station Ouachita River near Arkansas-Louisiana State line (07364100).

DRAINAGE AREA.--11,100 mi² (28,700 km²), approximately.

PERIOD OF RECORD.--October 1973 to current year (gage heights only). Unpublished records from April 1958 to September 1973 available in files of Baton Rouge district office.

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

GAGE.--Water-stage recorder. Datum of gage is 44.09 ft (13.439 m) above mean sea level.

REMARKS.--Flow regulated by Lake Ouachita since 1952 (usable capacity, 1,903,000 acre-ft or 2.35 km³), Lake Hamilton since 1932 (usable capacity, 119,560 acre-ft or 147 hm³), Lake Catherine since 1925 (usable capacity, 21,300 acre-ft or 26.3 hm³), Lake Greason since 1949 (usable capacity, 330,000 acre-ft or 407 hm³), by DeGray Lake since August 1969 (capacity, 881,900 acre-ft or 1.09 km³), and by navigation pools.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 36.61 ft (11.159 m) Jan. 31, 1974; minimum, 7.44 ft (2.268 m) Oct. 5, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.34 ft (7.724 m) Apr. 21; minimum, 8.23 ft (2.508 m) Oct. 14.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.57	9.84	9.24	8.69	11.20	13.11	18.97	24.27	8.39	8.54	8.32	8.44
2	8.75	9.83	9.52	8.63	10.87	12.56	19.02	24.24	8.42	8.50	8.38	8.45
3	8.67	9.80	9.72	8.65	10.57	12.29	19.22	24.10	8.52	8.41	8.41	8.42
4	8.70	9.64	9.95	8.75	10.20	13.09	19.64	23.83	8.44	8.50	8.42	8.66
5	8.72	9.64	9.87	8.71	10.35	14.13	20.09	23.49	8.40	8.50	8.52	8.92
6	8.67	9.80	9.68	8.67	10.96	14.81	20.46	23.09	8.45	8.47	8.53	8.74
7	8.58	9.91	9.10	8.73	11.48	15.25	20.91	22.67	8.36	8.42	8.42	8.52
8	8.62	9.93	9.04	8.74	12.01	15.66	21.40	22.24	8.42	8.46	8.45	8.41
9	8.51	9.72	9.25	8.97	12.15	16.03	21.90	21.75	8.50	8.50	8.48	8.45
10	8.57	8.84	9.75	9.36	12.11	16.40	20.44	21.21	8.49	8.52	8.51	8.49
11	8.78	8.83	10.06	9.91	11.79	16.91	22.97	20.63	8.42	8.60	8.43	8.53
12	8.77	9.04	10.14	10.48	11.57	17.81	23.53	20.00	8.43	8.61	8.36	8.53
13	8.45	9.05	10.32	11.06	12.04	18.70	24.04	19.40	8.45	8.60	8.43	8.56
14	8.30	9.32	11.00	12.03	13.03	19.51	24.47	18.68	8.51	8.61	8.41	8.61
15	8.50	9.75	11.49	12.73	13.78	20.22	24.81	17.83	8.51	8.53	8.33	8.46
16	8.58	9.70	11.87	13.06	14.21	20.82	25.13	16.83	8.50	8.49	8.38	8.38
17	8.52	9.18	12.18	13.73	14.55	21.32	25.23	15.53	8.55	8.46	8.40	8.42
18	8.53	9.16	12.22	14.04	14.85	21.79	25.31	13.69	8.57	8.43	8.58	8.43
19	8.52	9.30	11.93	14.28	15.09	22.11	25.27	12.28	8.70	8.39	8.77	8.53
20	8.56	9.46	11.38	14.43	15.31	22.32	25.23	10.92	9.96	8.41	8.51	8.42
21	8.58	9.65	10.97	14.50	15.54	22.41	25.32	9.96	10.16	8.57	8.39	8.39
22	8.62	9.64	10.49	14.50	15.69	22.37	25.23	9.23	9.60	8.62	8.42	8.61
23	8.85	9.34	9.85	14.41	15.76	22.17	25.09	8.91	9.00	8.58	8.38	8.76
24	8.90	8.75	9.77	14.26	15.66	21.86	24.87	8.67	8.75	8.53	8.40	8.78
25	8.85	8.66	9.81	13.86	15.41	21.48	24.77	8.42	8.50	8.56	8.40	8.76
26	8.85	9.15	9.69	13.20	15.09	21.02	24.69	8.38	8.65	8.43	8.38	8.74
27	9.24	9.17	9.33	13.10	14.67	20.50	24.60	8.37	8.59	8.31	8.45	8.73
28	9.40	9.19	8.89	13.07	14.02	20.07	24.54	8.40	8.56	8.36	8.42	8.70
29	9.67	9.20	8.84	12.77	---	19.61	24.48	8.50	8.53	8.41	8.35	8.85
30	10.00	9.19	8.84	12.28	---	19.29	24.38	8.52	8.70	8.46	8.37	9.38
31	9.93	---	8.75	11.86	---	19.06	---	8.45	---	8.38	8.43	---
MEAN	8.80	9.39	10.09	11.66	13.21	18.54	23.20	15.89	8.67	8.49	8.43	8.60
MAX	10.00	9.93	12.22	14.50	15.76	22.41	25.32	24.27	10.16	8.62	8.77	9.38
MIN	8.30	8.66	8.75	8.63	10.20	12.29	16.97	8.37	8.36	8.31	8.32	8.38

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA

LOCATION.--Lat 32°59'25", long 91°39'20", in SE¼SW¼ 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 (1.6 km) downstream from Arkansas-Louisiana State line, and 1.6 mi (2.6 km) northwest of Jones.

DRAINAGE AREA.--1,187 mi² (3,074 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 79.21 ft (24.143 m) above mean sea level (levels by Corps of Engineers). Auxiliary water-stage recorder at site 4.0 mi (6.4 km) downstream from base gage at different datum. Dec. 7, 1966, to Sept. 30, 1976, auxiliary water-stage recorder at present site at datum 1.0 ft (0.305 m) lower. See WSP 2120 for history of changes prior to Dec. 7, 1966.

REMARKS.--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 and Boeuf River near Girard (sta 07369000 and 07368000). Other flow bypasses station and reenters the basin 5 mi (8 km) downstream by way of Overflow Creek.

AVERAGE DISCHARGE.--20 years, 1,263 ft³/s (35.77 m³/s), 915,000 acre-ft/yr (1.13 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 6,680 ft³/s (189 m³/s) Mar. 11-13, 1961; maximum gage height, 28.24 ft (8.608 m) May 21, 22, 1958; minimum discharge, 32 ft³/s (0.906 m³/s) July 22, 1966, gage height, 0.35 ft (0.107 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,910 ft³/s (82.4 m³/s) Apr. 17; maximum gage height, 17.75 ft (5.410 m) Apr. 18; minimum discharge, 93 ft³/s (2.63 m³/s) July 12, 13, gage height, 1.57 ft (0.479 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	124	256	408	1220	648	1850	2120	187	97	166	154
2	200	126	241	389	1220	665	1790	2060	170	99	155	159
3	184	128	230	370	1210	704	1760	1920	155	103	153	163
4	172	138	220	354	1190	1030	1740	1820	144	106	156	162
5	162	165	215	340	1160	1170	1720	1710	137	107	167	162
6	155	221	215	329	1120	1270	1720	1630	131	105	181	161
7	148	296	224	338	1080	1380	1780	1570	130	102	197	159
8	143	377	231	321	1030	1490	1910	1530	123	99	214	154
9	140	444	244	368	981	1600	2100	1460	116	103	229	149
10	137	509	265	404	907	1680	2300	1380	111	105	243	144
11	133	564	290	394	856	1730	2500	1270	108	99	251	138
12	128	609	318	391	813	1980	2640	1150	110	94	252	135
13	124	644	337	393	753	2090	2740	1030	110	94	249	134
14	121	675	344	487	696	2120	2820	899	109	96	245	135
15	119	692	351	537	643	2150	2860	786	114	103	240	133
16	118	697	360	564	599	2210	2890	682	119	114	233	128
17	117	693	372	589	558	2270	2890	593	123	122	225	126
18	115	679	382	620	528	2330	2870	509	179	124	241	123
19	114	657	390	643	508	2390	2850	444	237	124	238	121
20	114	626	468	670	501	2440	2840	387	248	130	222	117
21	112	587	481	705	502	2440	2810	344	233	138	209	111
22	111	540	468	749	513	2430	2760	302	213	146	204	106
23	109	493	455	799	532	2410	2730	265	191	138	203	102
24	109	443	444	873	554	2370	2690	231	168	131	198	100
25	111	396	462	932	577	2320	2660	211	145	129	190	98
26	112	361	483	983	601	2260	2610	216	124	139	181	97
27	111	326	475	1040	623	2190	2550	233	111	159	173	96
28	110	306	471	1110	638	2130	2460	239	105	170	165	96
29	112	290	462	1160	---	2060	2350	233	101	175	159	99
30	120	272	449	1190	---	1980	2230	220	99	190	154	102
31	124	---	430	1220	---	1910	---	205	---	182	152	---
TOTAL	4103	13078	11033	19670	22113	57847	72420	27649	4351	3823	6245	3864
MEAN	132	436	356	635	790	1866	2414	892	145	123	201	129
MAX	218	697	483	1220	1220	2440	2890	2120	248	190	252	163
MIN	109	124	215	321	501	648	1720	205	99	94	152	96
AC-FT	8140	25940	21880	39020	43860	114700	143600	54840	8630	7600	12390	7660
CAL YR 1976	TOTAL	320703	MEAN	876	MAX	4450	MIN	99	AC-FT	636100		
WTR YR 1977	TOTAL	246196	MEAN	675	MAX	2890	MIN	94	AC-FT	488300		

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.36	2.09	3.82	5.35	11.35	7.29	14.18	15.33	2.97	1.63	2.69	2.52
2	3.14	2.12	3.65	5.17	11.31	7.38	13.95	15.13	2.74	1.67	2.54	2.59
3	2.94	2.15	3.51	5.00	11.31	8.16	13.75	14.84	2.53	1.74	2.50	2.64
4	2.77	2.28	3.39	4.85	11.25	10.90	13.63	14.42	2.37	1.79	2.55	2.63
5	2.63	2.67	3.32	4.71	11.06	11.59	13.54	14.02	2.27	1.80	2.70	2.63
6	2.53	3.40	3.32	4.60	10.82	12.07	13.57	13.68	2.18	1.76	2.90	2.61
7	2.43	4.27	3.44	4.69	10.64	12.60	13.82	13.39	2.17	1.71	3.10	2.59
8	2.36	5.06	3.53	4.52	10.36	13.10	14.28	13.12	2.07	1.67	3.31	2.52
9	2.31	5.66	3.69	4.96	10.00	13.50	14.91	12.79	1.95	1.74	3.50	2.45
10	2.27	6.20	3.92	5.29	9.54	13.81	15.60	12.32	1.86	1.76	3.67	2.37
11	2.22	6.63	4.20	5.19	9.09	14.18	16.23	11.73	1.82	1.67	3.76	2.28
12	2.15	6.98	4.49	5.16	8.89	15.36	16.75	11.04	1.85	1.59	3.78	2.24
13	2.09	7.23	4.68	5.17	8.49	15.66	17.13	10.27	1.85	1.58	3.74	2.23
14	2.04	7.45	4.75	6.28	8.08	15.75	17.39	9.47	1.84	1.61	3.70	2.25
15	2.00	7.57	4.82	6.63	7.61	15.86	17.57	8.68	1.92	1.73	3.64	2.21
16	1.98	7.61	4.91	6.74	7.18	16.00	17.68	7.88	2.00	1.91	3.55	2.15
17	1.97	7.58	5.02	6.91	6.80	16.16	17.71	7.16	2.07	2.05	3.45	2.12
18	1.94	7.48	5.11	7.15	6.52	16.32	17.72	6.46	2.87	2.09	3.66	2.07
19	1.92	7.32	5.18	7.35	6.29	16.43	17.68	5.80	3.60	2.08	3.61	2.03
20	1.92	7.10	5.86	7.57	6.16	16.48	17.62	5.21	3.73	2.17	3.41	1.96
21	1.89	6.81	5.97	7.82	6.14	16.47	17.69	4.75	3.55	2.28	3.25	1.87
22	1.87	6.45	5.86	8.10	6.23	16.39	17.66	4.33	3.30	2.40	3.18	1.79
23	1.84	6.07	5.75	8.43	6.38	16.26	17.61	3.92	3.03	2.29	3.17	1.72
24	1.84	5.65	5.66	8.95	6.56	16.08	17.53	3.52	2.72	2.18	3.11	1.68
25	1.87	5.24	5.81	9.33	6.73	15.86	17.42	3.27	2.38	2.16	3.01	1.66
26	1.88	4.92	5.98	9.69	6.92	15.61	17.26	3.34	2.09	2.29	2.90	1.64
27	1.87	4.57	5.92	10.27	7.08	15.35	17.03	3.55	1.87	2.59	2.79	1.61
28	1.85	4.37	5.88	10.70	7.20	15.19	16.70	3.62	1.76	2.74	2.67	1.62
29	1.89	4.20	5.81	10.93	---	14.97	16.31	3.55	1.70	2.81	2.58	1.67
30	2.02	4.00	5.70	11.16	---	14.71	15.84	3.39	1.66	3.01	2.51	1.72
31	2.08	---	5.54	11.32	---	14.43	---	3.20	---	2.91	2.49	---
MEAN	2.19	5.37	4.79	7.10	8.43	14.19	16.19	8.49	2.36	2.05	3.14	2.14
MAX	3.36	7.61	5.98	11.32	11.35	16.48	17.72	15.33	3.73	3.01	3.78	2.64
MIN	1.84	2.09	3.32	4.52	6.14	7.29	13.54	3.20	1.66	1.58	2.49	1.61

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-58, 1964-73, 1976 to July 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1967 to September 1969.

WATER TEMPERATURES: October 1967 to September 1968.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 350 micromhos Dec. 8, 1967; minimum daily, 36 micromhos Dec. 6, 1968.

WATER TEMPERATURES: Maximum daily, 31.0°C July 26-28, 30, Aug. 2, 1968; minimum daily, 4.0°C Jan. 16-18, 26, 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
DEC 16...	1310	222	172	7.2	8.0	50	25	10.6	2.2	100	66	--
FEB 16...	0915	1140	108	6.8	7.5	100	55	10.1	3.3	45	--	50
MAY 12...	1340	1120	79	7.0	22.5	90	40	5.1	.0	B24	--	--
JUL 27...	0830	157	271	7.7	28.0	10	20	5.7	3.1	<5	--	B200
DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC 16...	59	2	15	5.2	10	25	.6	3.9	70	0	57	7.1
FEB 16...	30	6	7.9	2.6	6.9	30	.5	3.5	30	0	25	7.6
MAY 12...	18	0	3.3	2.3	4.4	31	.5	2.7	27	0	22	4.3
JUL 27...	96	0	26	7.6	19	29	.8	3.2	126	0	100	4.0
DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 16...	10	12	.2	14	--	105	.14	.09	.39	.48	2.1	.17
FEB 16...	12	8.4	.1	7.7	70	64	.10	.11	--	--	--	.19
MAY 12...	6.0	4.7	.1	8.1	69	45	.09	.38	--	--	--	.29
JUL 27...	6.2	20	.1	14	167	158	.23	.23	--	--	--	.17
DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 16...	0	12	0	<10	20	0	4	10	110	16000	0	<10

RED RIVER BASIN

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)
DEC 16...	70	970	.2	.0	10	20	9.0	.00	0	.0	0	.00

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
DEC 16...	.0	.00	.0	.0	0	.00	110	.00	76	.00	43	.00

DATE	TOTAL DI- ELDRIN (UG/L)	TOTAL DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
DEC 16...	.00	1.2	.00	1.4	.00	.00	.0	.00	.0	.00	.0	.00

DATE	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 16...	.00	.00	.00	.0	.00	0	0	.00	.00	.00	.00

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV. 17, 1976.....	0920	6.5	7.5	10.8	MAR. 9.....	1315	12.0	17.5	--
JAN. 14, 1977.....	0900	6.0	5.5	12.2	APR. 20.....	0945	19.5	--	--
FEB. 17.....	1245	17.5	10.5	10.0	JULY 8.....	0830	36.0	30.0	5.3
MAR. 7.....	1420	19.0	14.0	8.8	AUG. 17.....	0915	31.0	29.0	5.3

07364203 BAYOU BARTHOLOMEW NORTHWEST OF JONES, LA

LOCATION.--Lat 32°58'55", long 91°42'00", in NE¼ sec.13, T.23 N., R.7 E., Morehouse Parish, Hydrologic Unit 08040205, on right bank 0.3 mi (0.5 km) upstream from the mouth of Overflow Creek, 1.3 mi (2.1 km) south of Arkansas-Louisiana State line, 3.2 mi (5.1 km) northwest of Jones, and 4.0 mi (6.4 km) downstream from gaging station Bayou Bartholomew near Jones (sta 07364200).

DRAINAGE AREA.--1,190 mi² (3,080 km²), approximately.

PERIOD OF RECORD.--October 1973 to current year (gage heights only). Unpublished records from October 1957 to September 1973 available in files of the Baton Rouge district office.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft or 24 m (from topographic map). Prior to Oct. 1, 1976, at datum 1.0 ft (0.305 m) lower.

REMARKS.--Small diversions above station for irrigation. In extreme floods, considerable flow bypasses station. Most of flow is into the Bayou Lafourche-Boeuf River basins by way of interconnecting system of bayous and drainage ditches and passes stations Bayou Lafourche near Crew Lake and Boeuf River near Girard (sta 07369000 and 07368000). Other flow bypasses station and reenters the basin 1 mi (2 km) downstream by way of Overflow Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, not determined, occurred during period of no gage-height record in 1974; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.55 ft (4.740 m) Apr. 22; minimum, not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.76	---	2.14	3.59	9.50	5.44	12.19	13.34	1.49	---	1.15	.99
2	1.56	---	1.99	3.44	9.45	5.52	11.98	13.15	1.27	---	1.03	1.03
3	1.37	---	1.84	---	9.49	6.46	11.75	12.98	1.08	---	1.02	1.08
4	1.19	---	1.67	---	9.45	9.38	11.62	12.58	.93	---	1.05	1.09
5	1.07	---	1.62	---	9.26	9.99	11.52	12.21	---	---	1.17	1.09
6	.96	---	1.60	2.97	9.02	10.42	11.57	11.90	---	---	1.31	1.09
7	.86	---	1.75	3.09	8.89	10.92	11.82	11.61	---	---	1.48	1.08
8	.79	---	1.82	2.91	8.63	11.36	12.22	11.32	---	---	1.67	1.03
9	.74	---	1.95	3.41	8.25	11.73	12.78	10.99	---	---	1.85	.96
10	.71	---	2.12	3.72	7.81	11.99	13.39	10.52	---	---	2.01	.89
11	.66	---	2.41	3.55	7.32	12.40	13.97	9.93	---	---	2.09	.79
12	.62	---	2.72	3.49	7.18	13.60	14.47	9.25	---	---	2.10	.76
13	.56	---	2.93	3.51	6.82	13.82	14.85	8.51	---	---	2.08	.73
14	.51	---	2.97	4.73	6.43	13.91	15.10	7.74	---	---	2.05	.73
15	.46	---	3.13	4.98	5.96	14.01	15.28	6.96	---	---	2.04	.70
16	.46	---	3.11	5.00	5.52	14.10	15.39	6.20	---	---	1.93	.63
17	.46	5.67	3.20	5.14	5.14	14.23	15.44	5.52	---	---	1.83	.63
18	.45	5.59	3.31	5.36	4.85	14.35	15.47	4.86	---	---	2.10	.59
19	.44	5.45	3.40	5.55	4.60	14.41	15.45	4.22	---	.61	2.07	.53
20	---	5.25	4.15	5.77	4.44	14.42	15.39	3.65	---	.84	1.86	.47
21	---	4.99	4.24	5.99	4.39	14.40	15.52	3.15	---	.99	1.70	.39
22	---	4.67	4.11	6.23	4.44	14.29	15.54	2.71	---	1.08	1.63	.31
23	---	4.30	4.01	6.53	4.58	14.15	15.51	2.34	---	.98	1.63	.25
24	---	3.93	3.91	7.03	4.74	13.97	15.46	2.03	---	.89	1.57	.21
25	---	3.50	4.07	7.40	4.92	13.74	15.36	1.75	---	.78	1.47	.18
26	---	3.19	4.25	7.77	5.07	13.49	15.21	1.73	---	.81	1.35	.17
27	---	2.88	4.18	8.46	5.22	13.25	14.99	1.91	---	1.03	1.24	.14
28	---	2.70	4.14	8.88	5.34	13.11	14.68	2.01	---	1.16	1.13	.14
29	---	2.53	4.08	9.07	---	12.92	14.30	2.00	---	1.23	1.07	.17
30	---	2.33	3.98	9.33	---	12.70	13.85	1.88	---	1.42	1.01	.20
31	---	---	3.78	9.47	---	12.43	---	1.71	---	1.36	.98	---
MEAN	---	---	3.05	---	6.67	12.29	14.07	6.80	---	.36	1.57	.64
MAX	1.76	---	4.25	9.47	9.50	14.42	15.54	13.34	---	1.42	2.10	1.09
MIN	---	---	1.60	2.91	4.39	5.44	11.52	1.71	---	---	.98	.14

07364300 CHEMIN-A-HAUT BAYOU NEAR BEEKMAN, LA

LOCATION.--Lat 32°58'55", long 91°48'20", in SE¼ sec.13, T.23 N., R.6 E., Morehouse Parish, Hydrologic Unit 08040205, near center of span on downstream side of bridge on parish road, 1.9 mi (3.1 km) downstream from Arkansas-Louisiana State line, and 6 mi (10 km) northeast of Beekman.

DRAINAGE AREA.--271 mi² (702 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 76.08 ft (23.189 m) above mean sea level. Prior to Jan. 28, 1956, nonrecording gage, Jan. 29, 1956, to Oct. 1, 1966, at datum 9.50 ft (2.896 m) higher. Auxiliary water-stage recorder 4 mi (6 km) downstream from base gage at datum 76.58 ft (23.342 m) above mean sea level. Prior to Aug. 12, 1975, at datum 0.50 ft (0.152 m) lower. Prior to Sept. 30, 1968, and Nov. 20, 1974, to Aug. 11, 1975, water-stage recorder for Bayou Bartholomew near Beekman (sta 07364500) used as auxiliary gage for this station.

REMARKS.--Records poor. Some diversions above station for irrigation. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--22 years, 286 ft³/s (8.100 m³/s), 207,200 acre-ft/yr (255 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,500 ft³/s (835 m³/s) Apr. 26, 1958; maximum gage height, 28.21 ft (8.598 m) Apr. 27, 1958, present datum; no flow at times in 1956, 1963, 1965, 1966, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,150 ft³/s (32.6 m³/s) Mar. 5, gage height, 18.81 ft (5.733 m); minimum daily discharge, 0.63 ft³/s (0.018 m) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.0	14	32	10	4.5	430	12	1.8	1.3	15	11
2	42	4.0	28	19	7.0	3.3	325	58	2.8	1.1	14	8.8
3	43	3.0	40	9.2	5.2	64	225	222	1.6	1.5	15	10
4	23	2.0	36	4.1	4.8	654	171	434	1.6	1.5	15	6.8
5	9.0	1.0	28	2.2	7.4	1040	358	529	1.5	1.1	14	4.8
6	3.2	.80	23	5.2	7.4	1130	582	518	1.3	.89	12	4.1
7	1.6	.80	19	13	7.8	986	739	470	1.2	.77	11	3.2
8	2.1	.70	14	24	14	769	782	435	1.2	.63	10	2.6
9	2.5	.70	9.8	42	28	559	711	336	1.1	1.9	8.0	2.2
10	1.2	.70	7.4	82	22	442	555	169	.99	2.9	6.0	4.6
11	1.2	.70	10	115	16	337	402	49	.90	2.8	4.5	26
12	1.0	.70	36	124	31	478	220	21	.93	2.6	4.0	35
13	1.0	.80	34	141	78	678	77	10	2.2	3.2	3.5	43
14	.89	.70	26	211	130	798	34	6.0	3.4	6.4	3.0	35
15	.78	.70	19	308	124	748	19	4.4	4.3	6.8	3.0	25
16	.70	.75	13	342	113	555	11	3.8	4.5	5.4	3.5	12
17	.78	.85	11	317	90	404	7.4	3.2	4.3	4.1	4.0	25
18	.70	.90	19	274	60	300	14	2.8	5.6	3.1	12	45
19	.80	.90	20	240	38	178	37	2.2	41	10	79	40
20	1.0	1.0	29	182	25	77	95	2.0	72	16	65	25
21	1.0	1.2	28	94	16	47	295	1.8	76	17	42	10
22	.90	1.2	25	47	9.8	32	511	1.5	41	17	43	5.0
23	.80	1.2	26	32	9.0	22	688	1.3	14	14	39	3.0
24	.70	1.3	21	32	13	17	714	1.5	5.5	17	28	2.4
25	1.0	1.3	21	42	9.5	16	587	1.4	3.5	20	17	1.9
26	2.0	4.5	30	59	5.7	16	423	1.5	2.9	18	9.4	1.6
27	1.2	6.4	36	52	5.7	18	300	1.5	2.4	19	7.8	1.2
28	1.5	9.2	33	37	5.2	112	179	1.6	2.0	22	11	1.2
29	2.0	11	42	28	---	352	56	1.6	1.8	20	15	1.5
30	5.0	13	58	23	---	485	23	1.7	1.5	18	14	1.5
31	8.0	---	48	16	---	516	---	1.8	---	16	13	---
TOTAL	166.45	77.00	804.2	2948.7	892.5	11837.8	9570.4	3304.6	304.82	271.99	540.7	398.4
MEAN	5.37	2.57	25.9	95.1	31.9	382	319	107	10.2	8.77	17.4	13.3
MAX	43	13	58	342	130	1130	782	529	76	22	79	45
MIN	.70	.70	7.4	2.2	4.8	3.3	7.4	1.3	.90	.63	3.0	1.2
AC-FT	330	153	1600	5850	1770	23480	18980	6550	605	539	1070	790
CAL YR 1976	TOTAL	55029.93	MEAN	150	MAX	3720	MIN	.70	AC-FT	109200		
WTR YR 1977	TOTAL	31117.56	MEAN	85.3	MAX	1130	MIN	.63	AC-FT	61720		

07364300 CHEMIN-A-HAUT BAYOU NEAR BEEKMAN, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.68	12.03	12.81	13.02	12.70	12.55	16.99	12.25	11.68	11.43	---	12.22
2	13.15	12.08	12.97	12.86	12.63	12.49	16.21	13.22	11.68	11.39	---	12.13
3	13.16	12.11	13.12	12.74	12.58	13.37	15.21	15.17	11.66	11.49	---	12.18
4	12.93	12.15	13.08	12.64	12.60	17.76	14.62	17.01	11.65	11.48	---	12.03
5	12.74	12.17	12.98	12.56	12.64	18.66	16.43	17.53	11.63	11.39	---	11.91
6	12.61	12.18	12.92	12.60	12.64	18.78	17.69	17.48	11.60	11.33	---	11.85
7	12.53	12.20	12.87	12.80	12.65	18.58	18.11	17.25	11.59	11.28	---	11.78
8	12.56	12.21	12.81	12.93	12.76	18.17	18.20	17.03	11.56	11.24	---	11.69
9	12.58	12.22	12.75	13.14	12.95	17.62	18.05	16.29	11.53	11.52	---	11.62
10	12.49	12.26	12.71	13.64	12.87	17.07	17.61	14.59	11.50	11.73	---	11.82
11	12.49	12.32	12.76	14.02	12.79	16.31	16.79	13.06	11.47	11.72	---	---
12	12.48	12.36	13.07	14.12	12.98	17.21	15.15	12.49	11.48	11.69	---	---
13	12.48	12.38	13.05	14.30	13.55	17.97	13.51	12.19	11.72	11.76	---	---
14	12.47	12.43	12.96	15.06	14.15	18.24	12.79	12.00	11.85	12.01	---	---
15	12.46	12.46	12.87	16.07	14.09	18.13	12.44	11.92	11.91	12.03	---	---
16	12.45	12.47	12.80	16.37	13.98	17.60	12.21	11.88	11.92	11.95	---	---
17	12.46	12.49	12.77	16.16	13.69	16.87	12.07	11.84	11.91	11.85	---	---
18	12.45	12.50	12.86	15.74	13.33	16.02	12.31	11.80	11.96	11.75	12.21	---
19	12.35	12.51	12.88	15.38	13.07	14.69	12.84	11.74	12.90	---	13.51	---
20	12.01	12.54	12.99	14.73	12.91	13.52	13.75	11.71	13.44	---	13.33	---
21	11.78	12.57	12.98	13.74	12.79	13.03	15.99	11.69	13.50	---	12.93	---
22	11.74	12.57	12.94	13.18	12.69	12.75	17.40	11.64	12.91	---	12.97	---
23	11.73	12.57	12.95	12.99	12.67	12.53	18.00	11.59	12.29	---	12.87	---
24	11.67	12.59	12.89	12.99	12.74	12.41	18.06	11.63	11.95	---	12.66	11.66
25	11.77	12.59	12.89	13.12	12.68	12.38	17.73	11.62	11.80	---	12.40	11.59
26	11.80	12.65	13.00	13.32	12.60	12.37	17.20	11.63	11.73	---	12.15	11.51
27	11.75	12.69	13.08	13.23	12.60	12.42	16.34	11.63	11.66	---	12.08	11.43
28	11.67	12.74	13.04	13.05	12.58	13.96	14.70	11.66	11.60	---	12.23	11.45
29	11.75	12.77	13.14	12.95	---	16.41	13.18	11.66	11.54	---	12.35	11.48
30	11.91	12.79	13.33	12.88	---	17.32	12.55	11.67	11.49	---	12.32	11.48
31	11.97	---	13.22	12.79	---	17.48	---	11.68	---	---	12.27	---
MEAN	12.29	12.42	12.95	13.71	12.96	15.63	15.47	13.11	11.90	---	---	---
MAX	13.16	12.79	13.33	16.37	14.15	18.78	18.20	17.53	13.50	---	13.51	---
MIN	11.67	12.03	12.71	12.56	12.58	12.37	12.07	11.59	11.47	11.24	---	11.43

07364320 CHEMIN-A-HAUT BAYOU EAST OF BEEKMAN, LA

LOCATION.--Lat 32°55'40", long 91°49'25", in NE¼ sec.2, T.22 N., R.6 E., Morehouse Parish, Hydrologic Unit 08040205, near center of span on downstream side of bridge on parish road, 2.3 mi (3.7 km) upstream from mouth, 3.5 mi (5.6 km) east of Beekman, and 3.6 mi (5.8 km) downstream from gaging station Chemin-a-Haut Bayou near Beekman (sta 07364300).

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1975 to current year (gage heights only). Unpublished records October 1965 to November 1974, and August and September 1975, available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is 76.58 ft (23.342 m) above mean sea level.

REMARKS.--Some diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.32 ft (5.279 m) Mar. 11, 1976; minimum, -0.43 ft (-0.131 m) July 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.61 ft (3.844 m) Apr. 25; minimum, -0.43 ft (-0.131 m) July 9.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	---	-.07	1.10	4.95	1.38	9.83	9.48	-.28	-.33	.81	.59
2	.33	---	-.06	.85	4.98	1.46	9.34	9.10	-.29	-.36	.70	.56
3	1.08	---	.37	.69	4.98	2.64	8.76	8.94	-.30	-.36	.84	.46
4	1.02	---	.85	.57	4.99	7.54	8.19	9.09	-.30	-.18	.83	.47
5	.74	---	.78	.48	4.94	9.39	7.97	9.49	-.31	-.17	.69	.49
6	.46	---	.69	.53	4.80	10.43	8.58	9.68	-.31	-.32	.57	.38
7	.20	---	.57	.58	4.63	10.82	9.42	9.52	-.24	-.38	.51	.27
8	.04	---	.39	.55	4.47	10.66	10.10	9.20	-.24	-.41	.40	.20
9	-.08	---	.16	1.20	4.26	10.20	10.50	8.77	-.24	-.37	.24	.10
10	.16	---	---	1.52	3.99	9.67	10.63	7.97	-.25	-.37	.08	-.02
11	---	---	---	2.00	3.64	9.40	10.53	6.92	-.26	-.29	-.07	-.12
12	---	---	---	2.21	3.70	10.55	10.30	5.96	-.24	-.21	-.13	-.03
13	---	---	---	2.39	3.71	11.30	10.14	5.12	-.16	-.21	-.15	.83
14	---	---	---	3.43	3.58	11.66	10.13	4.35	-.15	.16	-.19	1.12
15	---	---	---	4.10	3.35	11.84	10.22	3.59	-.11	.30	-.20	.96
16	---	1.32	.36	4.60	3.02	11.70	10.34	2.86	-.11	.34	-.17	.85
17	---	1.43	.23	4.64	2.63	11.27	10.44	2.19	-.15	.20	-.14	.61
18	---	1.44	.14	4.37	2.17	10.85	10.56	1.55	-.18	.09	.10	.71
19	---	1.39	.22	4.04	1.71	10.49	10.62	.96	-.11	-.01	.81	1.12
20	---	1.31	1.01	3.70	1.37	10.18	10.71	.44	1.25	.90	1.67	1.04
21	---	1.15	.78	3.14	1.15	9.95	11.12	.07	1.65	1.13	1.35	.85
22	---	.92	.70	2.60	1.02	9.79	11.61	-.08	1.55	.95	1.16	.61
23	---	.66	.61	2.44	.97	9.65	12.10	-.12	1.05	.77	1.15	.34
24	---	.38	.56	2.65	.99	9.49	12.49	-.16	.60	1.02	1.04	.10
25	---	.14	.79	2.98	1.06	9.32	12.58	-.21	.28	1.26	.87	-.09
26	---	-.04	.74	3.32	1.12	9.11	12.35	-.23	.05	1.09	.68	-.20
27	---	-.08	.76	3.69	1.20	8.89	11.91	-.24	-.10	1.12	.52	-.27
28	---	.00	.85	4.13	1.29	8.99	11.34	-.26	-.20	1.35	.56	-.28
29	---	.01	.81	4.45	---	9.34	10.68	-.27	-.26	1.24	.65	-.27
30	---	-.06	1.12	4.66	---	9.67	10.04	-.28	-.30	1.08	.66	-.32
31	---	---	1.30	4.84	---	9.90	---	-.27	---	.93	.62	---
MEAN	---	---	---	2.66	3.02	9.28	10.45	3.97	.04	.32	.50	.37
MAX	1.08	---	1.30	4.84	4.99	11.84	12.58	9.68	1.65	1.35	1.67	1.12
MIN	---	---	---	.48	.97	1.38	7.97	-.28	-.31	-.41	-.20	-.32

07364500 BAYOU BARTHOLOMEW NEAR BEEKMAN, LA

LOCATION.--Lat 32°52'20", long 91°52'04", in SW¼SW¼ sec.21, T.22 N., R.6 E., Morehouse Parish, Hydrologic Unit 08040205, near right bank on downstream end of pier of bridge on State Highway 139, 0.6 mi (1.0 km) downstream from Bayou de Glaize, 3.6 mi (5.8 km) south of Beekman, and 7.0 mi (11.3 km) north of Bastrop court house.

DRAINAGE AREA.--1,645 mi² (4,261 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 70.60 ft (21.519 m) above mean sea level (levels by Corps of Engineers). Feb. 3, 1939, to Aug. 17, 1955, nonrecording gage at same site and datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft³/s (416 m³/s) May 2, 1958, gage height, 28.30 ft (8.626 m); minimum gage height, 0.63 ft (0.192 m) July 23-26, 1966, and Nov. 27, 28, 1967.
1928-31, 1938-59: Minimum discharge, 38 ft³/s (1.08 m³/s) July 30, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 26.75 ft or 8.153 m (from floodmark) occurred Apr. 17, 1927 (affected by overflow from Mississippi River). A discharge of 12,400 ft³/s (351 m³/s), gage height, 25.78 ft (7.858 m) was measured by the Corps of Engineers, Jan. 12, 1932.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,950 ft³/s (112 m³/s) Apr. 25, gage height, 15.44 ft (4.706 m); minimum gage height, 0.94 ft (0.286 m) July 9.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.22	---	2.40	3.82	8.40	4.79	---	13.11	1.96	1.07	1.90	1.52
2	2.05	---	2.25	3.64	8.45	4.87	---	12.71	1.83	1.04	1.77	1.51
3	1.98	---	2.13	3.48	8.47	5.00	---	12.40	1.66	1.03	1.65	1.51
4	2.01	---	2.11	3.29	8.48	9.96	---	12.28	1.53	1.04	1.64	1.53
5	1.87	---	2.10	3.15	8.47	11.68	---	12.35	1.41	1.07	1.61	1.55
6	1.68	---	2.03	3.00	8.37	12.15	---	12.45	1.32	1.08	1.62	1.55
7	1.53	---	2.03	3.17	8.19	12.51	---	12.40	1.28	1.06	1.66	1.52
8	1.43	---	2.00	3.16	8.05	12.66	---	12.17	1.21	1.00	1.74	1.54
9	1.37	---	2.00	3.37	7.86	12.64	---	11.89	1.18	.95	1.82	1.48
10	1.32	---	2.03	4.45	7.62	12.47	---	11.43	1.14	1.07	1.90	1.42
11	1.27	---	2.13	4.37	7.29	12.25	---	10.67	1.08	1.11	1.98	1.36
12	1.24	---	2.33	4.17	7.37	---	---	9.78	1.06	1.03	2.07	1.29
13	1.22	---	2.56	4.09	7.57	---	---	8.93	1.10	.98	2.09	1.28
14	1.18	---	2.78	5.46	7.11	---	---	8.16	1.11	.96	2.10	1.54
15	1.14	---	2.87	6.31	6.68	---	---	7.41	1.12	.96	2.07	1.55
16	1.12	---	2.89	6.43	6.27	---	---	6.68	1.15	1.07	2.04	1.49
17	1.11	4.90	2.90	6.41	5.84	---	---	5.98	1.18	1.14	1.94	1.41
18	1.08	4.93	2.95	6.37	5.43	---	---	5.33	1.22	1.18	1.90	1.33
19	1.06	4.92	3.01	6.31	4.96	---	---	4.72	1.34	1.24	2.05	1.40
20	---	4.86	3.78	6.20	4.61	---	14.02	4.16	1.78	1.32	2.40	1.47
21	---	4.73	4.08	6.11	4.34	---	14.45	3.67	2.42	1.62	2.48	1.40
22	---	4.51	4.02	5.92	4.20	---	14.75	3.24	2.60	1.75	2.29	1.30
23	---	4.27	3.88	5.83	4.15	---	14.98	2.87	2.42	1.73	2.14	1.20
24	---	3.99	3.75	6.00	4.22	---	15.24	2.57	2.08	1.65	2.10	1.11
25	---	3.70	3.76	6.33	4.33	---	15.43	2.30	1.81	1.73	2.03	1.05
26	---	3.43	4.00	6.66	4.43	---	15.41	2.10	1.58	1.71	1.92	1.01
27	---	3.17	4.00	6.97	4.56	---	15.19	2.00	1.39	1.61	1.81	.99
28	---	2.97	3.97	7.41	4.68	---	14.84	2.03	1.24	1.71	1.78	.97
29	---	2.77	3.92	7.78	---	---	14.30	2.12	1.16	1.87	1.79	1.00
30	---	2.57	3.85	8.04	---	---	13.69	2.14	1.12	1.96	1.63	.99
31	---	---	3.88	8.26	---	---	---	2.07	---	1.94	1.57	---
MEAN	---	---	2.98	5.35	6.44	---	---	7.17	1.48	1.31	1.92	1.34
MAX	---	---	4.08	8.26	8.48	---	15.43	13.11	2.60	1.96	2.48	1.55
MIN	---	---	2.00	3.00	4.15	---	---	2.00	1.06	.95	1.57	.97

07364700 BAYOU DE LOUITRE NEAR LARAN, LA

LOCATION.--Lat 32°57'19", long 92°29'59", in NW¼ sec.29, T.23 N., R.1 W., Union Parish, Hydrologic Unit 08040202, near center of span on downstream side of bridge on parish road, 1.5 mi (2.4 km) southwest of Laran, 1.5 mi (2.4 km) downstream from Lion Creek, and 3.0 mi (4.8 km) upstream from bridge on State Highway 550.

DRAINAGE AREA.--141 mi² (365 km²).

PERIOD OF RECORD.--October 1955 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 112.34 ft (34.241 m) above mean sea level. Prior to Jan. 31, 1956, nonrecording gage at same site and datum.

REMARKS.--Records fair. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--22 years, 185 ft³/s (5.239 m³/s), 17.82 in/yr (453 mm/yr), 134,000 acre-ft/yr (165 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,900 ft³/s (677 m³/s) June 9, 1974, gage height, 20.43 ft (6.227 m) from flood-mark; minimum, 1.0 ft³/s (0.028 m³/s) July 21, 25, 26, 1964; minimum gage height, 1.04 ft (0.317 m) Aug. 16-18, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28 m³/s), no peaks above the base. Maximum discharge, 702 ft³/s (19.9 m³/s) Mar. 29, gage height, 6.73 ft (2.051 m); minimum discharge, 7.1 ft³/s (0.201 m³/s) June 12; minimum gage height, 1.26 ft (0.384 m) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	34	78	87	52	77	66	493	32	13	12	47	61		
2	32	69	78	49	78	61	400	95	11	11	40	57		
3	27	68	64	49	90	98	250	157	11	12	29	44		
4	24	65	54	52	118	323	280	165	11	17	22	30		
5	27	52	48	57	138	445	310	158	12	11	18	20		
6	35	41	57	67	142	390	307	158	11	9.3	26	16		
7	37	35	79	88	150	299	277	108	9.7	8.3	31	14		
8	35	32	93	97	157	294	252	68	9.0	8.1	22	14		
9	36	30	91	133	133	260	188	90	8.3	8.8	16	15		
10	36	30	85	173	96	167	104	99	7.7	18	14	20		
11	32	30	92	179	85	117	66	82	7.4	39	12	20		
12	28	32	97	168	209	277	55	65	7.1	43	12	20		
13	25	39	92	179	331	465	47	52	8.0	36	16	25		
14	23	52	88	282	379	473	42	39	13	38	18	45		
15	21	56	82	296	361	378	39	31	23	43	44	50		
16	21	58	78	251	410	354	36	26	32	36	24	40		
17	23	55	72	225	410	272	34	24	46	22	20	30		
18	25	50	61	256	266	153	123	22	48	14	24	25		
19	27	45	55	269	141	91	209	20	44	11	26	35		
20	29	50	59	219	93	73	173	19	43	13	26	60		
21	29	64	54	134	76	64	193	18	35	28	32	60		
22	29	68	48	98	69	59	217	17	24	30	41	45		
23	27	62	44	90	68	54	169	16	18	34	35	35		
24	30	57	42	101	69	51	129	16	14	34	28	25		
25	40	55	47	116	75	54	93	16	14	27	29	20		
26	47	61	55	123	77	55	63	15	15	19	31	18		
27	49	68	63	125	75	88	49	14	16	17	29	17		
28	50	77	62	128	73	434	40	15	16	30	42	30		
29	53	86	60	115	---	683	35	15	15	37	61	50		
30	74	89	58	93	---	643	31	15	14	40	63	60		
31	79	---	54	81	---	523	---	14	---	50	60	---		
TOTAL	1084	1654	2099	4345	4446	7764	4704	1681	556.2	756.5	938	1001		
MEAN	35.0	55.1	67.7	140	159	250	157	54.2	18.5	24.4	30.3	33.4		
MAX	79	89	97	296	410	683	493	165	48	50	63	61		
MIN	21	30	42	49	68	51	31	14	7.1	8.1	12	14		
CFSM	.25	.39	.48	.99	1.13	1.77	1.11	.38	.13	.17	.21	.24		
IN.	.29	.44	.55	1.15	1.17	2.05	1.24	.44	.15	.20	.25	.26		
AC-FT	2150	3280	4160	8620	8820	15400	9330	3330	1100	1500	1860	1990		
CAL YR 1976	TOTAL	49153.3	MEAN	134	MAX	2180	MIN	9.5	CFSM	.95	IN	12.97	AC-FT	97500
WTR YR 1977	TOTAL	31028.7	MEAN	85.0	MAX	683	MIN	7.1	CFSM	.60	IN	8.19	AC-FT	61550

07364700 BAYOU DE LOUITRE NEAR LARAN, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.92	2.73	2.92	2.44	2.61	2.46	5.81	1.82	1.43	1.39	2.14	2.35
2	1.87	2.62	2.82	2.39	2.62	2.38	---	2.83	1.40	1.36	2.01	2.28
3	1.79	2.61	2.64	2.38	2.77	2.84	---	3.55	1.38	1.38	1.81	2.07
4	1.71	2.57	2.48	2.45	3.12	4.91	---	3.64	1.38	1.55	1.67	1.81
5	1.77	2.37	2.37	2.53	3.35	5.58	---	3.57	1.43	1.37	1.58	1.61
6	1.93	2.17	2.52	2.67	3.39	5.31	4.80	3.57	1.39	1.31	1.76	1.51
7	1.96	2.07	2.82	2.90	3.48	4.78	4.63	2.99	1.36	1.28	1.85	1.46
8	1.93	2.01	2.98	3.00	3.56	4.74	4.44	2.47	1.33	1.27	1.66	---
9	1.94	1.99	2.96	3.36	3.29	4.50	3.87	2.78	1.31	1.30	1.54	---
10	1.95	1.99	2.89	3.72	2.85	3.64	2.94	2.89	1.29	1.55	1.48	---
11	1.89	2.00	2.97	3.77	2.71	3.10	2.46	2.67	1.28	2.00	1.42	---
12	1.81	2.04	3.02	3.67	4.05	4.59	2.26	2.44	1.27	2.07	1.43	---
13	1.76	2.17	2.97	3.78	4.98	5.68	2.12	2.21	1.30	1.94	1.53	---
14	1.72	2.40	2.93	4.66	5.25	5.72	2.02	1.96	1.45	1.98	1.56	---
15	1.69	2.49	2.85	4.76	5.16	5.25	1.95	1.80	1.68	2.07	2.08	---
16	1.70	2.52	2.82	4.44	5.41	5.12	1.90	1.71	1.88	1.94	1.69	---
17	1.74	2.47	2.74	4.22	5.41	4.58	1.86	1.65	2.12	1.68	1.62	---
18	1.79	2.38	2.60	4.47	4.52	3.50	3.13	1.61	2.16	1.49	1.69	---
19	1.83	2.31	2.49	4.57	3.37	2.79	4.08	1.59	2.09	1.39	1.74	---
20	1.88	2.39	2.56	4.16	2.81	2.55	3.72	1.55	2.06	1.44	1.74	---
21	1.88	2.63	2.48	3.29	2.60	2.43	3.92	1.53	1.91	1.81	1.86	---
22	1.88	2.70	2.38	2.87	2.49	2.34	4.15	1.52	1.71	1.84	2.02	---
23	1.85	2.60	2.31	2.78	2.48	2.26	3.68	1.51	1.56	1.92	1.90	---
24	1.91	2.52	2.26	2.92	2.49	2.22	3.24	1.50	1.47	1.91	1.78	---
25	2.11	2.50	2.35	3.09	2.58	2.26	2.81	1.50	1.44	1.78	1.80	---
26	2.22	2.58	2.50	3.17	2.61	2.28	2.40	1.47	1.49	1.61	1.83	---
27	2.27	2.69	2.62	3.19	2.59	2.74	2.14	1.47	1.50	1.55	1.79	---
28	2.29	2.80	2.60	3.22	2.55	5.46	1.98	1.47	1.52	1.83	2.04	---
29	2.34	2.91	2.57	3.08	---	6.66	1.88	1.47	1.49	1.96	2.35	---
30	2.67	2.93	2.54	2.82	---	6.49	1.79	1.48	1.44	2.02	2.38	---
31	2.75	---	2.48	2.66	---	5.96	---	1.47	---	2.21	2.34	---
MEAN	1.96	2.44	2.66	3.34	3.40	4.04	---	2.12	1.55	1.68	1.81	---
MAX	2.75	2.93	3.02	4.76	5.41	6.66	5.81	3.64	2.16	2.21	2.38	---
MIN	1.69	1.99	2.26	2.38	2.48	2.22	1.79	1.47	1.27	1.27	1.42	---

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 (15.2 m) upstream from dam on Bayou D'Arbonne, and 2.0 mi (3.2 km) northeast of Aycock.

DRAINAGE AREA.--133 mi² (344 km²).

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 (53.645 m) above mean sea level (levels by Louisiana Department of Transportation and Development, Office of Public Works).

REMARKS.--Reservoir is formed by an earthfill dam, containing an uncontrolled concrete drop inlet spillway near the left end of dam. Outflow below spillway elevation is controlled by sluice gates at outlet. Capacity, 100,000 acre-ft (123 hm³) at 9.0 ft (2.74 m) gage height. Dam completed and storage began in 1966. Reservoir is used for flood control and conservation. Gates remained closed during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.47 ft (3.496 m) May 4, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.80 ft (2.987 m) Apr. 4; minimum, 8.09 ft (2.466 m) Sept. 30.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.74	8.53	8.62	8.84	9.24	9.34	9.57	9.26	9.01	8.57	8.56	8.32
2	8.72	8.52	8.63	8.84	9.24	9.31	9.56	9.33	9.00	8.55	8.51	8.31
3	8.70	8.52	8.61	8.86	9.32	9.33	9.60	9.33	9.00	8.52	8.50	8.30
4	8.68	8.52	8.61	8.87	9.30	9.54	9.73	9.32	8.98	8.50	8.49	8.29
5	8.69	8.51	8.60	8.88	9.29	9.56	9.76	9.31	8.98	8.50	8.46	8.28
6	8.70	8.51	8.61	8.88	9.27	9.55	9.68	9.28	8.98	8.49	8.45	8.25
7	8.67	8.51	8.72	8.93	9.26	9.52	9.63	9.27	8.96	8.48	8.44	8.24
8	8.65	8.49	8.70	8.93	9.25	9.50	9.59	9.27	8.91	8.45	8.43	8.21
9	8.62	8.49	8.69	9.01	9.24	9.48	9.56	9.33	8.88	8.43	8.41	8.22
10	8.60	8.49	8.69	9.04	9.23	9.45	9.52	9.31	8.84	8.40	8.40	8.20
11	8.59	8.49	8.72	9.02	9.25	9.43	9.48	9.28	8.81	8.40	8.40	8.20
12	8.59	8.48	8.77	9.03	9.55	9.58	9.43	9.26	8.80	8.39	8.38	8.18
13	8.58	8.46	8.77	9.04	9.63	9.53	9.41	9.25	8.79	8.37	8.36	8.16
14	8.58	8.49	8.77	9.20	9.63	9.51	9.39	9.24	8.79	8.37	8.37	8.22
15	8.57	8.48	8.78	9.21	9.59	9.50	9.36	9.23	8.79	8.34	8.38	8.20
16	8.56	8.47	8.79	9.22	9.54	9.47	9.34	9.22	8.78	8.40	8.37	8.19
17	8.57	8.50	8.79	9.21	9.58	9.44	9.32	9.19	8.80	8.38	8.35	8.18
18	8.53	8.49	8.78	9.25	9.55	9.41	9.46	9.18	8.82	8.37	8.32	8.18
19	8.52	8.49	8.78	9.20	9.51	9.42	9.48	9.17	8.82	8.34	8.30	8.27
20	8.53	8.53	8.88	9.21	9.49	9.41	9.45	9.16	8.80	8.33	8.29	8.20
21	8.51	8.54	8.85	9.21	9.45	9.40	9.49	9.12	8.80	8.37	8.28	8.18
22	8.50	8.53	8.84	9.20	9.44	9.38	9.48	9.10	8.79	8.37	8.30	8.16
23	8.48	8.50	8.84	9.21	9.43	9.35	9.44	9.10	8.78	8.50	8.28	8.15
24	8.48	8.50	8.83	9.23	9.42	9.34	9.42	9.08	8.75	8.49	8.29	8.14
25	8.53	8.50	8.87	9.23	9.40	9.34	9.40	9.08	8.71	8.49	8.38	8.14
26	8.50	8.56	8.87	9.23	9.36	9.33	9.36	9.07	8.70	8.45	8.38	8.12
27	8.49	8.59	8.86	9.23	9.38	9.36	9.32	9.05	8.68	8.43	8.36	8.11
28	8.48	8.63	8.85	9.23	9.35	9.56	9.33	9.04	8.63	8.46	8.39	8.10
29	8.47	8.63	8.86	9.22	---	9.62	9.31	9.03	8.60	8.47	8.38	8.10
30	8.56	8.62	8.86	9.22	---	9.62	9.27	9.02	8.60	8.48	8.37	8.09
31	8.53	---	8.85	9.24	---	9.59	---	9.02	---	8.50	8.35	---
MEAN	8.58	8.52	8.76	9.10	9.40	9.46	9.47	9.19	8.82	8.44	8.38	8.20
MAX	8.74	8.63	8.88	9.25	9.63	9.62	9.76	9.33	9.01	8.57	8.56	8.32
MIN	8.47	8.46	8.60	8.84	9.23	9.31	9.27	9.02	8.60	8.33	8.28	8.09

07366200 LITTLE CORNEY BAYOU NEAR LILLIE, LA

LOCATION.--Lat 32°55'43", long 92°37'56", in NW¼ sec.1, T.22 N., R.3 W., Union Parish, Hydrologic Unit 08040206, near center of span on downstream side of bridge on State Highway 15, 1.4 mi (2.3 km) east of Lillie, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--208 mi² (539 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 91.48 ft (27.883 m) above mean sea level. Prior to Jan. 27, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--22 years, 192 ft³/s (5.44 m³/s), 12.54 in/yr (319 mm/yr), 139,100 acre-ft/yr (172 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,000 ft³/s (680 m³/s) June 9, 1974, gage height, 17.54 ft (5.346 m), from flood-mark; no flow Aug. 18-20, Sept. 21 to Oct. 1, Oct. 3-5, 1956, Aug. 11-14, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft³/s (34 m³/s), no peak above the base. Maximum discharge, 490 ft³/s (13.9 m³/s) Feb. 13, gage height, 6.25 ft (1.905 m); minimum, 2.3 ft³/s (0.065 m³/s) June 11 and Sept. 8; minimum gage height, 1.14 ft (0.348 m) July 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	59	50	40	62	62	324	21	6.6	5.3	19	11
2	13	45	43	36	65	57	303	77	6.0	4.6	16	8.7
3	11	35	39	38	73	85	204	127	5.4	4.3	14	6.9
4	11	29	36	44	119	293	268	123	5.1	4.5	12	5.7
5	13	23	34	50	151	357	327	103	4.6	4.4	8.3	4.0
6	25	20	40	52	174	330	311	60	4.3	3.6	10	3.4
7	28	18	74	73	192	325	278	40	3.9	3.1	14	2.9
8	24	17	84	77	186	391	238	44	3.5	2.8	10	2.5
9	20	17	76	93	113	425	133	140	3.1	2.6	7.4	2.6
10	19	17	65	185	75	286	70	161	2.7	4.8	6.1	3.2
11	16	18	56	199	71	149	57	109	2.6	7.5	5.1	4.1
12	14	22	63	176	271	277	49	58	3.5	8.7	4.1	4.2
13	13	33	68	157	449	341	43	38	3.7	8.9	3.7	3.9
14	12	38	65	204	463	290	39	28	4.2	8.2	8.7	6.0
15	10	39	59	258	391	284	35	22	9.1	5.9	13	11
16	10	36	54	256	368	305	32	18	19	4.8	9.9	9.5
17	13	36	48	256	350	231	30	15	40	3.7	7.2	7.0
18	20	33	43	263	228	107	60	13	35	3.0	6.1	5.9
19	18	29	40	252	114	75	104	12	23	2.6	7.0	5.5
20	17	32	43	132	83	65	111	11	17	2.8	9.2	13
21	20	54	42	78	71	59	143	10	12	8.9	8.8	13
22	18	50	40	70	66	56	129	9.7	8.5	26	8.0	9.2
23	16	43	39	68	63	52	75	9.2	6.9	21	8.3	6.9
24	15	38	35	90	71	48	58	7.9	5.4	12	7.5	5.5
25	31	35	38	108	77	48	52	5.9	4.6	8.6	10	4.9
26	45	37	52	116	85	50	41	7.4	5.0	10	9.8	4.1
27	42	48	53	117	89	81	34	14	8.2	10	8.1	3.5
28	32	59	51	99	74	306	27	16	14	8.7	9.5	3.5
29	26	68	44	78	---	413	23	12	11	13	17	8.5
30	48	59	41	66	---	358	19	9.0	7.0	11	17	16
31	65	---	40	61	---	317	---	7.6	---	21	12	---
TOTAL	680	1087	1555	3792	4594	6523	3617	1328.7	284.9	246.3	306.8	196.1
MEAN	21.9	36.2	50.2	122	164	210	121	42.9	9.50	7.95	9.90	6.54
MAX	65	68	84	263	463	425	327	161	40	26	19	16
MIN	10	17	34	36	62	48	19	5.9	2.6	2.6	3.7	2.5
CFSM	.11	.17	.24	.59	.79	1.01	.58	.21	.05	.04	.05	.03
IN.	.12	.19	.28	.68	.82	1.17	.65	.24	.05	.04	.05	.04
AC-FT	1350	2160	3080	7520	9110	12940	7170	2640	565	489	609	389

CAL YR 1976 TOTAL 48447.7 MEAN 132 MAX 3090 MIN 4.0 CFSM .63 IN 8.66 AC-FT 96100
WTR YR 1977 TOTAL 24210.8 MEAN 66.3 MAX 463 MIN 2.5 CFSM .32 IN 4.33 AC-FT 48020

RED RIVER BASIN

07366200 LITTLE CORNEY BAYOU NEAR LILLIE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.76	3.23	3.05	2.75	3.33	3.33	5.72	1.94	1.37	1.28	1.80	1.50
2	1.68	2.84	2.86	2.64	3.42	3.16	5.62	3.56	1.35	1.25	1.68	1.43
3	1.61	2.53	2.73	2.69	3.62	3.66	5.07	4.44	1.33	1.24	1.63	1.36
4	1.58	2.33	2.63	2.87	4.33	5.56	5.44	4.39	1.31	1.25	1.53	1.31
5	1.67	2.16	2.56	3.05	4.68	5.85	5.73	4.13	1.29	1.23	1.38	1.24
6	2.08	2.03	2.75	3.12	4.87	5.74	5.65	3.24	1.28	1.19	1.47	1.22
7	2.20	1.98	3.61	3.60	5.00	5.72	5.50	2.60	1.26	1.17	1.61	1.19
8	2.08	1.94	3.82	3.69	4.95	5.97	5.28	2.70	1.24	1.16	1.46	1.17
9	1.94	1.94	3.67	3.89	4.25	6.07	4.46	4.54	1.22	1.15	1.35	1.18
10	1.89	1.94	3.44	4.71	3.66	5.51	3.55	4.76	1.20	1.25	1.31	1.21
11	1.81	1.98	3.21	4.81	3.57	4.64	3.18	4.20	1.20	1.36	1.26	1.25
12	1.74	2.11	3.40	4.66	5.42	5.49	2.90	3.18	1.24	1.41	1.22	1.25
13	1.68	2.51	3.53	4.53	6.14	5.78	2.71	2.52	1.25	1.42	1.20	1.24
14	1.64	2.67	3.44	4.88	6.18	5.56	2.56	2.18	1.27	1.39	1.41	1.34
15	1.60	2.68	3.30	5.25	5.97	5.54	2.42	1.98	1.48	1.29	1.58	1.53
16	1.59	2.61	3.16	5.24	5.89	5.63	2.33	1.83	1.87	1.25	1.46	1.48
17	1.72	2.60	3.00	5.24	5.82	5.22	2.24	1.71	2.59	1.20	1.35	1.38
18	1.97	2.51	2.86	5.28	5.21	4.18	3.17	1.65	2.43	1.17	1.30	1.34
19	1.88	2.40	2.77	5.21	4.28	3.66	4.15	1.60	1.99	1.15	1.35	1.32
20	1.87	2.48	2.84	4.37	3.83	3.40	4.25	1.54	1.76	1.16	1.44	1.61
21	1.97	3.17	2.83	3.69	3.58	3.24	4.60	1.52	1.57	1.42	1.43	1.63
22	1.91	3.05	2.76	3.53	3.42	3.12	4.45	1.50	1.44	2.08	1.39	1.47
23	1.86	2.87	2.72	3.49	3.36	2.98	3.65	1.48	1.37	1.90	1.40	1.39
24	1.79	2.69	2.61	3.92	3.58	2.87	3.19	1.43	1.30	1.52	1.37	1.33
25	2.35	2.61	2.69	4.18	3.72	2.86	2.99	1.34	1.27	1.39	1.48	1.30
26	2.83	2.66	3.12	4.28	3.86	2.93	2.64	1.41	1.29	1.47	1.46	1.27
27	2.71	3.01	3.13	4.29	3.92	3.67	2.39	1.67	1.41	1.47	1.40	1.24
28	2.42	3.31	3.08	4.08	3.64	5.59	2.16	1.73	1.66	1.40	1.46	1.24
29	2.23	3.52	2.89	3.71	---	6.04	1.99	1.58	1.52	1.60	1.74	1.45
30	2.90	3.30	2.78	3.43	---	5.85	1.87	1.47	1.36	1.50	1.73	1.76
31	3.39	---	2.77	3.31	---	5.69	---	1.42	---	1.89	1.55	---
MEAN	2.01	2.59	3.03	4.01	4.41	4.66	3.73	2.43	1.47	1.37	1.46	1.35
MAX	3.39	3.52	3.82	5.28	6.18	6.07	5.73	4.76	2.59	2.08	1.80	1.76
MIN	1.58	1.94	2.56	2.64	3.33	2.86	1.87	1.34	1.20	1.15	1.20	1.17

07366300 BAYOU D'ARBONNE LAKE AT FARMERVILLE, LA

LOCATION.--Lat 32°45'25", long 92°24'50", in NW¼ sec.6, T.20 N., R.1 E., Union Parish, Hydrologic Unit 08040206, near left bank on downstream side of bridge on State Highway 33, 0.6 mi (1.0 km) southwest of Farmerville, and 5.0 mi (8.0 km) upstream from dam on Bayou D'Arbonne.

DRAINAGE AREA.--1,607 mi² (4,162 km²) at dam. 1,585 mi² (4,105 km²) 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.--WRD LA-71: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 40.40 ft (12.314 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by an earthfill dam containing a 799-ft (244-m) uncontrolled concrete spillway at left end. Capacity, 130,000 acre-ft (160 hm³) at spillway crest, 39.60 ft (12.07 m), gage datum. There is no dead storage. Outflow below spillway crest controlled by sluice gates at outlet. Dam completed and storage began in 1964. Reservoir is used for flood control and conservation. Gates were closed all year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 45.43 ft (13.847 m) June 11, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1925, 45.71 ft (13.932 m) Apr. 30, 1958, from records of Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 40.84 ft (12.448 m) Apr. 6; minimum, 39.45 ft (12.024 m) Sept. 28.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.71	39.63	39.86	39.92	40.13	40.12	40.70	40.05	39.78	39.62	39.74	39.65
2	39.70	39.63	39.86	39.92	40.12	40.11	40.68	40.27	39.76	39.60	39.73	39.63
3	39.69	39.64	39.85	39.95	40.13	40.12	40.65	40.33	39.75	39.59	39.71	39.62
4	39.68	39.64	39.85	39.95	40.15	40.39	40.74	40.32	39.74	39.60	39.69	39.60
5	39.66	39.63	39.84	39.95	40.16	40.54	40.80	40.28	39.73	39.58	39.68	39.58
6	39.69	39.62	39.87	39.94	40.16	40.64	40.82	40.24	39.72	39.56	39.70	39.57
7	39.66	39.63	39.90	40.00	40.17	40.64	40.80	40.20	39.66	39.54	39.69	39.55
8	39.65	39.62	39.90	40.01	40.18	40.60	40.75	40.15	39.65	39.52	39.68	39.54
9	39.63	39.61	39.91	40.11	40.19	40.57	40.67	40.15	39.64	39.50	39.66	39.53
10	39.62	39.61	39.92	40.12	40.19	40.54	40.60	40.12	39.62	39.63	39.65	39.52
11	39.61	39.62	39.93	40.16	40.22	40.55	40.53	40.11	39.61	39.90	39.63	39.51
12	39.61	39.62	39.97	40.16	40.34	40.72	40.47	40.09	39.59	39.88	39.60	39.50
13	39.60	39.60	39.96	40.15	40.46	40.75	40.41	40.07	39.58	39.85	39.63	39.48
14	39.60	39.63	39.96	40.32	40.57	40.76	40.34	40.05	39.68	39.84	39.62	39.58
15	39.59	39.63	39.95	40.41	40.61	40.70	40.29	40.03	39.73	39.82	39.61	39.57
16	39.59	39.63	39.94	40.46	40.61	40.61	40.24	40.01	39.84	39.82	39.60	39.56
17	39.58	39.64	39.93	40.43	40.59	40.54	40.20	39.99	39.87	39.81	39.58	39.56
18	39.57	39.65	39.92	40.39	40.56	40.50	40.30	39.97	39.87	39.79	39.64	39.55
19	39.56	39.65	39.91	40.31	40.52	40.42	40.39	39.95	39.85	39.76	39.63	39.49
20	39.56	39.70	40.07	40.30	40.47	40.36	40.40	39.94	39.82	39.75	39.61	39.57
21	39.55	39.71	40.07	40.28	40.42	40.30	40.45	39.92	39.80	39.76	39.60	39.55
22	39.54	39.70	40.08	40.26	40.39	40.23	40.43	39.91	39.78	39.75	39.65	39.54
23	39.54	39.70	40.07	40.24	40.37	40.19	40.37	39.89	39.76	39.77	39.64	39.53
24	39.54	39.71	40.04	40.25	40.31	40.16	40.32	39.88	39.74	39.76	39.63	39.52
25	39.54	39.72	40.06	40.23	40.29	40.14	40.27	39.87	39.75	39.76	39.62	39.51
26	39.56	39.77	40.04	40.21	40.24	40.12	40.23	39.85	39.73	39.75	39.61	39.50
27	39.55	39.81	40.01	40.19	40.16	40.14	40.19	39.85	39.71	39.74	39.60	39.49
28	39.54	39.86	40.00	40.18	40.14	40.32	40.15	39.83	39.69	39.73	39.67	39.48
29	39.54	39.87	39.97	40.15	---	40.56	40.11	39.82	39.67	39.73	39.67	39.49
30	39.63	39.86	39.96	40.14	---	40.71	40.08	39.81	39.65	39.72	39.67	39.48
31	39.62	---	39.94	40.15	---	40.73	---	39.79	---	39.74	39.66	---
MEAN	39.60	39.68	39.95	40.17	40.32	40.44	40.45	40.02	39.73	39.72	39.65	39.54
MAX	39.71	39.87	40.08	40.46	40.61	40.76	40.82	40.33	39.87	39.90	39.74	39.65
MIN	39.54	39.60	39.84	39.92	40.12	40.11	40.08	39.79	39.58	39.50	39.58	39.48

RED RIVER BASIN

07367000 OUACHITA RIVER AT MONROE, LA

LOCATION.--Lat 32°30'19", long 92°07'32", in lot 50, T.18 N., R.3 E., Ouachita Parish, Hydrologic Unit 08040207, near center of span on downstream of bridge on U.S. Highway 80 at Monroe, and 0.4 mi (0.6 km) upstream from Illinois Central Railroad bridge.

DRAINAGE AREA.--15,298 mi² (39,662 km²).

PERIOD OF RECORD.--January 1932 to September 1975. Monthly discharge only for some periods, published in WSP 1311. 1884 to 1891 (gage heights), 1892 to 1927 (gage heights and discharge measurements), and since January 1928 (daily discharges) in reports of Mississippi River Commission. Discharge measurements 1929-38 in reports of Corps of Engineers. Daily gage heights since June 1884 in reports of National Weather Service.

GAGE.--Nonrecording gage read once daily. Datum of gage is 31.40 ft (9.571 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 6, 1937, nonrecording gages at several sites within 0.5 mi (0.8 km) of present site at same datum. Since Jan. 1, 1954, supplemental nonrecording gage 7.7 mi (12.4 km) downstream from base gage read twice daily, at datum 30.10 ft (9.174 m) above mean sea level.

REMARKS.--Stage-discharge relation below 10,000 ft³/s (283 m³/s) affected by operation of locks and dams. Flow regulated by Lake Greason since November 1949 (usable capacity, 330,000 acre-ft or 407 hm³), by Lake Catherine since 1925 (usable capacity, 21,300 acre-ft or 26.3 hm³), by Lake Hamilton since 1932 (usable capacity, 119,560 acre-ft or 147 hm³), by Lake Ouachita since July 1952 (usable capacity, 1,903,000 acre-ft or 2.35 km³), and a series of locks and dams.

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

AVERAGE DISCHARGE.--43 years (1932-75), 18,220 ft³/s (516 m³/s), 13,200,000 acre-ft/yr (16.3 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 101,000 ft³/s (2,860 m³/s) Feb. 2, 3, 1932; maximum gage height, 50.45 ft (15.377 m) May 23, 1958; minimum discharge not determined (pool stage); minimum gage height observed, 12.10 ft (3.688 m) Jan. 3, 1944.

NOTE.--Records for 1976 and 1977 water years are not available in time for inclusion in this report. They will be published in a subsequent report.

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

LOCATION.--Lat 32°10'00", long 92°06'45", on line between NE¼ and SE¼ sec.25, T.14 N., R.3 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 (1.6 km) northwest of Riverton, and 4.0 mi (6.4 km) northwest of Columbia.

DRAINAGE AREA.--15,630 mi² (40,482 km²).

PERIOD OF RECORD.--October 1975 to current year. Gage-height records, April 1972 to December 1975, in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage and gate-position recorder and broad-crested weir, with four radial gates. Datum of gage is 23.91 ft (7.288 m) above mean sea level (levels by Corps of Engineers). Supplementary water-stage recorder on downstream end of lock wall at same site and datum. Auxiliary water-stage recorder (sta 07367640) 4.2 mi (6.8 km) downstream at same datum.

REMARKS.--Records good. Daily discharge above 20,800 ft³/s (589 m³/s) computed using an electronic computer streamflow simulation model. Considerable regulation by five reservoirs in Arkansas and two reservoirs in Louisiana, combined capacity, 3,337,880 acre-ft (4.12 km³/s), and a series of navigation locks and dams.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,100 ft³/s (1,110 m³/s), Apr. 27, 1977, maximum tailwater gage height, 30.54 ft (9.309 m) Mar. 31, 1976; minimum daily, 1,150 ft³/s (32.6 m³/s) Aug. 7-9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,100 ft³/s (1,110 m³/s) Apr. 27, maximum tailwater gage height, 29.19 ft (8.897 m) Apr. 25; minimum daily, 1,180 ft³/s (33.4 m³/s) June 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	6460	4750	3920	11300	14800	27500	37600	2490	3580	1800	1400
2	3450	5960	5820	3530	10200	13300	27300	37400	1570	1750	1900	1840
3	3030	6230	5770	3560	9390	14800	27100	37500	2170	1710	1960	1630
4	2880	6110	6760	3540	8830	17500	27100	36900	2760	2590	1930	2630
5	3170	5570	6390	3740	8420	17700	27400	36200	1420	1380	1990	3950
6	3170	5670	7180	5780	9510	18600	28000	35400	2560	1560	2820	3860
7	2720	6400	6300	4370	10400	19500	28600	34500	2200	1420	1980	2450
8	2730	6260	5400	4170	11500	20100	29100	32300	1180	1430	1870	2170
9	2440	6330	4800	6480	12100	20500	29900	32200	1270	2920	1890	2080
10	2170	4790	6130	7200	12300	21600	30300	31100	1740	3030	2090	2140
11	3370	3580	7240	7610	12300	22800	31200	29900	1320	2720	2210	2300
12	3420	4450	8100	8680	12700	26700	31800	29000	1210	2580	1390	2520
13	2790	4500	8060	10100	13100	26300	32400	28000	1240	2650	1420	1790
14	1290	4750	8510	12700	14100	26800	33200	26600	1640	3660	1740	2110
15	1850	6060	9760	13300	15500	27900	33500	24500	1880	3320	1510	2170
16	3330	6630	10400	14900	16300	28600	34400	22200	1550	2800	1420	1320
17	2560	5560	10900	15600	16900	29500	34500	20700	1850	2720	1440	2020
18	2810	4660	11300	16200	17400	30000	35600	17700	2360	2490	1930	1840
19	2490	5050	11400	16600	17700	30500	35600	14300	2130	2100	3590	2400
20	2830	5750	11800	16500	17800	31100	36300	10900	5830	2110	2990	2820
21	2860	6260	10600	16600	18100	31200	37500	7770	6550	2100	1600	1700
22	2790	6060	8790	16500	18000	31400	37600	5340	6870	2740	2150	2800
23	2820	5930	7910	16500	18100	31400	37500	4200	4090	3230	1290	3120
24	3630	4260	6660	16300	18400	31300	37600	3690	3000	2730	1440	3360
25	3740	2460	7670	16000	17900	30900	37800	2240	1870	3110	1720	3190
26	3470	4290	7140	14900	17500	30500	38300	2190	2080	2900	1290	3120
27	4190	4910	6090	14500	16900	29900	38600	2060	1990	1880	1210	3310
28	5190	5360	5040	14100	16200	29400	38700	1660	1440	1760	1960	3280
29	5440	5010	4280	13500	---	28900	38500	2130	1930	1820	1400	3260
30	6520	4690	4060	13100	---	28300	37900	2580	3750	2190	1340	4590
31	6580	---	4160	12300	---	27900	---	2360	---	2280	1350	---
TOTAL	101310	160000	229170	342780	398850	789770	1000800	611120	73940	75260	56620	77170
MEAN	3268	5333	7393	11060	14240	25470	33360	19710	2465	2428	1826	2572
MAX	6580	6630	11800	16600	18400	31400	38700	37600	6870	3660	3590	4590
MIN	1290	2460	4060	3530	8420	13300	27100	1660	1180	1380	1210	1320
AC-FT	200900	317400	454600	679900	791100	1566000	1985000	1212000	146700	149300	112300	153100
CAL YR 1976	TOTAL	4144950	MEAN	11320	MAX	38700	MIN	1150	AC-FT	8221000		
WTR YR 1977	TOTAL	3916720	MEAN	10730	MAX	38700	MIN	1180	AC-FT	7769000		

07367640 OUACHITA RIVER AT COLUMBIA, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°06'28", long 92°04'27", NE¼SE¼ sec.17, R.4 E., Caldwell Parish, Hydrologic Unit 08040207, on downstream side of bridge on U.S. Highway 165 at Columbia, 2.1 mi (3.4 km) downstream from Bayou de Chene, and 4.2 mi (6.8 km) downstream from Columbia Lock and Dam (sta 07367630).

DRAINAGE AREA.--15,700 mi² (40,700 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 23.91 ft (7.288 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Considerable regulation by five reservoirs in Arkansas and two reservoirs in Louisiana, combined capacity, 3,337,880 acre-ft (4.12 km³), and a series of navigation locks and dams.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 29.57 ft (9.013 m) Mar. 31, 1976; minimum gage height, 9.94 ft (3.030 m) Aug. 23, 1977.

EXTREMES FOR CURRENT YEAR.--Water year 1976: Maximum gage height, 29.57 ft (9.013 m) Mar. 31; minimum gage height, not determined.

Water year 1977: Maximum gage height, 28.35 ft (8.641 m) Apr. 25; minimum gage height, 9.94 ft (3.030 m) Aug. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.26	---	11.89	11.24	15.39	19.28	29.53	11.14	13.43	15.43	10.54	10.54
2	10.14	---	11.70	11.47	15.13	19.01	29.46	11.14	13.03	15.33	10.29	10.49
3	10.07	---	11.72	12.75	14.64	18.76	29.36	10.96	12.57	15.32	10.32	10.26
4	10.01	---	11.69	13.37	13.87	18.43	29.19	10.87	12.20	15.65	10.30	10.66
5	10.29	---	11.60	13.64	13.22	17.98	28.98	10.55	11.94	16.29	10.37	10.72
6	10.15	10.38	11.16	14.13	12.74	17.85	28.72	10.40	12.02	17.21	10.36	10.72
7	10.16	10.60	10.96	14.44	12.24	17.88	28.45	10.53	11.76	17.72	10.19	10.93
8	---	10.73	10.90	14.59	12.13	18.23	28.14	10.57	11.47	18.05	10.14	11.10
9	---	10.74	11.00	14.50	12.85	19.78	27.75	10.83	11.40	18.21	10.17	10.89
10	---	10.76	10.98	14.17	13.52	20.59	27.31	11.37	11.60	18.25	10.19	10.34
11	---	10.31	11.00	13.57	13.92	21.54	26.61	12.09	11.98	18.20	10.20	10.50
12	---	10.60	10.78	13.56	14.05	22.47	25.87	12.35	12.04	17.92	10.24	10.44
13	---	10.33	10.86	13.56	14.08	23.62	25.06	13.26	12.00	17.73	10.22	10.50
14	---	10.36	10.98	13.42	13.88	24.84	24.17	12.77	11.31	17.53	10.22	10.21
15	---	10.50	10.92	12.55	13.34	26.26	23.07	12.67	10.99	17.27	10.25	10.20
16	---	10.39	10.94	11.72	13.06	27.25	21.84	12.60	11.05	16.98	10.24	10.44
17	---	10.73	10.76	11.28	12.76	27.69	20.44	12.92	11.65	16.59	10.66	10.79
18	---	11.00	10.75	11.00	13.90	28.07	18.82	13.12	11.86	16.04	10.34	10.62
19	---	11.03	10.72	11.05	14.76	28.29	17.23	13.29	13.02	14.95	10.31	10.57
20	---	10.70	10.88	11.09	15.29	28.44	15.60	13.47	13.78	13.54	10.62	10.62
21	---	10.35	11.24	10.90	16.54	28.80	14.28	13.32	14.05	12.28	10.72	10.53
22	---	10.48	11.19	10.93	17.69	28.96	13.04	13.19	14.14	11.38	10.74	10.54
23	---	10.62	11.53	10.85	18.06	29.05	12.49	12.50	14.38	10.82	10.64	10.48
24	---	10.48	11.03	11.01	18.50	29.09	12.27	11.79	14.36	10.69	10.54	10.37
25	---	10.61	10.98	11.12	18.86	29.36	12.25	11.68	14.49	10.59	10.25	10.31
26	---	10.59	11.01	12.53	19.28	29.37	12.29	11.61	14.58	10.62	10.48	10.56
27	---	11.02	11.09	13.24	19.49	29.41	11.57	11.76	14.72	10.58	10.44	10.75
28	---	11.19	10.94	14.04	19.56	29.31	11.20	12.30	14.81	10.40	10.46	10.68
29	---	11.46	11.01	14.87	19.46	29.22	10.82	12.81	15.14	10.66	10.55	10.48
30	---	11.60	11.03	15.17	---	29.33	10.86	12.99	15.25	11.00	10.48	10.43
31	---	---	11.11	15.38	---	29.55	---	13.03	---	10.84	10.51	---
MEAN	---	---	11.11	12.81	15.25	24.76	20.89	12.06	12.90	14.65	10.39	10.56
MAX	---	---	11.89	15.38	19.56	29.55	29.53	13.47	15.25	18.25	10.74	11.10
MIN	---	---	10.72	10.85	12.13	17.85	10.82	10.40	10.99	10.40	10.14	10.20

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.15	11.30	10.88		---	14.84	21.24	26.67	10.39	10.64	10.44	10.22
2	10.53	11.11	11.07		---	14.16	21.47	26.55	10.18	10.15	10.51	---
3	10.56	11.14	11.09		12.55	13.66	21.72	26.38	10.31	10.20	10.38	---
4	10.49	11.15	11.37		12.59	19.07	22.01	26.06	10.54	10.35	10.28	---
5	10.52	10.98	11.29		12.10	19.24	22.31	25.64	10.50	10.27	10.33	---
6	10.50	10.91	11.29		12.21	20.01	22.56	25.14	10.41	10.20	10.40	10.41
7	10.37	11.23	11.39		12.45	20.80	22.98	24.52	10.52	10.22	10.30	10.24
8	10.33	11.17	11.01		12.76	21.46	23.42	23.83	10.16	10.23	10.23	10.21
9	10.38	11.27	11.03		13.11	22.05	23.78	23.26	10.22	10.21	10.26	10.28
10	10.31	11.01	11.14		13.24	22.50	24.00	22.67	10.27	10.40	10.26	10.29
11	10.52	10.50	11.39		13.38	22.64	24.17	22.00	10.25	10.66	10.28	10.31
12	10.56	10.50	11.88		13.40	24.20	24.27	21.40	10.21	10.49	10.22	---
13	10.48	10.63	11.95		13.65	24.24	24.38	20.76	10.24	10.39	10.20	---
14	10.18	10.69	12.05		14.02	24.44	24.51	20.06	10.33	10.56	10.31	---
15	10.18	10.97	12.45		14.66	24.76	24.64	19.36	10.27	10.50	10.23	10.36
16	10.51	11.23	12.78		15.19	25.01	24.82	18.53	10.34	10.36	10.28	10.18
17	10.28	11.12	12.90		15.54	25.07	24.94	17.68	10.35	10.30	10.23	10.25
18	10.39	10.76	12.99		15.69	25.03	25.15	16.52	10.45	10.33	10.27	10.23
19	10.37	10.80	13.00		15.78	24.94	25.38	15.06	10.07	10.25	10.49	10.35
20	10.37	10.98	13.24		15.91	24.84	25.59	13.51	10.81	10.29	10.47	10.25
21	10.41	11.09	13.01		16.08	24.66	26.62	12.26	11.25	10.32	10.16	10.15
22	10.44	11.11	12.79		16.10	24.41	27.46	11.30	11.30	10.41	10.45	10.34
23	10.48	11.05	12.45		16.18	24.13	27.90	10.72	10.72	10.44	10.23	10.43
24	10.67	11.02	---		16.32	23.77	28.23	10.59	10.39	10.45	10.16	10.49
25	10.65	10.37	---		16.27	23.33	28.33	10.24	10.38	10.44	10.28	10.39
26	10.52	10.66	---		15.98	22.85	28.27	10.45	10.26	10.45	10.30	10.34
27	10.62	10.97	---		15.73	22.30	28.12	10.38	10.40	10.32	10.22	10.40
28	10.94	10.92	---		15.45	22.01	27.87	10.23	10.28	10.28	10.31	10.39
29	11.04	10.88	---		---	21.45	27.56	10.42	10.33	10.25	10.13	10.54
30	11.44	10.79	---		---	21.15	27.20	10.34	10.35	10.36	10.16	10.93
31	11.36	---	---		---	20.86	---	10.39	---	10.41	10.17	---
MEAN	10.53	10.94	---		---	22.06	25.03	17.84	10.42	10.36	10.29	---
MAX	11.44	11.30	---		16.32	25.07	28.33	26.67	11.30	10.66	10.51	10.93
MIN	10.15	10.37	---		---	13.66	21.24	10.23	10.07	10.15	10.13	---

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: October 1975 to current year.

INSTRUMENTATION.--Water quality monitor since October 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 601 micromhos Nov. 29, 1975; minimum daily, 69 micromhos Mar. 4, 1975.

WATER TEMPERATURES: Maximum, 33.5°C several days during August 1976; minimum, 8.0°C several days during January 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 27...	1800	4520	373	7.1	18.0	60	20	7.8	2.7	B12	<5
NOV 24...	2000	2840	242	7.2	13.0	20	7	12.4	5.5	B100	B130
DEC 15...	1515	10000	287	6.8	9.0	50	8	7.2	--	380	B23
JAN 22...	1500	16600	249	7.1	4.5	45	30	12.0	4.1	B290	--
FEB 17...	0830	16700	218	6.6	8.0	60	30	10.5	3.4	300	--
MAR 09...	1000	20500	184	6.4	13.0	70	30	8.3	--	580	--
APR 13...	1830	--	125	6.9	19.5	100	20	6.5	1.4	440	--
MAY 13...	0900	--	139	6.9	23.0	60	15	5.1	2.3	--	--
JUN 22...	1200	6700	256	6.9	29.5	55	10	5.4	2.2	<5	--
JUL 26...	1120	3200	--	6.5	30.0	80	15	4.1	3.3	<5	--
AUG 09...	1800	1900	346	7.4	33.0	40	50	--	--	<5	--
SEP 07...	1710	--	420	7.4	31.0	20	7	--	2.3	--	--

DATE	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT 27...	--	58	25	18	3.2	44	61	2.5	3.3	41
NOV 24...	--	54	20	17	2.8	27	51	1.6	2.1	42
DEC 15...	--	46	22	14	2.7	31	58	2.0	2.8	29
JAN 22...	B120	37	16	11	2.3	29	61	2.1	2.4	26
FEB 17...	B23	38	19	13	1.3	24	56	1.7	2.3	23
MAR 09...	--	34	18	9.4	2.5	21	56	1.6	2.0	19
APR 13...	>7	28	11	8.0	1.9	13	48	1.1	2.1	20
MAY 13...	B1500	28	10	8.1	1.8	14	50	1.2	1.9	22
JUN 22...	<5	44	11	13	2.8	28	56	1.8	2.6	40
JUL 26...	164	50	16	15	3.0	40	62	2.5	3.0	41
AUG 09...	B20	49	16	15	2.8	43	64	2.7	2.6	40
SEP 07...	20	62	17	19	3.5	49	62	2.7	3.0	55

RED RIVER BASIN

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07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT 27...	0	34	5.2	29	64	.2	6.1	197	--	188
NOV 24...	0	34	4.2	17	41	.2	6.7	140	--	135
DEC 15...	0	24	7.4	15	54	.3	6.0	166	--	140
JAN 22...	0	21	3.3	16	49	.2	7.7	151	--	131
FEB 17...	0	19	9.2	17	40	.1	7.8	129	--	117
MAR 09...	0	16	12	15	33	.0	7.4	103	--	100
APR 13...	0	16	4.0	8.5	22	.0	6.7	88	--	72
MAY 13...	0	18	4.4	7.2	24	.1	7.2	--	97	76
JUN 22...	0	33	8.1	16	40	.1	8.8	134	--	131
JUL 26...	0	34	21	25	59	.1	6.9	205	190	173
AUG 09...	0	33	2.5	23	69	.1	7.3	192	--	183
SEP 07...	0	45	3.5	29	71	.2	7.9	221	--	210

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT 27...	.27	2230	--	1.0	.70	1.7	7.5	.05	4.0	18
NOV 24...	.19	1610	--	.22	.53	.75	3.3	.07	--	0
DEC 15...	.23	4370	--	.44	.57	1.0	4.5	.07	--	63
JAN 22...	.21	6730	--	.25	.57	.82	3.6	.08	6.0	370
FEB 17...	.18	5820	--	.12	.49	.61	2.7	.08	--	700
MAR 09...	.14	5700	--	.18	.50	.68	3.0	.11	--	--
APR 13...	.12	7410	--	.08	.55	.63	2.8	.08	--	--
MAY 13...	.14	5600	24	.11	.70	.81	3.6	.09	7.0	--
JUN 22...	.18	2420	--	.70	.96	1.7	7.3	.12	--	--
JUL 26...	.28	1610	31	.66	.88	1.5	6.8	.12	4.9	--
AUG 09...	.26	980	--	.37	1.0	1.4	6.1	.11	--	--
SEP 07...	.30	1460	--	.47	.19	.66	2.9	.09	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)
OCT 27...	1	1	0	0	50	0	0	0	7	5
JAN 22...	2	1	0	0	10	0	1	1	5	5
MAY 13...	5	1	0	0	<10	3	0	0	6	6
JUL 26...	1	1	0	0	<10	1	0	0	7	7

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)
OCT 27...	810	140	6	0	170	160	.0	.0	0	0
JAN 22...	1400	110	4	0	120	100	.0	.0	0	0
MAY 13...	2100	480	9	3	160	140	.0	.0	0	0
JUL 26...	1700	150	12	2	330	270	.0	.0	0	0

DATE	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
OCT 27...	20	10	--	--	--	--	--	--	--	--
JAN 22...	10	10	--	--	--	--	--	--	--	--
MAY 13...	50	20	1.0	2.1	4.2	2.2	3.4	1.9	.13	.09
JUL 26...	10	10	<2.3	2.0	5.8	2.2	4.6	1.9	.08	.01

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	594	525	393	345	247	242	212	201	190	185	189	165
2	600	533	345	295	272	245	212	205	209	188	193	168
3	528	446	354	315	278	259	211	206	219	208	196	156
4	445	421	323	297	261	251	207	202	250	221	208	156
5	420	377	342	296	256	252	203	191	251	240	216	186
6	373	352	297	281	256	251	190	181	239	220	242	199
7	361	350	302	286	269	252	183	178	220	204	223	179
8	360	356	340	293	285	269	198	182	204	200	199	169
9	365	356	347	329	301	286	214	197	201	196	202	175
10	381	362	322	284	334	303	233	217	206	201	256	179
11	421	381	282	263	335	289	253	235	210	206	250	141
12	452	422	267	244	303	286	248	227	256	208	158	112
13	448	437	244	237	354	301	233	215	358	265	130	103
14	438	404	286	243	339	288	253	235	361	232	132	102
15	448	424	299	288	288	255	190	249	229	196	136	112
16	495	448	304	281	255	224	287	270	209	196	144	117
17	516	499	309	302	226	209	305	276	208	202	---	---
18	510	490	301	277	305	219	392	304	222	202	---	---
19	489	483	278	258	282	311	268	275	294	230	---	---
20	484	461	256	233	304	248	270	222	261	161	---	---
21	458	436	232	217	253	233	271	208	160	139	---	---
22	444	428	226	221	233	210	276	194	139	133	---	---
23	441	433	221	211	210	196	192	166	133	130	---	---
24	434	395	215	209	201	195	166	162	153	153	---	---
25	393	348	221	214	194	184	171	165	173	154	---	---
26	345	323	223	219	196	190	177	171	176	173	---	---
27	354	325	225	221	204	194	184	178	175	170	---	---
28	353	336	225	220	207	203	187	186	171	164	143	142
29	392	354	253	223	207	201	189	179	---	---	150	143
30	390	363	257	247	245	180	184	171	---	---	165	150
31	381	363	---	---	204	197	196	187	---	---	204	167

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	205	189	---	---	---	---	---	---	330	315	399	383
2	189	173	---	---	---	---	---	---	328	313	402	383
3	171	148	---	---	---	---	---	---	328	316	403	382
4	147	136	---	---	---	---	---	---	353	328	401	385
5	---	---	---	---	---	---	---	---	371	354	397	374
6	---	---	---	---	---	---	---	---	378	358	404	393
7	---	---	---	---	---	---	---	---	379	364	409	391
8	---	---	---	---	---	---	---	---	371	353	405	397
9	---	---	---	---	---	---	---	---	356	336	400	392
10	---	---	---	---	---	---	---	---	338	321	398	387
11	---	---	---	---	---	---	---	---	330	314	399	378
12	---	---	---	---	---	---	---	---	321	313	404	384
13	---	---	---	---	---	---	---	---	317	307	405	395
14	---	---	---	---	---	---	---	---	313	304	421	398
15	---	---	---	---	---	---	---	---	312	300	423	415
16	---	---	142	137	---	---	---	---	308	290	429	418
17	---	---	143	138	---	---	---	---	319	297	433	425
18	---	---	154	142	---	---	424	379	306	298	451	432
19	---	---	167	156	---	---	439	427	321	307	467	446
20	---	---	---	---	---	---	444	430	333	321	501	467
21	---	---	---	---	---	---	443	425	334	328	512	489
22	---	---	---	---	---	---	431	403	340	332	518	493
23	---	---	---	---	---	---	425	401	347	335	519	493
24	---	---	---	---	---	---	409	384	354	341	497	465
25	---	---	---	---	---	---	389	370	369	350	471	453
26	---	---	---	---	---	---	370	353	372	350	466	455
27	---	---	---	---	---	---	353	339	378	365	470	459
28	---	---	---	---	---	---	343	334	387	371	472	459
29	---	---	---	---	---	---	337	329	390	377	495	469
30	---	---	---	---	---	---	334	325	394	379	552	501
31	---	---	---	---	---	---	334	318	398	387	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	32.0	30.0
2	---	---	---	---	---	---	---	---	---	---	32.0	30.0
3	---	---	---	---	---	---	---	---	---	---	33.0	30.0
4	---	---	---	---	---	---	---	---	---	---	31.0	30.0
5	---	---	---	---	---	---	---	---	---	---	30.5	30.0
6	---	---	---	---	---	---	---	---	---	---	30.5	30.0
7	---	---	---	---	---	---	---	---	---	---	30.5	29.5
8	---	---	---	---	---	---	---	---	---	---	30.0	29.5
9	---	---	---	---	---	---	---	---	---	---	29.5	28.5
10	---	---	---	---	---	---	---	---	---	30.5	30.0	28.5
11	---	---	---	---	---	---	---	---	32.5	30.0	30.0	28.5
12	---	---	---	---	---	---	---	---	32.5	30.0	30.5	28.5
13	---	---	---	---	---	---	---	---	32.0	29.5	29.5	28.0
14	---	---	---	---	---	---	---	---	31.5	30.0	29.0	27.0
15	---	---	---	---	---	---	---	---	---	30.0	28.0	28.0
16	---	---	---	---	---	---	---	---	---	30.0	29.5	28.0
17	---	---	---	---	---	---	---	---	31.5	30.5	29.0	28.0
18	---	---	---	---	---	---	32.0	30.0	31.0	30.5	29.5	28.0
19	---	---	---	---	---	---	30.0	27.5	31.0	30.5	29.0	28.0
20	---	---	---	---	---	---	32.0	29.5	31.0	30.5	28.5	27.5
21	---	---	---	---	---	---	32.0	29.5	31.0	30.5	29.0	28.0
22	---	---	---	---	---	---	31.5	30.0	32.0	30.0	28.5	27.5
23	---	---	---	---	---	---	31.5	30.5	31.5	30.0	28.5	27.5
24	---	---	---	---	---	---	31.5	30.0	33.0	30.0	28.0	27.5
25	---	---	---	---	---	---	30.5	29.5	32.5	30.5	28.0	27.5
26	---	---	---	---	---	---	---	---	31.0	30.5	28.0	27.5
27	---	---	---	---	---	---	---	---	31.5	30.0	28.0	27.5
28	---	---	---	---	---	---	---	---	31.5	30.0	28.0	27.5
29	---	---	---	---	---	---	---	---	32.0	30.0	28.0	27.5
30	---	---	---	---	---	---	---	---	31.5	30.0	28.0	27.5
31	---	---	---	---	---	---	---	---	31.5	30.0	---	---

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT. 27, 1976 1800 HOURS

PHYTOPLANKTON 18 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	9	50
....NITZSCHIA	9	50

NOV. 24, 1976 2000 HOURS

PHYTOPLANKTON --- NO ORGANISMS REPORTED ---

DEC. 15, 1976 1515 HOURS

PHYTOPLANKTON 63 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...SCENEDESMACEAE		
....SCENEDESMUS	42	67
....TETRASTRUM	8	13
..TETRASPORALES		
...COCCOMYXACEAE		
....ELAKATOTHRIX	8	13
PYRRHOPHYTA		
.DINOPHYCEAE		
..PERIDINIALES		
...PERIDINIACEAE		
....PERIDINIUM	4	7

JAN. 22, 1977 1500 HOURS

PHYTOPLANKTON 370 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	23	6
....DICTYOSPHAERIUM	25	7
....KIRCHNERIELLA	6	2
...SCENEDESMACEAE		
....SCENEDESMUS	26	7
....TETRASTRUM		0
..VOLVOCELES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	38	10
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCONODISCACEAE		
....MELOSIRA	11	3
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	2	1
...GOMPHONEMACEAE		
....GOMPHONEMA	2	1
...NAVICULACEAE		
....NAVICULA	6	2
...NITZSCHIA		
....NITZSCHIA	36	10
CHRYSTOPHYCEAE		
...CHRYSOMONADALES		
....OCHROMONADACEAE		
....DINOBRYON	2	1
....OCHROMONAS	2	1

JAN. 22, 1977 1500 HOURS - Continued

PHYTOPLANKTON 370 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CYANOPHYTA		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIA		
....LYNGBYA	23	6
....OSCILLATORIA	160	43
EUGLENOPHYTA		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOCHRYSIDACEAE		
....CHROOMONAS	6	2
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	2	1
....TRACHELOMONAS	2	1

FEB. 17, 1977 0830 HOURS

PHYTOPLANKTON 700 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....CHARACIUM	5	1
...OOCYSTACEAE		
....ANKISTRODESMUS	64	9
....OOCYSTIS	64	9
...SCENEDESMACEAE		
....SCENEDESMUS	100	14
....TETRADESMUS	21	3
..VOLVOCELES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	11	2
...PHACOTACEAE		
....PTEROMONAS	11	2
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCONODISCACEAE		
....CYCLOTELLA	90	13
....MELOSIRA	230	33
..PENNALES		
...EUNOTIACEAE		
....EUNOTIA	5	1
...FRAGILARIACEAE		
....ASTERIONELLA	21	3
....SYNEDRA	21	3
...NITZSCHIA		
....NITZSCHIA	53	8
PYRRHOPHYTA		
.DINOPHYCEAE		
..PERIDINIALES		
...GLENODINIACEAE		
....GLENODINIUM		1

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 27...	43	486	87	MAY 13...	38	2800	86
NOV 24...	17	196	100	JUN 22...	19	352	76
DEC 15...	29	764	84	JUL 26...	51	399	88
JAN 22...	38	1690	100	AUG 09...	64	327	83
MAR 09...	60	3320	96	SEP 07...	64	423	77
APR 13...	42	3540	95				

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 32°58'25", long 91°26'25", in NE¼NE¼ 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 (3.2 km) downstream from Arkansas-Louisiana State line, and 7.5 mi (12.1 km) southwest of Kilbourne.

DRAINAGE AREA.--785 mi² or 2,033 km² (see REMARKS).

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (annual maximum gage height and discharge below 200 ft³/s or 5.664 m³/s only). Gage-height record and occasional discharge measurements since May 1946 in files of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 74.11 ft (22.589 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 31, 1957, nonrecording gage, Dec. 31, 1957, to Oct. 1, 1961, water-stage recorder on left bank 300 ft (91 m) upstream at same datum. May 4, 1959, to Dec. 4, 1962, auxiliary nonrecording gage and Dec. 5, 1962, to Apr. 6, 1969, auxiliary water-stage recorder 1.7 mi (2.7 km) downstream from base gage at datum 74.35 ft (22.662 m) above mean sea level.

REMARKS.--Records poor. Diversions above and below station for irrigation. Diversions between gage and control May to August. At times all flow past gage is diverted before reaching control. Daily discharge is that passing the control. 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 station Bayou Lafourche near Crew Lake and Boeuf River near Girard (sta 07369000 and 07368000).

AVERAGE DISCHARGE.--11 years (1958-68), 952 ft³/s (26.96 m³/s), 689,700 acre-ft/yr (850 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 23.41 ft (7.135 m) about Mar. 17, 1973; no flow at times in 1966, 1974, and 1977, result of pumping for irrigation.
Maximum discharge, 16,500 ft³/s (467 m³/s) Feb. 11, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 22.8 ft (6.949 m) was reached Feb. 15, 1948 (from records of Corps of Engineers, Vicksburg district).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.25 ft (6.172 m) Mar. 5; minimum discharge, no flow May 25, 26, June 4-14, June 27 to July 11, 1977, result of pumping for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148			116	152	119		128	16	0		122
2	109			114	133	106		153	6.0	0		113
3	88		192	127	130				2.6	0	178	106
4	76		159	162	142				0	0	169	106
5	70		135		145			196	0	0	130	107
6	82		159		138			158	0	0	95	118
7	68	195			145			156	0	0	77	118
8	61	173			124			151	0	0	83	104
9	61	135			109			140	0	0	81	101
10	60	114			100			123	0	0	60	125
11	60	100			100			106	0	0	42	149
12	58	90						95	0		38	136
13	58	78						83	0		57	122
14	56	82					186	70	0		66	123
15	54	78					162	77	10	138	80	130
16	56	74					141	80		122	80	127
17	53	72	180		170		134	58		97	78	116
18	47	70	152		152		141	30		82		125
19	50	76			135			20		52		160
20	51	90			119			11		28		
21	49	100			138			15	143	72		
22	50	150			138			17	84	169		176
23	60	199	199		133	188		8.4	56	145	186	136
24	135	180	177		127	167		3.6	27	147	151	118
25		138			188	160		0	13	174	145	113
26		130			192	156		0	120	141	149	104
27		180			156	151	199	59	0	141	147	95
28					124		160	112	0		153	95
29					---		141	101	0		169	102
30			156	199	---		130	71	0		156	98
31			119	184	---		---	47	---		140	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	47	70	119	114	100	106	130	0	0	0	38	96

CAL YR 1976 MIN 6.0
WTR YR 1977 MIN 0

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.64	---	2.08	---	1.69	1.58	2.16	1.39	.04	-2.36	2.23	1.35
2	1.50	---	1.88	---	1.63	1.53	1.87	1.52	-.40	-2.28	1.89	1.30
3	1.41	---	1.76	---	1.62	4.70	1.76	1.87	-.57	-1.75	1.63	1.25
4	1.35	---	1.67	---	1.66	18.94	4.90	1.91	-.92	-1.41	1.59	1.25
5	1.32	---	1.60	---	1.67	20.18	9.76	1.70	-1.24	-.95	1.40	1.26
6	1.38	---	1.67	---	1.65	18.25	9.57	1.54	-1.29	-.58	1.18	1.33
7	1.31	---	2.14	---	1.67	12.09	6.95	1.53	-1.25	-.84	1.03	1.33
8	1.27	---	3.03	---	1.60	4.46	3.92	1.51	-1.43	-1.35	1.08	1.24
9	1.27	---	2.89	---	1.54	3.07	2.64	1.45	-1.68	-1.49	1.06	1.22
10	1.26	---	2.30	---	1.50	2.61	2.24	1.36	-1.74	-1.22	.85	1.37
11	1.26	---	2.02	---	1.50	2.63	2.00	1.25	-1.75	-1.07	.63	1.50
12	1.25	---	2.19	---	2.45	11.95	1.83	1.18	-1.76	2.60	.57	1.43
13	1.25	---	2.39	---	2.67	11.15	1.74	1.08	-1.95	2.21	.82	1.35
14	1.24	---	2.32	9.36	2.84	6.68	1.66	.96	-1.80	1.77	.92	1.36
15	1.23	---	2.10	10.95	2.34	3.73	1.56	1.03	-1.20	1.44	1.05	1.40
16	1.24	---	1.88	8.15	1.94	2.68	1.46	1.05	3.44	1.35	1.05	1.38
17	1.22	---	1.73	5.71	1.74	2.32	1.42	.83	3.30	1.19	1.04	1.32
18	1.18	---	1.65	3.46	1.69	2.17	1.46	.42	2.72	1.07	1.98	1.37
19	1.20	---	2.09	2.40	1.64	2.04	2.55	.17	2.38	.76	2.22	1.55
20	1.21	---	3.88	2.03	1.58	2.08	3.17	-.15	1.91	.37	2.24	1.93
21	1.19	---	---	2.03	1.65	1.90	11.93	-.01	1.47	.98	1.95	1.81
22	1.20	---	---	1.97	1.65	1.80	9.71	.07	1.09	1.59	1.77	1.62
23	1.26	1.78	---	1.92	1.63	1.67	4.73	-.28	.81	1.48	1.66	1.43
24	1.60	1.73	---	3.08	1.61	1.58	3.55	-.52	.35	1.49	1.51	1.33
25	---	1.61	---	3.10	1.79	1.55	2.50	-.82	-.06	1.61	1.48	1.30
26	---	1.58	---	3.05	1.80	1.53	1.94	-.90	-.69	1.46	1.50	1.24
27	---	1.73	---	2.57	1.70	1.51	1.71	.84	-1.24	1.46	1.49	1.18
28	---	2.49	---	2.18	1.60	2.05	1.55	1.29	-1.67	1.98	1.52	1.18
29	---	2.97	---	1.92	---	2.85	1.46	1.22	-2.01	2.12	1.59	1.23
30	---	2.43	---	1.82	---	4.08	1.40	.97	-2.28	2.18	1.53	1.20
31	---	---	---	1.78	---	2.94	---	.70	---	2.36	1.45	---
MEAN	---	---	---	---	1.79	5.11	3.50	.84	-.28	.52	1.42	1.37
MAX	---	---	---	10.95	2.84	20.18	11.93	1.91	3.44	2.60	2.24	1.93
MIN	1.18	---	---	---	1.50	1.51	1.40	-.90	-2.28	-2.36	.57	1.18

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958, 1966-72, 1976 to July 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1967 to September 1969.

WATER TEMPERATURES: December 1967 to September 1969.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,040 micromhos Dec. 13, 1967; minimum daily, 42 micromhos Jan. 10, 1968.

WATER TEMPERATURES: Maximum daily, 34.0°C July 15, 16, 18, 19, 24, 1969; minimum daily, 1.0°C Jan. 7, 8, 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORMS (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
DEC 16...	1225	E2E6	339	7.2	8.0	60	100	10.7	3.9	875	430	--
FEB 16...	0945	E250	419	7.5	9.0	55	85	9.6	5.5	848	--	340
MAY 12...	1305	E56	404	7.8	25.0	20	60	7.9	3.3	824	--	--
JUL 27...	0910	E145	479	7.7	26.0	10	20	5.7	4.3	<5	--	8270

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC 16...	100	25	26	9.4	21	29	.9	6.0	92	0	75	9.3
FEB 16...	140	38	37	11	28	30	1.0	4.3	121	0	99	6.1
MAY 12...	130	33	35	11	26	29	1.0	4.2	122	0	100	3.1
JUL 27...	140	33	35	13	37	36	1.4	3.5	132	0	110	4.2

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 16...	22	41	.2	8.5	209	180	.28	.63	1.4	2.0	9.0	.39
FEB 16...	19	53	.1	9.0	236	221	.32	.70	--	--	--	.20
MAY 12...	29	42	.1	12	227	219	.31	1.2	--	--	--	.20
JUL 27...	22	72	.1	10	254	258	.35	.24	--	--	--	.05

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 16...	4	6	0	<10	10	0	7	10	30	9800	0	<10

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)
DEC 16...	60	320	.1	.0	20	20	11	.00	1	.0	0	.00

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
DEC 16...	.0	.00	.0	.0	0	.00	9.2	.00	8.7	.00	3.1	.01

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
DEC 16...	.0	.00	.0	.10	.0	.00	.0	.00	.0	.00	.0	1

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 16...	0	.00	.0	.00	.30	.00

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT. 6, 1976...	1140	22.0	20.0	8.1	JULY 19.....	1400	39.0	32.0	9.5
JAN. 21, 1977...	0900	7.5	2.5	--	AUG. 4.....	1010	34.0	27.0	7.8

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 (0.8 km) east of Girard.

DRAINAGE AREA.--1,226 mi² or 3,175 km² (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 (15.063 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 3, 1955, nonrecording gage at sites within 200 ft (61 m) upstream. Prior to Oct. 1, 1966, at datum 2.20 ft (0.671 m) higher. Auxiliary water-stage recorder 6.4 mi (10.3 km) downstream from base gage at datum 50.00 ft (15.240 m) above mean sea level. Dec. 8, 1952, to Nov. 19, 1962, auxiliary nonrecording gage 8.1 mi (13.0 km) downstream from base gage at different datum. Feb. 15, 1945, to Dec. 8, 1952, auxiliary nonrecording gage, and Nov. 20, 1962, to Dec. 10, 1974, water-stage recorder at present site at datum 0.60 ft (0.183 m) lower.

REMARKS.--Records fair. Large diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou Lafourche basins are connected by canal upstream. In extreme floods, considerable flow from Bayou Bartholomew basin passes this station. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--39 years, 383 ft³/s (10.85 m³/s), 277,500 acre-ft/yr (342 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,070 ft³/s (86.9 m³/s) May 2, 1958; maximum gage height, 21.51 ft (6.556 m) May 6, 1958, present datum; minimum discharge, 9.2 ft³/s (0.26 m³/s) Aug. 21, 1976; minimum gage height, 2.79 ft (0.850 m) June 1, 2, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 7, 1927, reached a stage of 31.7 ft (9.66 m) present site and datum (affected by overflow from Mississippi River).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft³/s (31.4 m³/s) Mar. 7; maximum gage height, 12.25 ft (3.734 m) Mar. 7; minimum discharge, 9.4 ft³/s (0.27 m³/s) June 13, gage height, 3.17 ft (0.966 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	16	28	26	11	90	19	11	23	156	42
2	14	17	15	24	24	11	111	35	11	22	112	40
3	14	16	15	23	24	92	113	57	11	22	95	39
4	14	16	14	22	25	528	113	64	10	23	81	38
5	14	15	14	21	23	855	156	65	11	24	69	37
6	14	15	23	23	22	1050	198	43	11	24	62	37
7	14	14	43	36	21	1100	177	30	10	22	57	38
8	14	14	69	52	21	955	154	24	11	21	51	38
9	14	14	62	117	20	613	120	20	10	34	47	37
10	13	13	44	192	19	330	86	17	9.8	57	42	37
11	13	13	36	229	18	192	58	16	9.7	54	40	40
12	13	13	46	176	21	222	42	15	9.6	51	40	43
13	13	12	63	126	20	289	33	14	9.7	48	40	54
14	12	14	88	165	20	363	27	14	11	54	40	56
15	12	14	72	218	19	304	24	13	10	55	39	52
16	12	13	51	252	18	200	22	12	21	52	37	52
17	12	13	37	222	17	125	20	11	22	47	37	49
18	11	13	28	169	16	91	26	11	22	45	40	46
19	11	13	26	113	14	66	21	11	23	42	40	45
20	11	14	65	87	14	53	44	11	26	40	42	44
21	11	14	102	63	13	46	113	11	29	37	49	42
22	11	13	117	48	12	38	145	11	28	36	52	42
23	11	13	90	42	14	31	207	11	27	34	50	42
24	11	13	62	39	13	26	183	11	29	36	47	43
25	12	13	78	38	12	24	126	12	29	39	46	42
26	11	14	105	39	12	22	85	12	28	44	46	40
27	11	14	115	36	12	22	52	11	28	52	45	40
28	11	15	97	31	11	56	37	11	27	54	44	40
29	13	16	72	30	---	96	27	11	20	50	46	40
30	18	16	51	30	---	106	21	11	24	277	46	40
31	19	---	37	28	---	84	---	11	---	282	44	---
TOTAL	399	425	1753	2719	501	8001	2631	645	549.8	1701	1682	1275
MEAN	12.9	14.2	56.5	87.7	17.9	258	87.7	20.8	18.3	54.9	54.3	42.5
MAX	19	18	117	252	26	1100	207	84	29	282	156	56
MIN	11	12	14	21	11	11	20	11	9.6	21	37	37
AC-FT	791	843	3480	5390	994	15870	5220	1280	1090	3370	3340	2530
CAL YR 1976	TOTAL	30015.0	MEAN	82.0	MAX	1000	MIN	10	AC-FT	59530		
WTR YR 1977	TOTAL	22281.8	MEAN	61.0	MAX	1100	MIN	9.6	AC-FT	44200		

07368000 BOEUF RIVER NEAR GIRARD, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.39	3.73	3.73	4.04	3.85	3.56	4.92	3.86	3.40	3.51	5.92	3.96
2	3.38	3.68	3.71	3.96	3.80	3.55	5.20	4.15	3.39	3.50	5.32	3.93
3	3.37	3.65	3.71	3.95	3.80	4.84	5.21	4.42	3.36	3.49	4.96	3.90
4	3.37	3.65	3.69	3.93	3.82	9.33	5.16	4.70	3.34	3.52	4.68	3.88
5	3.38	3.63	3.68	3.90	3.78	10.94	5.66	4.51	3.35	3.54	4.47	3.87
6	3.40	3.62	3.94	3.95	3.76	11.92	6.09	4.26	3.33	3.54	4.33	3.86
7	3.38	3.59	4.26	4.15	3.76	12.21	5.95	4.07	3.30	3.50	4.20	3.88
8	3.39	3.57	4.55	4.36	3.76	11.74	5.68	3.96	3.30	3.46	4.11	3.88
9	3.39	3.58	4.48	5.39	3.74	10.13	5.24	3.87	3.27	3.78	4.04	3.86
10	3.38	3.57	4.27	6.29	3.72	8.20	4.74	3.80	3.24	4.20	3.97	3.87
11	3.36	3.56	4.15	6.62	3.71	6.81	4.36	3.75	3.21	4.15	3.93	3.92
12	3.36	3.54	4.29	6.20	3.81	7.33	4.13	3.71	3.19	4.11	3.91	3.97
13	3.35	3.54	4.49	5.58	3.81	7.59	3.99	3.68	3.19	4.06	3.91	4.15
14	3.35	3.60	4.77	6.32	3.82	7.91	3.88	3.66	3.26	4.17	3.91	4.19
15	3.35	3.61	4.61	6.68	3.79	7.50	3.82	3.64	3.45	4.18	3.89	4.13
16	3.33	3.59	4.36	6.89	3.77	6.55	3.77	3.61	3.61	4.12	3.86	4.13
17	3.33	3.59	4.18	6.66	3.74	5.63	3.73	3.58	3.61	4.05	3.86	4.07
18	3.33	3.59	4.05	6.09	3.70	4.97	3.86	3.56	3.61	4.01	3.91	4.03
19	3.33	3.59	3.99	5.43	3.66	4.52	3.75	3.53	3.62	3.95	3.91	4.01
20	3.34	3.64	4.58	4.88	3.64	4.32	4.08	3.52	3.66	3.91	3.97	3.99
21	3.34	3.65	4.96	4.49	3.62	4.18	5.37	3.52	3.67	3.87	4.07	3.96
22	3.33	3.64	5.17	4.23	3.62	4.06	5.70	3.51	3.69	3.83	4.13	3.95
23	3.35	3.64	4.88	4.11	3.66	3.95	6.24	3.49	3.70	3.80	4.10	3.96
24	3.34	3.64	4.54	4.07	3.64	3.87	6.06	3.49	3.69	3.82	4.05	3.97
25	3.38	3.64	4.80	4.05	3.62	3.82	5.40	3.51	3.67	3.90	4.02	3.95
26	3.38	3.67	5.19	4.07	3.62	3.77	4.81	3.50	3.65	4.00	4.02	3.93
27	3.37	3.65	5.31	4.01	3.59	3.77	4.41	3.48	3.62	4.12	4.01	3.91
28	3.37	3.71	5.03	3.93	3.57	4.37	4.18	3.46	3.60	4.17	3.99	3.91
29	3.45	3.75	4.67	3.91	---	4.89	4.02	3.45	3.57	4.10	4.03	3.93
30	3.72	3.75	4.40	3.91	---	5.01	3.91	3.43	3.54	6.44	4.02	3.91
31	3.77	---	4.19	3.89	---	4.71	---	3.42	---	7.15	3.99	---
MEAN	3.39	3.63	4.41	4.84	3.72	6.32	4.78	3.75	3.47	4.06	4.18	3.96
MAX	3.77	3.75	5.31	6.89	3.85	12.21	6.24	4.70	3.70	7.15	5.92	4.19
MIN	3.33	3.54	3.68	3.89	3.57	3.55	3.73	3.42	3.19	3.46	3.86	3.86

07368040 BOEUF RIVER SOUTHWEST OF RAYVILLE, LA

LOCATION.--Lat 32°25'40", long 91°49'05", in NE¼ sec.26, T.17 N., R.6 E., Richland Parish, Hydrologic Unit 08050001, on left bank 5 mi (8 km) southwest of Rayville, and 6.4 mi (10.3 km) downstream from gaging station Boeuf River near Girard (sta 07368000).

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1974 to current year (gage heights only). Unpublished records from February 1945 to December 1952, and November 1962 to September 1975 are available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is 50.00 ft (15.240 m) above mean sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.77 ft (4.197 m) Mar. 18, 1975; minimum, 2.63 ft (0.802 m) June 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.70 ft (2.957 m) Mar. 7, 8; minimum, 2.63 ft (0.802 m) June 13.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.83	3.02	3.15	3.49	3.26	3.02	4.12	3.28	2.86	2.85	4.78	3.32
2	2.83	3.02	3.15	3.42	3.24	3.00	4.22	3.55	2.84	2.83	4.38	3.28
3	2.81	3.02	3.15	3.41	3.21	4.09	4.21	3.62	2.81	2.82	4.14	3.30
4	2.81	3.02	3.15	3.39	3.21	7.61	4.13	3.69	2.80	2.86	3.94	3.30
5	2.82	3.02	3.14	3.37	3.19	8.58	4.31	3.67	2.80	2.85	3.81	3.29
6	2.84	3.02	3.27	3.37	3.18	9.34	4.58	3.54	2.79	2.85	3.69	3.28
7	2.82	3.02	3.49	3.47	3.15	9.66	4.57	3.44	2.75	2.83	3.55	3.28
8	2.80	3.01	3.58	3.52	3.15	9.48	4.40	3.37	2.74	2.80	3.47	3.28
9	2.80	3.01	3.60	4.42	3.15	8.40	4.15	3.31	2.72	2.95	3.41	3.28
10	2.80	3.02	3.55	5.01	3.15	6.90	3.87	3.25	2.69	3.22	3.35	3.28
11	2.80	3.02	3.49	5.19	3.15	5.78	3.65	3.22	2.66	3.26	3.30	3.28
12	2.80	3.02	3.57	5.01	3.18	6.31	3.51	3.18	2.65	3.26	3.28	3.28
13	2.80	3.02	3.65	4.60	3.19	6.26	3.40	3.16	2.64	3.23	3.25	3.40
14	2.80	3.01	3.75	5.30	3.20	6.26	3.33	3.14	2.66	3.24	3.25	3.46
15	2.80	3.01	3.75	5.38	3.19	6.00	3.26	3.10	2.83	3.25	3.22	3.44
16	2.80	3.01	3.64	5.44	3.17	5.33	3.20	3.08	3.02	3.26	3.19	3.45
17	2.79	3.01	3.55	5.31	3.17	4.68	3.15	3.04	3.01	3.24	3.20	3.43
18	2.78	3.01	3.47	4.91	3.14	4.19	3.16	2.99	3.02	3.22	3.23	3.40
19	2.78	3.01	3.42	4.45	3.11	3.83	3.17	2.98	3.03	3.21	3.23	3.39
20	2.78	3.04	3.85	4.10	3.10	3.71	3.39	2.97	3.03	3.20	3.22	3.42
21	2.78	3.06	3.95	3.82	3.09	3.56	4.46	2.97	3.02	3.18	3.24	3.41
22	2.78	3.06	4.07	3.62	3.08	3.46	4.55	2.97	3.00	3.16	3.31	3.38
23	2.78	3.06	4.01	3.52	3.09	3.37	4.75	2.96	3.01	3.16	3.33	3.36
24	2.79	3.06	3.82	3.50	3.10	3.31	4.70	2.95	2.99	3.18	3.31	3.33
25	2.80	3.07	4.08	3.46	3.07	3.29	4.31	2.96	2.97	3.34	3.30	3.33
26	2.80	3.10	4.31	3.44	3.07	3.24	3.96	2.95	2.94	3.46	3.32	3.31
27	2.80	3.11	4.32	3.40	3.06	3.23	3.70	2.93	2.92	3.44	3.35	3.29
28	2.80	3.12	4.18	3.34	3.04	3.76	3.55	2.92	2.92	3.44	3.36	3.27
29	2.82	3.15	3.93	3.28	---	3.98	3.43	2.89	2.90	3.30	3.42	3.27
30	2.97	3.15	3.75	3.28	---	4.00	3.33	2.88	2.88	5.00	3.40	3.28
31	3.01	---	3.60	3.28	---	3.83	---	2.87	---	5.64	3.36	---
MEAN	2.81	3.04	3.66	4.02	3.15	5.21	3.88	3.16	2.86	3.28	3.47	3.34
MAX	3.01	3.15	4.32	5.44	3.26	9.66	4.75	3.69	3.03	5.64	4.78	3.46
MIN	2.78	3.01	3.14	3.28	3.04	3.00	3.15	2.87	2.64	2.80	3.19	3.27

07368500 BIG COLEWA BAYOU NEAR OAK GROVE, LA

LOCATION.--Lat 32°47'55", long 91°30'05", in NE¼ sec.24, T.21 N., R.9 E., West Carroll Parish, Hydrologic Unit 08050001, on downstream side near center of bridge on State Highway 2, 0.1 mi (0.2 km) downstream from Little Colewa Bayou, and 8 mi (13 km) southwest of Oak Grove.

DRAINAGE AREA.--42 mi² or 109 km² (see REMARKS).

PERIOD OF RECORD.--October 1949 to September 1977 (discontinued). Daily elevations since October 1940 in reports of Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WSP 1241: Drainage area. WDR LA-76-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Auxiliary water-stage recorder 5.7 mi (9.2 km) downstream from base gage at same datum. See WSP 1731 for history of changes prior to Jan. 11, 1955.

REMARKS.--Records poor. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

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

AVERAGE DISCHARGE.--28 years, 51.1 ft³/s (1.447 m³/s), 37,020 acre-ft/yr (45.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft³/s (58.1 m³/s) Mar. 22, 1955; maximum elevation, 95.22 ft (29.023 m) Jan. 4, 1951 (present datum); no flow at times each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known since 1940, 95.5 ft (29.11 m) Apr. 12, 1947, present datum, from records of Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 957 ft³/s (27.1 m³/s) Mar. 5; maximum elevation, 93.10 ft (28.377 m) Mar. 5; no flow Oct. 1-5, June 4-15, 29, 30, July 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.1	1.6	1.1	2.0	.85	11	2.3	.02	0	7.6	.02
2	0	.73	.98	.85	1.9	.79	19	3.4	.02	1.5	3.5	.02
3	0	.45	.61	1.2	2.0	235	10	10	.01	.47	1.7	.01
4	0	.31	.50	2.1	2.2	913	118	6.2	0	12	.61	.01
5	0	.23	.35	4.2	2.3	946	168	2.9	0	5.5	.26	.01
6	.03	.16	4.7	47	2.1	700	92	1.6	0	3.6	.16	.01
7	.07	.20	30	188	1.6	350	19	1.2	0	2.4	.12	.01
8	.10	.13	14	76	1.5	151	6.4	.83	0	1.5	.10	.01
9	.10	.13	4.7	280	1.4	72	3.7	.55	0	6.4	.04	.01
10	.10	.16	2.4	314	1.3	19	2.3	.34	0	7.2	.02	.01
11	.10	.16	1.7	165	1.4	19	1.8	.30	0	4.5	.01	.01
12	.07	.20	15	46	5.3	189	1.4	.26	0	3.2	.01	.01
13	.03	.16	37	23	15	103	1.1	.22	0	2.2	.01	.01
14	.03	.27	16	279	11	23	1.1	.22	0	4.5	.02	.01
15	.03	.35	5.9	215	5.5	9.9	1.1	.18	0	4.1	.04	.02
16	.03	.61	2.5	91	3.2	6.3	.91	.18	2.6	25	.04	.02
17	.03	.50	1.4	24	2.4	4.7	.83	.18	6.0	15	.04	.02
18	.03	.35	.79	12	1.6	3.9	.75	.16	4.6	6.0	25	.02
19	.07	.31	1.3	6.3	1.5	4.8	.68	.12	3.1	3.5	22	.02
20	.07	.40	271	4.8	1.3	50	7.0	.12	1.9	2.1	22	.02
21	.07	.40	191	3.8	.91	25	286	.12	1.0	4.6	12	.02
22	.03	.45	59	3.3	.79	10	210	.10	.68	8.2	6.4	.01
23	.03	.50	14	3.1	1.0	6.0	82	.10	.30	5.0	3.3	.01
24	.03	.45	4.4	20	1.4	4.7	15	.08	.18	3.0	1.6	.01
25	.13	.35	64	27	1.4	3.9	6.0	.08	.08	2.5	.49	.01
26	.31	.45	138	16	1.1	3.1	3.6	.08	.04	3.4	.26	.01
27	.35	.73	41	9.8	.98	2.6	2.5	.06	.02	1.8	.10	.01
28	.27	1.6	16	5.5	1.0	60	2.1	.04	.01	.91	.10	.02
29	.16	4.0	6.3	3.2	---	78	2.1	.04	0	4.0	.08	.02
30	.61	3.5	3.1	2.4	---	20	2.2	.04	0	27	.04	.04
31	1.8	---	1.9	2.2	---	7.8	---	.02	---	22	.02	---
TOTAL	4.68	19.34	951.13	1876.85	75.08	4022.34	1077.57	32.02	20.56	239.61	107.67	.44
MEAN	.15	.64	30.7	60.5	2.68	130	35.9	1.03	.69	7.73	3.47	.015
MAX	1.8	4.0	271	314	15	946	286	10	6.0	47	25	.04
MIN	0	.13	.35	.85	.79	.79	.68	.02	0	0	.01	.01
AC-FT	9.3	38	1890	3720	149	7980	2140	64	41	475	214	.9

CAL YR 1976 TOTAL 14893.64 MEAN 40.7 MAX 671 MIN 0 AC-FT 29540
WTR YR 1977 TOTAL 8427.29 MEAN 23.1 MAX 946 MIN 0 AC-FT 16720

RED RIVER BASIN

07368500 BIG COLEWA BAYOU NEAR OAK GROVE, LA--Continued

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81.56	82.16	82.21	82.16	82.16	82.00	82.79	82.06	81.69	81.58	82.55	81.72
2	81.55	82.10	82.14	82.12	82.15	81.99	83.21	82.17	81.68	82.37	82.18	81.71
3	81.60	82.05	82.08	82.17	82.16	85.87	82.75	82.75	81.66	84.25	82.00	81.70
4	81.69	82.01	82.06	82.27	82.18	92.92	86.20	82.43	81.64	82.85	81.89	81.70
5	81.74	81.98	82.02	82.41	82.19	93.08	87.76	82.12	81.62	82.37	81.83	81.70
6	81.80	81.95	82.44	83.48	82.17	92.62	85.33	81.99	81.60	82.19	81.80	81.70
7	81.84	81.96	83.40	86.16	82.11	91.02	83.19	81.94	81.59	82.07	81.79	81.70
8	81.90	81.92	82.84	84.42	82.10	87.99	82.45	81.90	81.57	81.98	81.78	81.70
9	81.90	81.92	82.44	87.28	82.09	84.80	82.20	81.86	81.54	82.45	81.74	81.70
10	81.87	81.94	82.29	88.70	82.08	82.90	82.06	81.82	81.54	82.52	81.72	81.70
11	81.84	81.95	82.23	86.15	82.09	82.84	82.01	81.81	81.53	82.28	81.69	81.70
12	81.83	81.96	82.89	83.88	82.40	87.00	81.96	81.80	81.51	82.15	81.69	81.70
13	81.80	81.95	83.64	83.14	82.84	85.20	81.93	81.79	81.50	82.05	81.69	81.70
14	81.80	82.00	82.90	87.59	82.67	83.37	81.93	81.79	81.53	82.28	81.73	81.70
15	81.80	82.02	82.50	86.95	82.41	82.72	81.93	81.78	81.60	82.24	81.75	81.71
16	81.80	82.08	82.30	84.66	82.27	82.44	81.91	81.78	82.09	83.44	81.75	81.72
17	81.80	82.06	82.19	83.20	82.20	82.30	81.90	81.78	82.42	82.99	81.75	81.73
18	81.80	82.03	82.11	82.68	82.12	82.22	81.89	81.77	82.29	82.42	83.26	81.73
19	81.82	82.01	82.15	82.42	82.10	82.31	81.88	81.76	82.14	82.18	83.33	81.73
20	81.84	82.04	87.66	82.34	82.07	84.14	82.27	81.76	82.02	82.04	83.34	81.72
21	81.82	82.04	86.72	82.28	82.01	83.44	88.30	81.76	81.92	82.29	82.86	81.71
22	81.81	82.05	84.13	82.24	81.99	82.74	87.62	81.75	81.88	82.60	82.47	81.70
23	81.81	82.06	82.84	82.22	82.04	82.42	84.83	81.75	81.81	82.33	82.22	81.70
24	81.81	82.05	82.42	83.00	82.09	82.30	83.00	81.74	81.78	82.13	82.05	81.70
25	81.91	82.02	83.92	83.30	82.09	82.22	82.42	81.74	81.74	82.08	81.91	81.70
26	82.01	82.05	85.34	82.88	82.05	82.14	82.19	81.74	81.71	82.17	81.86	81.70
27	82.02	82.10	83.75	82.60	82.03	82.09	82.08	81.73	81.69	82.01	81.81	81.70
28	81.99	82.21	82.91	82.41	82.04	84.41	82.04	81.72	81.66	81.92	81.81	81.71
29	81.96	82.40	82.52	82.27	---	84.76	82.04	81.71	81.62	82.23	81.79	81.73
30	82.08	82.37	82.34	82.20	---	83.25	82.05	81.71	81.60	83.49	81.77	81.77
31	82.23	---	82.24	82.18	---	82.57	---	81.70	---	83.32	81.74	---
MEAN	81.84	82.05	83.02	83.61	82.18	84.58	83.14	81.87	81.74	82.43	82.05	81.71
MAX	82.23	82.40	87.66	88.70	82.84	93.08	88.30	82.75	82.42	84.25	83.34	81.77
MIN	81.55	81.92	82.02	82.12	81.99	81.99	81.88	81.70	81.50	81.58	81.69	81.70

07368505 BIG COLEWA BAYOU NEAR PIONEER, LA

LOCATION.--Lat 32°43'31", long 91°31'34", on line between sec.11 and sec.14, T.20 N., R.9 E., West Carroll Parish, Hydrologic Unit 08050001, near center of span on downstream side of bridge on parish road 5.5 mi (8.8 km) west of Pioneer, and 5.7 mi (9.2 km) downstream from gaging station Big Colewa Bayou near Oak Grove (sta 07368500).

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1973 to September 1977, elevations only (discontinued). Unpublished records from January 1954 to September 1973 available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 91.06 ft (27.755 m) June 9, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 90.81 ft (27.679 m) Mar. 5.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		81.09	81.23	81.00	80.97	80.95	81.91	80.86			81.59	---
2		81.10	81.18	80.96	80.96	80.91	82.21	81.11		82.67	81.17	---
3		81.08	81.12	80.96	80.96	84.48	81.98	81.45		83.45	80.97	---
4		81.04	81.08	81.04	80.95	90.61	85.60	81.47		81.72	80.86	---
5		81.01	81.04	81.22	80.97	90.78	86.94	81.25		81.18	80.79	---
6		80.98	81.62	82.38	80.99	90.50	84.74	81.09		80.95	80.73	---
7		80.98	82.54	85.00	80.97	89.61	82.27	80.97		80.82	80.68	---
8		80.95	81.86	83.37	80.93	87.38	81.48	80.91		80.74		---
9		80.93	81.38	85.50	80.90	84.27	81.21	80.87		80.82		---
10	80.72	80.93	81.19	87.23	80.88	82.04	81.07	80.82		81.50		---
11	80.74	80.94	81.13	85.25	80.88	81.72	81.00	80.78		81.26		---
12	80.74	80.94	82.23	82.86	81.07	85.70	80.95	80.76		81.02		---
13	80.74	80.93	82.89	81.94	81.57	83.99	80.90	80.74		80.91		---
14	80.73	80.96	81.92	85.94	81.52	82.30	80.87	80.72		80.98		---
15	80.72	80.96	81.44	85.69	81.30	81.62	80.84	80.71		81.50		---
16	80.71	80.97	81.20	83.41	81.15	81.32	80.83	80.68		82.09		---
17	80.70	80.97	81.08	82.06	81.04	81.17	80.80			81.72		---
18		80.98	80.99	81.50	80.97	81.08	80.78		80.68	81.28	81.08	---
19		80.98	80.98	81.30	80.91	81.05	80.75		80.80	81.03	82.06	---
20		81.04	85.99	81.18	80.85	81.97	81.05		80.84	80.89	81.82	---
21		81.03	85.69	81.12	80.83	82.20	86.41		80.82	80.80	81.52	---
22		81.01	83.14	81.08	80.82	81.64	86.28		80.80	81.35	81.25	---
23		80.99	81.79	81.07	80.86	81.31	83.78		80.75	81.54	81.07	---
24		80.98	81.36	81.94	80.92	81.14	82.08		80.72	81.20	80.95	---
25		80.97	82.68	82.14	80.91	81.05	81.47		80.68	81.62	80.85	---
26	80.70	81.00	84.01	81.77	80.90	80.99	81.23			81.98	80.79	---
27	80.73	81.02	82.60	81.48	80.91	80.91	81.10			81.84	80.78	---
28	80.75	81.08	81.77	81.29	80.94	82.90	81.01			81.05	80.91	---
29	80.81	81.18	81.39	81.15	---	83.43	80.95			80.90	80.86	---
30	80.94	81.24	81.24	81.06	---	82.15	80.90			82.34	80.78	---
31	81.01	---	81.09	81.01	---	81.53	---		---	82.80	80.71	---
MEAN	---	81.01	81.96	82.42	80.99	83.31	82.11	---	---	---	---	
MAX	81.01	81.24	85.99	87.23	81.57	90.78	86.94	81.47	80.84	83.45	82.06	
MIN		80.93	80.98	80.96	80.82	80.91	80.75					

NOTE.--Below lowest recordable stage of 80.68 ft, Oct. 1-9, 18-25, May 17-31, June 1-17, 26-30, July 1, Aug. 8-17, Sept. 1-3.

07369000 BAYOU LAFOURCHE NEAR CREW LAKE, LA

LOCATION.--Lat 32°29'55", long 91°55'05", in SW¼ sec.36, T.18 N., R.5 E., Ouachita-Richland Parish line, Hydrologic Unit 08050001, near center of span on downstream side of bridge on U.S. Highway 80, 1.1 mi (1.8 km) upstream from Illinois Central Railroad bridge, and 2.5 mi (4.0 km) west of town of Crew Lake.

DRAINAGE AREA.--361 mi² or 935 km² (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 (11.302 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 10, 1944, nonrecording gage, Aug. 10, 1944, to June 5, 1952, water-stage recorder, and June 6 to September 30, 1952, non-recording gage, all at same site at datum 19.00 ft (5.791 m) higher. Since Oct. 1, 1957, auxiliary water-stage recorder 9.5 mi (15.3 km) downstream from base gage at mean sea level datum (sta 07369050).

REMARKS.--Records fair except those for periods of indefinite stage-discharge relation, 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. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

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

AVERAGE DISCHARGE.--39 years, 1,610 ft³/s (45.60 m³/s), 1,166,000 acre-ft/yr (1.44 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,800 ft³/s (759 m³/s) May 2, 1958; maximum gage height, 27.55 ft (8.397 m) Feb. 14, 1966; maximum daily reverse flow not determined; no flow at times in August, September, and October 1952, result of temporary storage due to excavation of channel upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 17,000 ft³/s (481 m³/s) was measured Dec. 24, 1931 (from reports of Corps of Engineers, Vicksburg district).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,000 ft³/s (481 m³/s) Mar. 6, gage height, 25.62 ft (7.809 m); minimum, 21 ft³/s (0.60 m³/s) July 2, gage height, 1.40 ft (0.427 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	850	584	345	367	204	1550	250	53	27	1510	317
2	210	990	405	312	367	190	971	1000	54	22	954	264
3	172	662	309	309	373	2030	606	2000	50	68	637	243
4	148	408	259	325	381	14600	2120	1400	50	65	406	184
5	141	312	222	378	390	16400	5210	750	57	47	298	141
6	155	247	489	682	339	16900	6280	450	56	38	226	139
7	138	236	1790	2930	309	16700	5660	300	82	34	171	155
8	121	197	1650	2730	285	13600	3420	300	63	39	143	161
9	118	170	1620	3220	253	7010	1400	300	52	347	119	134
10	116	170	930	7550	230	1220	580	470	57	1580	104	125
11	116	174	578	5240	248	2120	400	282	54	1580	94	146
12	114	153	1380	2550	917	9880	350	184	47	721	96	161
13	112	132	3180	1570	2480	12500	300	173	56	866	104	157
14	109	141	2370	6300	2460	10600	300	159	89	658	105	177
15	109	135	1450	8680	1520	5810	250	157	138	429	101	177
16	115	126	854	5940	898	2620	250	144	518	545	106	197
17	109	103	425	4960	476	1160	250	125	1440	464	125	188
18	100	91	328	3260	376	800	270	102	1200	274	277	175
19	100	96	302	1340	334	600	422	90	738	163	987	159
20	104	120	3160	906	290	500	1040	82	518	117	1080	238
21	102	116	5160	768	269	400	5540	89	328	102	870	356
22	100	121	2270	870	258	350	8860	90	165	139	620	336
23	97	137	797	710	264	350	6370	83	92	206	470	246
24	112	179	609	1040	271	300	3380	74	74	197	470	159
25	118	199	1190	2100	253	300	1320	66	59	743	353	133
26	124	204	3110	2170	288	300	800	76	44	2620	314	125
27	749	210	2110	1870	301	314	600	83	36	1000	356	115
28	1820	279	1160	1320	230	1950	500	76	36	497	458	199
29	2000	760	858	648	---	2350	350	68	28	485	453	466
30	1280	878	536	464	---	1830	300	60	29	891	404	120
31	644	---	425	412	---	1670	---	57	---	1980	376	---
TOTAL	9821	8598	40510	71899	15427	145558	59649	9540	6263	16944	12787	5893
MEAN	317	287	1307	2319	551	4695	1988	308	209	547	412	196
MAX	2000	990	5160	8680	2480	16900	8860	2000	1440	2620	1510	466
MIN	97	91	222	309	230	190	250	57	28	22	94	115
AC-FT	19480	17050	80350	142600	30600	288700	118300	18920	12420	33610	25360	11690
CAL YR 1976 TOTAL	497077			1358	MAX 15900	MIN 91	AC-FT 986000					
WTR YR 1977 TOTAL	402889			MEAN 1104	MAX 16900	MIN 22	AC-FT 799100					

NOTE.--Periods of indefinite stage-discharge relation: Mar. 18-26, Apr. 11-18, Apr. 26 to May 9.

07369000 BAYOU LAFOURCHE NEAR CREW LAKE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.86	4.80	4.07	3.19	3.34	2.72	7.80	7.95	1.73	1.47	7.00	2.93
2	2.58	5.15	3.44	3.05	3.34	2.66	7.55	9.32	1.74	1.41	5.87	2.75
3	2.37	4.29	3.04	3.04	3.36	6.52	6.35	10.08	1.70	1.86	4.42	2.68
4	2.23	3.45	2.82	3.11	3.39	23.93	8.46	8.81	1.70	1.84	3.54	2.49
5	2.19	3.05	2.64	3.33	3.42	25.21	13.50	7.46	1.77	1.67	3.12	2.32
6	2.27	2.76	3.52	4.26	3.24	25.55	15.52	6.42	1.75	1.58	2.83	2.31
7	2.17	2.72	7.03	9.14	3.13	25.46	15.20	5.45	1.98	1.54	2.58	2.38
8	2.06	2.51	6.60	8.98	3.04	24.68	12.29	4.62	1.82	1.59	2.42	2.41
9	2.04	2.36	6.54	10.93	2.92	21.70	8.90	4.28	1.72	2.84	2.27	2.28
10	2.03	2.36	5.00	17.45	2.83	16.10	7.18	3.70	1.76	6.45	2.16	2.23
11	2.03	2.38	4.05	16.23	2.90	14.05	6.49	3.03	1.74	6.45	2.08	2.34
12	2.01	2.26	5.87	12.28	4.82	21.62	6.02	2.63	1.67	4.46	2.10	2.41
13	2.00	2.13	9.76	9.17	8.26	23.54	5.67	2.58	1.75	4.84	2.16	2.39
14	1.98	2.19	8.50	14.88	8.21	22.86	5.48	2.51	2.04	4.28	2.17	2.47
15	1.98	2.15	6.58	19.08	6.34	19.42	5.36	2.50	2.39	3.56	2.14	2.47
16	2.02	2.09	4.81	18.06	4.92	14.23	5.30	2.43	3.84	3.95	2.18	2.54
17	1.98	1.94	3.52	15.26	3.72	11.88	5.30	2.31	6.18	3.68	2.31	2.51
18	1.92	1.86	3.12	12.18	3.37	10.72	5.35	2.15	5.64	3.00	2.98	2.46
19	1.92	1.84	3.01	8.90	3.22	9.66	5.62	2.05	4.51	2.53	5.14	2.40
20	1.95	2.05	9.08	6.80	3.06	9.05	7.37	1.98	3.86	2.26	5.36	2.67
21	1.93	2.03	13.01	5.55	2.98	8.25	14.68	2.04	3.20	2.15	4.77	3.06
22	1.92	2.06	9.45	4.85	2.94	7.37	19.42	2.05	2.54	2.40	3.95	2.99
23	1.90	2.16	5.65	4.43	2.96	6.65	17.91	1.99	2.07	2.73	3.45	2.69
24	2.00	2.41	4.14	5.28	2.99	5.98	13.65	1.92	1.92	2.69	3.45	2.40
25	2.04	2.52	5.46	7.50	2.92	5.32	11.33	1.85	1.78	4.14	3.05	2.28
26	2.08	2.55	9.74	7.64	3.05	4.74	10.41	1.93	1.64	8.60	2.92	2.23
27	4.54	2.58	8.90	7.04	3.10	4.40	9.86	1.99	1.56	5.70	3.06	2.18
28	6.95	2.91	6.48	5.91	2.83	7.89	9.41	1.93	1.56	3.90	3.41	2.48
29	7.31	4.57	4.82	4.25	---	10.00	8.87	1.86	1.48	3.85	3.39	3.43
30	5.82	4.87	3.92	3.68	---	8.05	8.34	1.79	1.49	5.45	3.22	2.21
31	4.24	---	3.52	3.50	---	7.70	---	1.76	---	7.46	3.12	---
MEAN	2.69	2.77	5.74	8.35	3.74	13.16	9.49	3.66	2.35	3.56	3.31	2.51
MAX	7.31	5.15	13.01	19.08	8.26	25.55	19.42	10.08	6.18	8.60	7.00	3.43
MIN	1.90	1.86	2.64	3.04	2.83	2.66	5.30	1.76	1.48	1.41	2.08	2.18

RED RIVER BASIN

07369050 BAYOU LAFOURCHE NEAR ALTO, LA

LOCATION.--Lat 32°23'50", long 91°59'40", in SE¼ sec.6, T.16 N., R.5 E., Ouachita-Richland Parish line, Hydrologic Unit 08050001, at bridge on State Highway 15, 8 mi (13 km) west of Alto, 9.5 mi (15.3 km) downstream from gaging station Bayou Lafourche near Crew Lake (sta 07369000), and 40 mi (64 km) upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1973 to current year (elevations only). April 1946 to September 1973 published in reports of Corps of Engineers.

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

COOPERATION.--Elevations furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 61.46 ft (18.733 m) May 9, 1975; minimum, not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since April 1946, 63.8 ft (19.45 m) Apr. 23, 1947; minimum, 34.82 ft (10.613 m) July 18, 19, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 59.22 ft (18.050 m) Mar. 7; minimum, 33.37 ft (10.171 m) July 8.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.71	38.20	38.34	37.42	38.30	36.77	43.31	44.51	34.87	33.75	41.91	36.42
2	36.37	38.93	37.55	36.98	37.33	36.70	43.62	45.63	34.81	33.60	41.09	36.22
3	36.12	38.22	37.00	37.00	37.44	40.24	42.56	45.93	34.98	34.05	39.45	36.20
4	35.94	37.22	36.67	37.24	37.90	57.48	43.65	44.91	34.90	34.98	38.25	36.30
5	35.89	36.69	36.44	37.48	37.70	58.75	47.66	43.83	34.99	34.82	37.50	36.08
6	35.88	36.56	37.02	38.13	37.40	59.06	49.66	42.85	34.99	34.52	37.08	35.94
7	35.79	36.39	41.65	43.04	37.12	59.17	49.68	41.86	35.01	34.22	36.63	35.98
8	35.72	36.24	41.20	43.42	36.96	58.96	47.51	41.05	35.10	33.62	36.10	36.06
9	35.69	36.09	40.98	45.91	36.84	57.23	44.86	40.61	34.93	34.95	35.55	35.83
10	35.67	35.99	39.75	51.50	36.74	52.51	43.49	39.71	34.70	40.36	35.41	35.56
11	35.67	35.98	38.70	51.30	36.82	50.13	42.91	38.89	34.68	40.82	35.35	35.73
12	35.66	35.85	39.84	43.07	38.88	56.16	42.46	38.34	34.53	39.00	35.36	35.87
13	35.65	35.71	44.07	45.04	42.27	57.76	42.11	38.01	34.55	38.70	35.64	35.92
14	35.63	35.76	43.19	48.79	42.38	57.51	41.93	37.71	34.97	38.28	35.77	36.08
15	35.64	35.72	41.60	53.12	40.98	54.91	41.81	37.44	35.71	37.38	35.56	36.25
16	35.65	35.67	39.71	52.60	39.60	50.23	41.79	---	37.29	37.62	35.38	36.25
17	35.62	35.53	38.24	50.24	38.08	48.21	41.79	---	39.85	37.68	35.56	36.21
18	35.57	35.43	37.42	47.49	37.50	47.11	41.85	36.49	39.70	36.98	36.15	36.26
19	35.50	35.39	37.08	44.90	37.10	46.06	41.99	36.01	38.42	36.24	38.50	36.18
20	35.50	35.57	41.86	42.78	37.23	45.45	43.87	---	37.65	35.86	39.38	36.15
21	35.52	35.74	47.03	41.42	37.20	44.66	49.17	---	36.95	35.50	39.09	36.51
22	35.51	35.62	44.75	40.34	37.29	43.81	53.51	---	36.00	35.68	38.48	36.89
23	35.55	35.70	41.50	39.38	37.48	43.16	52.81	---	35.38	36.16	37.76	36.81
24	35.62	35.93	39.32	39.66	37.31	42.46	49.45	---	35.10	36.22	37.54	36.52
25	35.67	36.21	39.77	41.50	37.34	41.81	47.58	---	34.85	36.95	36.98	36.21
26	35.67	36.26	44.15	42.08	37.45	41.17	46.88	---	34.66	42.35	36.59	35.95
27	37.10	36.35	44.15	41.58	37.30	40.73	46.41	---	34.70	40.10	36.59	35.86
28	40.48	36.46	42.00	40.68	37.04	43.06	45.97	---	34.62	38.20	37.16	35.92
29	41.30	37.96	40.23	39.04	---	45.41	45.43	---	34.20	---	37.28	37.22
30	40.33	38.97	38.90	38.10	---	43.31	44.91	---	33.82	37.90	36.86	36.41
31	38.50	---	38.09	37.70	---	43.01	---	34.97	---	40.63	36.67	---
MEAN	36.36	36.41	40.26	43.03	37.96	48.48	45.35	---	35.56	---	37.18	36.19
MAX	41.30	38.97	47.03	53.12	42.38	59.17	53.51	45.93	39.85	42.35	41.91	37.22
MIN	35.50	35.39	36.44	36.98	36.74	36.70	41.79	34.97	33.82	33.60	35.35	35.56

07369150 BOEUF RIVER NEAR FORT NECESSITY, LA

LOCATION.--Lat 32°04'15", long 91°55'40", in NW¼NE¼ sec.35, T.13 N., R.5 E., Caldwell-Franklin Parish line, Hydrologic Unit 08050001, at bridge on State Highway 4 crossing, 6.7 mi (10.8 km) northwest of Fort Necessity, 0.5 mi (0.8 km) downstream from confluence of Bayou Lafourche Cutoff.

DRAINAGE AREA.--2,542 mi² (6,584 km²), arbitrarily determined because of interchange of flow.

PERIOD OF RECORD.--Water years 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
OCT 27...	1700	1100	8.2	15.5	15	35	10.6	4.1	B12	B28	--	260
NOV 25...	1400	936	7.7	15.0	10	30	13.2	6.8	B20	B70	--	200
DEC 15...	1435	699	7.2	9.0	320	45	7.2	2.2	B20	1200	--	100
JAN 22...	1600	132	7.6	4.5	140	120	12.0	5.1	B150	--	2700	39
FEB 17...	0930	635	7.5	10.0	120	50	8.3	5.9	20	--	60	120
MAR 09...	1100	296	6.9	13.0	220	60	5.1	--	--	--	380	46
APR 13...	1930	183	7.1	22.0	140	80	7.0	3.3	200	--	B20	43
MAY 13...	0915	321	7.8	26.0	40	70	8.3	7.5	--	--	200	110
JUN 22...	1330	674	7.7	32.0	5	40	8.2	3.5	<5	--	<5	180
JUL 26...	1120	520	7.3	29.5	50	60	5.6	1.6	B16	--	1300	170
AUG 09...	1900	415	8.2	33.0	30	35	11.1	6.3	B450	--	B230	99
SEP 07...	1900	679	8.1	29.5	100	30	--	3.1	--	--	900	180

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITAS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT 27...	38	64	24	130	52	3.5	4.0	271	0	222	2.7	31
NOV 25...	47	49	18	120	56	3.7	4.6	187	0	153	6.0	23
DEC 15...	0	28	7.3	100	67	4.4	6.1	172	0	141	17	27
JAN 22...	1	10	3.3	8.1	29	.6	3.3	46	0	38	1.8	8.6
FEB 17...	0	33	9.9	78	57	3.1	4.5	159	0	130	8.0	31
MAR 09...	0	13	3.3	42	64	2.7	3.8	100	0	82	20	12
APR 13...	13	9.0	5.0	29	57	1.9	3.3	36	0	30	4.6	6.0
MAY 13...	15	30	9.5	22	29	.9	4.0	121	0	99	3.1	22
JUN 22...	25	45	16	65	44	2.1	3.7	187	0	150	6.0	22
JUL 26...	26	42	15	38	33	1.3	3.4	172	0	140	14	29
AUG 09...	9	25	8.9	42	47	1.8	3.8	110	0	90	1.1	11
SEP 07...	9	46	16	60	41	1.9	4.1	210	0	170	2.7	22

07369150 BOEUF RIVER NEAR FORT NECESSITY, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO ₃) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 27...	200	.2	14	613	601	.83	.08	--	--	--	.14
NOV 25...	180	.2	12	501	499	.68	.11	1.3	1.4	6.2	.10
DEC 15...	120	.6	11	434	385	.59	.88	--	--	--	.45
JAN 22...	12	.1	6.2	86	74	.12	.47	1.3	1.8	7.8	.31
FEB 17...	100	.1	10	371	345	.50	.31	--	--	--	.30
MAR 09...	43	.1	6.0	190	172	.26	.31	--	--	--	.45
APR 13...	53	.1	5.6	143	129	.19	.64	--	--	--	.45
MAY 13...	24	.1	10	207	181	.28	1.3	1.8	3.1	14	.26
JUN 22...	97	.1	12	361	353	.49	.26	--	--	--	.17
JUL 26...	53	.2	10	302	275	.41	.25	1.2	1.5	6.4	.14
AUG 09...	72	.1	9.1	227	226	.31	.02	--	--	--	.15
SEP 07...	96	.2	11	368	359	.50	.01	--	--	--	.19

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
NOV 25...	2	--	0	--	--	0	3	--	30	--	0	--
JAN 22...	2	--	0	--	--	0	6	--	60	--	0	--
MAY 13...	1	9	0	<10	10	0	16	<10	100	4300	4	<10
JUL 26...	2	--	0	--	--	0	6	--	10	--	0	--

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 25...	530	--	.1	--	0	--	6.7
DEC 15...	7	--	--	--	--	--	--
JAN 22...	20	--	.0	--	0	--	13
MAY 13...	80	500	.0	.5	20	20	12
JUL 26...	20	--	.5	--	20	--	6.9

07369150 BOEUF RIVER NEAR FORT NECESSITY, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)
NOV 25...	--	--	.0	--	.00	--	.00	--	.0	--	.00	--
MAY 13...	.00	0	.0	0	.00	.0	.00	.0	.0	0	.00	84

DATE	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)
NOV 25...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--
MAY 13...	.00	93	.00	46	.01	.0	.00	1.6	.00	.0	.00	.0

DATE	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)
NOV 25...	.00	--	.00	--	.00	--	.00	--	.00	--	.00
MAY 13...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 25...	--	.00	.00	--	0	--	.00	--	.33	.18	.00
MAY 13...	.0	.00	.00	.0	0	0	.02	.0	.05	.35	.00

07369205 TURKEY CREEK AT STATE HIGHWAY 15, AT WINNSBORO, LA

LOCATION.--Lat 32°09'15", long 91°42'42", in NW¼ sec.36, T.14 N., R.7 E., Franklin Parish, Hydrologic Unit 08050001, on downstream side of bridge on State Highway 15, at Winnsboro.

DRAINAGE AREA.--28.8 mi² (74.2 km²).

PERIOD OF RECORD.--March 1975 to current year (gage heights and one discharge measurement).

GAGE.--Water-stage recorder. Datum of the gage is 50.11 ft (15.274 m) above mean sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.38 ft (4.078 m) June 12, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.95 ft (3.947 m) Mar. 4; minimum, 1.81 ft (0.552 m) July 24.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.88	2.47	---	---	2.17	2.42	7.54	2.32	2.59	2.61	2.07	2.10
2	1.89	2.45	---	---	2.15	2.44	5.50	3.28	2.61	2.59	1.99	2.11
3	1.91	2.44	---	---	2.63	2.48	5.44	4.14	2.63	2.60	1.94	2.11
4	1.94	2.45	---	---	3.47	12.76	4.68	2.85	2.61	2.60	1.88	2.10
5	1.97	2.45	---	---	3.00	12.22	3.63	2.60	2.67	2.60	1.88	2.12
6	2.04	2.46	---	---	2.60	11.96	2.86	2.44	2.68	2.33	2.02	2.13
7	2.08	2.47	---	---	2.39	11.40	2.59	2.38	2.65	2.31	2.04	2.14
8	2.11	2.48	---	---	2.28	10.91	2.48	2.33	2.67	2.32	2.03	2.14
9	2.16	2.50	---	---	2.20	10.47	2.43	3.04	2.65	2.33	2.03	2.17
10	2.19	2.52	---	---	2.15	9.42	2.39	2.60	2.61	2.79	2.04	2.17
11	2.21	2.53	---	---	2.37	7.11	2.34	2.36	2.61	2.44	2.05	2.15
12	2.23	2.56	---	---	2.60	9.71	2.32	2.32	2.64	2.20	1.95	2.15
13	2.24	2.55	---	---	2.49	6.77	2.34	2.39	2.66	2.08	3.11	2.16
14	2.25	2.57	---	---	2.39	3.80	2.33	2.42	2.79	2.01	2.43	2.18
15	2.26	2.57	---	---	2.27	3.09	2.30	2.45	2.61	1.99	2.18	2.18
16	2.27	2.57	---	---	2.18	2.74	2.33	2.45	2.52	2.00	2.07	2.18
17	2.27	2.57	---	---	2.17	2.62	2.32	3.69	2.52	2.02	2.00	2.18
18	2.28	2.57	---	---	2.22	2.62	2.44	2.41	2.53	2.07	2.00	2.18
19	2.30	2.57	---	---	2.25	2.62	2.65	2.51	2.55	2.12	2.05	2.18
20	2.32	2.58	---	2.25	2.26	2.62	2.43	3.40	2.57	3.26	2.05	2.19
21	2.33	2.59	---	2.20	2.27	2.62	11.05	2.54	2.59	2.22	2.04	2.19
22	2.34	2.58	---	2.16	2.32	2.61	10.77	2.50	2.66	1.98	2.10	2.18
23	2.35	2.58	---	2.14	2.34	2.61	7.98	2.52	2.63	1.84	2.09	2.18
24	2.36	2.55	---	3.17	2.31	2.61	5.14	2.54	2.63	2.22	2.09	2.19
25	2.38	2.44	---	3.21	2.26	2.61	4.20	2.56	2.59	2.84	2.08	2.19
26	2.38	2.32	---	2.74	2.30	2.61	2.89	2.57	2.59	2.23	2.08	2.19
27	2.39	2.26	---	2.50	2.35	2.61	2.58	2.56	2.60	2.00	2.09	2.20
28	2.39	2.34	---	2.38	2.36	4.33	2.54	2.56	2.60	1.91	2.09	2.20
29	2.39	---	---	2.28	---	4.03	2.45	2.57	2.61	1.85	2.10	2.20
30	2.56	---	---	2.19	---	2.92	2.37	2.63	2.61	1.84	2.10	2.20
31	2.50	---	---	2.20	---	2.62	---	2.65	---	2.00	2.10	---
MEAN	2.23	---	---	---	2.38	5.24	3.84	2.66	2.62	2.26	2.09	2.16
MAX	2.56	2.59	---	---	3.47	12.76	11.05	4.14	2.79	3.26	3.11	2.20
MIN	1.88	2.26	---	---	2.15	2.42	2.30	2.32	2.52	1.84	1.88	2.10

07369370 LAKE PROVIDENCE AT LAKE PROVIDENCE, LA

LOCATION.--Lat 32°50'40", long 91°13'25", in sec.13, T.21 N., R.12 E., East Carroll Parish, Hydrologic Unit 08050003, on upstream side of Baxter Bayou bridge on U. S. Highway 65, 3.0 mi (4.8 km) northwest of village of Lake Providence.

DRAINAGE AREA.--18.7 mi² (48.4 km²).

PERIOD OF RECORD.--January 1967 to September 1977 (elevations only, discontinued).

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

REMARKS.--Reservoir is used for recreation and is formed from an oxbow lake by a concrete dam on Tensas River and a weir on Baxter Bayou. Crests of the spillway in the dam and the weir are 89.5 ft (27.3 m) above mean sea level. Reservoir capacity is unknown.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 93.57 ft (28.520 m) Jan. 5, 1972; minimum, 86.40 ft (26.335 m) Nov. 25, 28, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 90.50 ft (27.584 m) Apr. 21; minimum, 86.40 ft (26.335 m) Nov. 25, 28.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87.65	86.67	86.46	87.06	87.93	88.02	89.95	89.96	89.45	89.01	88.88	88.66
2	87.59	86.64	86.45	87.02	87.93	88.02	89.94	89.97	89.43	88.99	88.86	88.64
3	87.54	86.62	86.44	87.04	87.91	88.06	89.94	89.99	89.41	88.98	88.84	88.63
4	87.49	86.61	86.43	87.02	87.94	89.68	89.99	89.97	89.40	88.97	88.83	88.60
5	87.44	86.58	86.43	86.99	87.94	89.99	90.10	89.95	89.37	88.96	88.81	88.61
6	87.42	86.56	86.46	86.97	87.94	90.03	90.07	89.93	89.35	88.94	88.79	88.57
7	87.37	86.54	86.67	87.11	87.94	90.02	90.05	89.91	89.31	88.92	88.77	88.55
8	87.30	86.52	86.66	87.10	87.93	90.00	90.00	89.89	89.27	88.90	88.76	88.54
9	87.25	86.51	86.65	87.28	87.94	89.98	89.99	89.87	89.25	88.91	88.74	88.53
10	87.21	86.49	86.63	87.67	87.94	89.96	89.97	89.83	89.22	88.92	88.72	88.51
11	87.17	86.48	86.62	87.65	87.95	89.96	89.94	89.71	89.20	88.95	88.69	88.50
12	87.14	86.47	86.69	87.61	87.99	90.17	89.92	89.78	89.17	88.93	88.68	88.48
13	87.10	86.45	86.82	87.58	87.99	90.15	89.90	89.77	89.15	88.92	88.67	88.46
14	87.06	86.46	86.81	87.71	88.00	90.12	89.88	89.76	89.17	88.92	88.65	88.45
15	87.03	86.46	86.79	87.76	87.99	90.09	89.86	89.75	89.30	88.90	88.63	88.43
16	87.00	86.45	86.78	87.77	87.99	90.06	89.85	89.73	89.33	88.92	88.61	88.42
17	86.95	86.44	86.75	87.77	87.99	90.02	89.83	89.71	89.31	88.90	88.59	88.40
18	86.91	86.43	86.73	87.78	87.99	90.00	89.81	89.70	89.30	88.89	88.73	88.40
19	86.88	86.42	86.71	87.77	87.98	89.97	89.89	89.68	89.29	88.87	88.85	88.39
20	86.86	86.45	87.05	87.78	87.98	89.97	89.90	89.67	89.27	88.85	88.83	88.39
21	86.82	86.45	87.15	87.78	87.98	89.95	90.42	89.62	89.25	88.90	88.82	88.38
22	86.80	86.44	87.12	87.78	87.98	89.91	90.48	89.60	89.24	88.88	88.81	88.36
23	86.77	86.43	87.09	87.79	88.00	89.90	90.40	89.58	89.21	88.87	88.80	88.35
24	86.77	86.42	87.07	87.86	88.02	89.87	90.31	89.57	89.19	88.86	88.78	88.33
25	86.78	86.41	87.13	87.89	88.02	89.87	90.23	89.55	89.17	88.87	88.77	88.32
26	86.75	86.43	87.26	87.90	88.02	89.86	90.17	89.53	89.14	88.83	88.76	88.30
27	86.71	86.44	87.25	87.91	88.03	89.87	90.11	89.52	89.11	88.86	88.76	88.29
28	86.67	86.46	87.22	87.91	88.03	89.92	90.07	89.51	89.08	88.86	88.74	88.27
29	86.66	86.48	87.18	87.90	---	89.91	90.03	89.50	89.06	88.85	88.73	88.30
30	86.72	86.47	87.15	87.89	---	89.90	90.00	89.49	89.04	88.87	88.71	88.29
31	86.69	---	87.08	87.92	---	89.89	---	89.48	---	88.89	88.69	---
MEAN	87.05	86.49	86.83	87.58	87.97	89.78	90.03	89.73	89.25	88.91	88.75	88.45
MAX	87.65	86.67	87.26	87.92	88.03	90.17	90.48	89.99	89.45	89.01	88.88	88.66
MIN	86.66	86.41	86.43	86.97	87.91	88.02	89.81	89.48	89.04	88.83	88.59	88.27

07369455 BRUSHY BAYOU AT TALLULAH, LA

LOCATION.--Lat 32°23'52", long 91°11'57", on line between secs.31 and 32, T.16 N., R.12 E., Madison Parish, Hydrologic Unit 08050003, at bridge on U.S. Highway 65 at Tallulah, 0.9 mi (1.5 km) upstream from control structure, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1974 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of the gage is at mean sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 75.04 ft (22.872 m) Jan. 9, 1977; minimum, 69.57 ft (21.205 m) Oct. 20, 1975 (regulated).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 75.04 ft (22.872 m) Jan. 9; minimum, 70.30 ft (21.427 m) May 11 (regulated).

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.56	71.34	72.02	74.16	73.17	72.48	72.67	72.99	72.54	72.96	72.56	71.01
2	71.55	71.33	72.10	74.16	73.11	72.48	72.66	72.87	72.67	72.91	72.43	71.01
3	71.54	71.32	72.19	74.21	73.08	72.49	72.94	73.11	72.78	72.93	72.29	71.09
4	71.52	71.31	72.30	74.25	73.03	74.59	73.10	73.03	72.86	72.89	72.17	71.19
5	71.54	71.30	72.36	74.27	72.97	74.61	73.25	72.86	72.93	72.85	72.06	71.31
6	71.48	71.29	72.46	74.28	72.92	74.80	73.21	72.63	72.99	72.81	71.99	71.46
7	71.46	71.28	72.91	74.40	72.85	74.77	73.14	72.31	73.08	72.77	71.92	71.55
8	71.44	71.27	72.96	74.41	72.79	74.80	73.04	71.92	73.11	72.74	71.85	71.66
9	71.43	71.25	72.98	74.89	72.73	74.81	72.91	71.57	73.13	72.72	71.80	71.76
10	71.42	71.25	73.00	74.87	72.67	74.82	72.74	71.02	73.15	73.63	71.84	71.77
11	71.41	71.25	73.00	74.89	72.62	74.82	72.51	70.35	73.16	73.73	71.87	71.78
12	71.39	71.27	73.25	74.36	72.61	74.84	72.21	72.30	73.17	73.66	71.90	71.76
13	71.38	71.26	73.49	74.19	72.59	74.80	71.88	72.88	73.17	73.60	71.95	71.75
14	71.36	71.30	73.55	74.28	72.55	74.78	71.45	73.02	73.19	73.65	71.94	71.75
15	71.35	71.30	73.57	74.11	72.51	74.75	70.97	73.04	73.45	73.65	71.93	71.74
16	71.34	71.30	73.58	74.01	72.48	74.71	72.25	72.99	73.45	73.68	71.91	71.73
17	71.30	71.30	73.58	73.94	72.45	74.60	72.97	72.93	73.43	73.69	71.89	71.72
18	71.29	71.30	73.57	73.86	72.42	74.55	73.16	72.86	73.41	73.70	71.87	71.71
19	71.28	71.29	73.56	73.82	72.40	74.49	73.44	72.79	73.39	73.70	71.87	71.69
20	71.27	71.34	73.68	73.75	72.38	74.45	73.46	72.71	73.37	73.70	71.85	71.74
21	71.26	71.36	73.68	73.70	72.36	74.40	74.48	72.64	73.35	73.77	71.83	71.74
22	71.25	71.39	73.68	73.67	72.34	74.32	74.65	72.57	73.32	73.75	71.86	71.72
23	71.25	71.41	73.67	73.62	72.35	74.26	74.26	72.49	73.29	73.73	71.74	71.71
24	71.23	71.45	73.65	73.62	72.34	74.19	74.14	72.42	73.26	73.72	71.63	71.69
25	71.24	71.52	73.94	73.57	72.34	74.15	74.03	72.34	73.22	73.71	71.50	71.68
26	71.23	71.63	74.14	73.51	72.34	74.09	73.90	72.28	73.18	73.68	71.38	71.67
27	71.21	71.74	74.13	73.46	72.47	74.04	73.75	72.22	73.14	73.70	71.26	71.65
28	71.20	71.83	74.14	73.40	72.48	74.38	73.57	72.17	73.10	73.73	71.14	71.64
29	71.19	71.99	74.15	73.32	---	73.56	73.42	72.14	73.05	73.09	71.06	71.71
30	71.35	72.00	74.17	73.27	---	73.11	73.22	72.14	73.00	72.84	71.03	71.70
31	71.34	---	74.15	73.22	---	72.75	---	72.34	---	72.71	71.02	---
MEAN	71.36	71.41	73.34	73.98	72.62	74.22	73.11	72.45	73.14	73.37	71.79	71.60
MAX	71.56	72.00	74.17	74.89	73.17	74.84	74.65	73.11	73.45	73.77	72.56	71.78
MIN	71.19	71.25	72.02	73.22	72.34	72.48	70.97	70.35	72.54	72.71	71.02	71.01

07369457 LOWER ROUNDWAY BAYOU TRIBUTARY NEAR TALLULAH, LA

LOCATION.--Lat 32°22'33", long 91°11'57", on line between secs.43 and 44, T.16 N., R.12 E., Madison Parish, Hydrologic Unit 08050003, near center of bridge on U.S. Highway 65, 1.5 mi (2.4 km) south of Tallulah.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1974 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 73.62 ft (22.439 m) June 11, 1975; minimum, 64.92 ft (19.788 m) Sept. 7, 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 72.57 ft (22.119 m) Mar. 6; minimum, 64.92 ft (19.788 m) Sept. 7, 8.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.53	66.73	67.02	66.32	---	66.77	---	66.51	67.02	66.93	65.57	66.69
2	66.53	66.71	67.01	66.31	---	66.70	---	66.54	66.87	66.93	65.66	66.70
3	66.54	66.70	67.02	66.47	---	66.72	---	67.74	66.73	66.90	65.85	66.72
4	66.54	66.70	67.03	66.59	---	72.46	---	67.27	66.71	66.89	65.93	66.72
5	66.55	66.70	67.04	66.68	---	72.30	66.86	66.79	66.75	66.91	65.98	66.75
6	66.57	66.71	67.60	66.54	---	72.57	68.49	66.39	66.81	66.93	66.03	64.97
7	66.58	66.72	67.31	67.27	---	72.34	68.15	66.31	66.93	67.02	66.03	64.92
8	66.59	66.73	66.71	66.95	---	72.06	67.69	66.32	66.87	67.04	66.06	64.92
9	66.61	66.75	66.50	69.55	---	71.65	67.16	66.48	66.81	67.13	66.16	65.12
10	66.61	66.76	66.76	69.17	---	71.14	66.56	66.47	66.78	67.61	66.32	65.01
11	66.62	66.78	67.09	68.78	---	70.60	66.34	66.54	66.75	67.60	66.36	64.98
12	66.62	66.81	67.73	68.55	---	70.19	66.45	66.46	66.73	67.16	66.40	65.21
13	66.62	66.82	67.63	68.17	---	69.67	66.53	66.38	66.79	66.63	66.49	65.45
14	66.64	66.86	67.33	68.39	---	69.21	66.62	66.50	66.83	66.21	66.48	65.51
15	66.65	66.87	67.06	68.15	---	68.79	66.69	66.47	67.01	66.31	66.48	65.68
16	66.66	66.86	66.93	67.67	---	---	66.72	66.52	66.72	66.53	66.49	65.84
17	66.66	66.85	66.89	67.13	---	---	66.77	66.55	66.67	66.63	66.50	66.00
18	66.66	66.85	66.93	66.63	---	---	66.80	66.58	66.74	66.63	66.52	65.99
19	66.66	66.85	66.99	66.33	---	---	67.45	66.61	66.76	66.69	66.57	66.12
20	66.68	66.92	67.35	66.25	---	---	67.16	66.62	66.79	66.74	66.59	66.18
21	66.67	66.94	67.24	66.24	---	---	70.13	66.61	66.81	67.10	66.59	66.22
22	66.67	66.93	67.06	66.32	---	---	70.74	66.62	66.84	66.74	66.79	66.28
23	66.68	66.92	66.98	66.44	66.79	---	70.58	66.63	66.87	66.63	66.71	66.37
24	66.68	66.92	66.97	66.82	66.80	---	70.18	66.65	66.89	66.71	66.65	66.41
25	66.71	66.93	67.03	66.77	66.78	---	69.66	66.69	66.89	66.77	66.59	66.41
26	66.71	66.95	68.09	66.59	66.81	---	69.11	66.72	66.90	66.80	66.58	66.44
27	66.71	67.05	67.75	66.55	67.14	---	68.57	66.74	66.90	65.92	66.62	66.45
28	66.71	67.04	67.38	66.56	66.96	---	68.12	66.78	66.91	65.51	66.64	66.45
29	66.71	67.12	66.96	66.74	---	---	67.66	66.80	66.91	65.23	66.68	66.45
30	66.79	67.03	66.51	66.58	---	---	67.01	66.84	66.93	65.23	66.67	66.45
31	66.75	---	66.36	66.55	---	---	---	66.87	---	65.31	66.67	---
MEAN	66.64	66.85	67.11	67.10	---	---	---	66.65	66.83	66.62	66.38	65.98
MAX	66.79	67.12	68.09	69.55	---	72.57	70.74	67.74	67.02	67.61	66.79	66.75
MIN	66.53	66.70	66.36	66.24	---	---	66.34	66.31	66.67	65.23	65.57	64.92

RED RIVER BASIN

07369500 TENSAS RIVER AT TENDAL, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°25'55", long 91°22'00", in NW¼ sec.29, T.17 N., R.11 E., Madison Parish, Hydrologic Unit 08050003, near left bank on upstream side of bridge on U.S. Highway 80 at Tendal, 200 ft (61 m) upstream from Illinois Central Railroad bridge, and 3 mi (5 km) east of Waverly.

DRAINAGE AREA.--309 mi² or 800 km² (see REMARKS).

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

GAGE.--Water-stage recorder. Datum of gage is 50.07 ft (15.261 m) above mean sea level. Prior to July 11, 1944, nonrecording gage at site 1,000 ft (305 m) upstream at same datum. July 11, 1944, to Sept. 14, 1954, nonrecording gage at same site and datum. Auxiliary water-stage recorder 8.5 mi (13.7 km) downstream from base gage at datum 50.07 ft (15.261 m) above mean sea level. Oct. 1, 1957, to Nov. 8, 1962, auxiliary nonrecording gage at present site and datum. See WSP 1711 and 1791 for history of changes prior to Oct. 1, 1957.

REMARKS.--Records poor. Small diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined.

AVERAGE DISCHARGE.--41 years (1936-77), 328 ft³/s (9.29 m³/s), 237,600 acre-ft/yr (293 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,610 ft³/s (131 m³/s) Nov. 19, 1948; maximum gage height, 24.91 ft (7.593 m) June 12, 1975; minimum daily discharge, 2.8 ft³/s (0.079 m³/s) Dec. 8, 1954, but may have been less during period of indefinite stage-discharge relation in October 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 34.02 ft (10.369 m) since May 15, 1927 (affected by overflow from Mississippi River).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,500 ft³/s (99.1 m³/s) Mar. 4, gage height, 22.77 ft (6.940 m), from floodmark; minimum daily discharge, 13 ft³/s (0.37 m³/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	19	23	150	40	30	283	422	23	16	80	23
2	19	18	22	141	38	28	756	350	23	16	70	22
3	19	18	20	107	39	613	767	261	23	16	57	22
4	19	17	18	84	44	3500	753	195	23	16	48	21
5	18	16	16	75	42	3300	810	149	23	16	44	21
6	18	16	20	78	39	2900	646	112	30	16	40	20
7	18	16	46	180	36	2550	450	78	36	15	38	19
8	17	15	109	270	34	2300	305	54	32	16	36	19
9	17	15	105	660	32	2020	204	40	25	17	36	18
10	17	15	88	1350	31	1650	142	34	24	24	34	19
11	17	16	80	1180	30	1310	101	31	23	124	32	18
12	16	16	133	1000	31	1480	73	28	23	157	32	18
13	16	15	220	800	32	1440	58	28	22	122	34	18
14	16	17	240	1200	32	1140	51	27	23	83	32	19
15	16	17	200	1300	31	925	47	26	42	51	30	18
16	16	17	170	1050	30	782	44	26	122	37	29	18
17	16	17	151	900	28	653	43	26	150	33	28	18
18	16	16	104	600	29	545	42	25	114	33	28	16
19	16	16	70	400	30	454	44	24	78	28	29	17
20	16	18	123	300	30	419	150	24	50	24	66	20
21	16	18	230	245	29	377	1500	24	35	74	104	22
22	16	17	230	200	28	292	2700	23	28	215	111	20
23	16	16	190	165	28	212	2120	24	24	191	102	18
24	17	16	160	180	31	158	1630	24	21	136	90	16
25	18	15	230	230	30	122	1210	26	20	94	75	15
26	18	16	800	192	30	92	941	26	19	67	55	14
27	18	16	840	153	32	69	777	24	18	55	39	13
28	18	18	630	115	30	71	629	24	17	49	32	14
29	18	18	420	83	---	122	539	24	17	52	28	15
30	20	20	260	59	---	124	524	24	16	55	26	14
31	20	---	190	46	---	103	---	24	---	70	24	---
TOTAL	538	500	6138	13493	916	29781	18339	2227	1124	1918	1509	545
MEAN	17.4	16.7	198	435	32.7	961	611	71.8	37.5	61.9	48.7	18.2
MAX	20	20	840	1350	44	3500	2700	422	150	215	111	23
MIN	16	15	16	46	28	28	42	23	16	15	24	13
CFSM	.06	.05	.64	1.41	.11	3.11	1.98	.23	.12	.20	.16	.06
IN.	.06	.06	.74	1.62	.11	3.59	2.21	.27	.14	.23	.18	.07
AC-FT	1070	992	12170	26760	1820	59070	36380	4420	2230	3800	2990	1080
CAL YR 1976 TOTAL	91285		MEAN 249	MAX 1890	MIN 15	CFSM .81	IN 10.99	AC-FT 181100				
WTR YR 1977 TOTAL	77028		MEAN 211	MAX 3500	MIN 13	CFSM .68	IN 9.27	AC-FT 152800				

07369500 TENSAS RIVER AT TENDAL, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.90	5.93	6.03	7.87	6.12	5.98	8.39	9.53	5.91	5.77	6.57	5.76
2	5.89	5.91	6.01	7.37	6.09	5.96	11.52	8.79	5.91	5.77	6.42	5.76
3	5.89	5.91	5.96	6.98	6.11	9.60	11.58	8.30	5.91	5.77	6.22	5.75
4	5.89	5.89	5.93	6.67	6.17	---	11.51	7.87	5.91	5.78	6.08	5.74
5	5.88	5.88	5.89	6.54	6.15	---	11.80	7.52	5.91	5.78	6.00	5.74
6	5.89	5.87	5.98	6.59	6.11	---	10.91	7.15	6.03	5.76	5.95	5.74
7	5.87	5.88	6.41	8.46	6.07	---	9.71	6.75	6.16	5.75	5.92	5.72
8	5.86	5.86	7.11	9.31	6.04	---	8.73	6.43	6.07	5.76	5.89	5.72
9	5.86	5.85	7.07	11.43	6.02	20.63	7.97	6.21	5.96	5.79	5.87	5.72
10	5.86	5.85	6.90	15.83	6.00	19.42	7.38	6.11	5.92	5.91	5.84	5.73
11	5.86	5.87	6.81	15.61	5.99	18.11	6.90	6.06	5.91	7.26	5.82	5.72
12	5.86	5.89	7.33	14.33	6.00	18.00	6.51	6.02	5.91	7.60	5.83	5.72
13	5.86	5.87	8.85	13.11	6.01	17.65	6.29	6.01	5.90	7.25	5.86	5.72
14	5.86	5.91	9.12	14.63	6.02	16.48	6.18	5.99	5.92	6.81	5.83	5.76
15	5.86	5.91	8.56	15.83	6.00	15.27	6.12	5.98	6.23	6.38	5.80	5.76
16	5.86	5.91	7.98	14.75	5.98	14.06	6.07	5.97	7.25	6.16	5.78	5.76
17	5.86	5.91	7.48	---	5.96	12.80	6.05	---	7.53	6.09	5.76	5.75
18	5.86	5.90	7.06	---	5.97	11.59	6.03	---	7.17	6.09	5.77	5.74
19	5.86	5.89	6.70	---	5.99	10.45	6.06	5.93	6.75	6.02	5.80	5.75
20	5.87	5.92	7.24	---	5.98	9.77	7.11	5.92	6.37	5.93	6.44	5.83
21	5.87	5.92	9.03	8.85	5.97	9.29	---	5.92	6.13	6.63	6.95	5.87
22	5.87	5.91	9.04	8.25	5.95	8.64	---	5.91	6.01	8.07	7.03	5.84
23	5.87	5.90	8.57	7.77	5.96	8.03	19.55	5.92	---	7.86	6.93	5.80
24	5.88	5.88	8.13	7.80	6.00	7.54	18.36	5.94	---	7.30	6.78	5.77
25	5.90	5.87	9.06	8.10	5.98	7.15	16.96	5.96	---	6.76	6.57	5.74
26	5.90	5.88	12.07	7.87	5.98	6.77	15.72	5.96	---	6.37	6.29	5.73
27	5.90	5.89	12.25	7.49	6.02	6.45	14.52	5.94	---	6.17	6.05	5.71
28	5.89	5.94	11.27	7.09	5.99	6.48	13.27	5.93	---	6.08	5.93	5.73
29	5.90	5.94	10.20	6.68	---	7.15	11.97	5.93	5.79	6.13	5.85	5.75
30	5.96	5.96	9.27	6.37	---	7.18	10.65	5.92	5.77	6.19	5.80	5.72
31	5.95	---	8.51	6.20	---	6.92	---	5.92	---	6.42	5.78	---
MEAN	5.88	5.90	7.99	---	6.02	---	---	---	---	6.37	6.11	5.75
MAX	5.96	5.96	12.25	15.83	6.17	---	---	9.53	7.53	8.07	7.03	5.87
MIN	5.86	5.85	5.89	6.20	5.95	5.96	6.03	5.91	---	5.75	5.76	5.71

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 current year.
WATER TEMPERATURES: October 1967 to September 1968, April 1975 to current year.

INSTRUMENTATION.--Water quality monitor since April 1975.

REMARKS.--The temperature range for the water quality monitor is 5.0°C to 36.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 751 micromhos Nov. 1, 1967; minimum, 43 micromhos Aug. 18, 1975.

WATER TEMPERATURES: Maximum, higher than 36.5°C Aug. 10, Sep. 1, 1977; minimum daily, 4.0°C Jan. 8, 1968.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 2.0°C was observed Jan. 23, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 707 micromhos Nov. 16; minimum, 82 micromhos Apr. 21.

WATER TEMPERATURES: Maximum, higher than 36.5°C Aug. 10, Sep. 1; minimum, lower than 5.0°C Jan. 1-4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORMS (7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
OCT 27...	1500	20	691	8.2	15.5	5	20	10.5	5.9	862	120	--
NOV 25...	1100	15	681	8.0	14.0	5	20	9.3	4.6	<5	836	--
DEC 16...	0930	E180	247	7.6	8.0	100	90	10.6	4.1	B110	B2800	--
JAN 23...	0930	E170	138	7.2	2.0	80	90	8.9	2.5	350	--	2500
FEB 16...	1220	30	472	8.1	11.0	20	30	10.6	6.3	<5	--	812
MAR 09...	1300	2020	88	6.5	13.5	40	60	6.9	--	300	--	830
APR 14...	1010	51	308	7.8	23.0	15	50	9.1	4.8	B50	--	87
MAY 12...	0940	29	408	7.8	24.0	5	30	7.7	3.1	88	--	--
JUN 23...	0900	26	278	7.5	28.5	20	55	4.2	--	<5	--	815
JUL 27...	0815	56	260	7.6	--	90	70	3.3	3.1	<5	--	B310
AUG 10...	0900	34	400	8.1	29.5	5	20	5.7	3.0	B150	--	820
SEP 08...	0935	19	425	8.0	27.5	25	13	--	4.0	--	--	80

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT 27...	290	0	75	25	40	23	3.5	420	0	344	4.2	9.6
NOV 25...	280	0	73	24	38	22	3.3	404	0	331	6.5	11
DEC 16...	95	5	25	7.8	11	19	4.5	109	0	89	4.4	14
JAN 23...	51	3	14	4.0	4.4	15	3.7	59	0	48	6.0	12
FEB 16...	200	0	53	17	23	19	3.7	263	0	216	3.3	17
MAR 09...	33	3	8.5	2.8	3.4	17	3.0	36	0	30	18	4.9
APR 14...	130	0	35	11	13	17	4.0	168	0	138	4.3	7.4
MAY 12...	170	0	45	14	20	20	4.5	228	0	190	5.8	8.6
JUN 23...	110	0	28	8.9	13	20	4.1	134	0	110	6.8	11
JUL 27...	94	0	25	7.6	15	25	3.6	130	0	110	5.2	8.9
AUG 10...	160	0	43	12	20	21	3.8	212	0	170	2.7	7.6
SEP 08...	170	0	48	13	19	19	4.8	230	0	190	3.7	7.9

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
OCT 27...	32	.4	20	393	413	.53	21.2	.90	.91	4.0	.15	22000
NOV 25...	31	.3	20	389	400	.53	15.8	.78	.83	3.7	.13	1600
DEC 16...	9.2	.3	11	162	137	.22	--	1.3	2.8	12	.44	330
JAN 23...	3.9	.2	7.9	85	79	.12	--	1.6	2.5	11	.52	2500
FEB 16...	17	.2	18	266	278	.36	21.5	1.0	1.3	5.8	.18	--
MAR 09...	2.7	.1	7.5	60	51	.08	327	2.0	3.4	15	.62	--
APR 14...	9.7	.1	13	186	176	.25	25.6	1.2	1.7	7.5	.17	--
MAY 12...	14	.2	16	217	235	.30	17.0	.25	.75	3.3	.14	--
JUN 23...	9.3	.1	15	147	155	.20	10.3	.65	1.7	7.7	.22	--
JUL 27...	10	.1	14	160	148	.22	24.2	.98	1.4	6.4	.27	--
AUG 10...	18	.2	3.4	223	213	.30	--	.91	.92	4.1	.21	--
SEP 08...	17	.2	19	231	242	.31	--	.36	.37	1.6	.18	--

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT 27...	4	3	0	0	<10	0	0	0	5	4	1500	10
JAN 23...	12	3	0	0	20	0	3	0	15	6	10000	30
MAY 12...	2	2	0	0	10	4	0	0	3	3	2300	20
JUL 27...	6	3	0	0	10	1	0	0	10	7	4600	20

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 27...	5	1	380	300	.0	.0	0	0	20	10	8.8
JAN 23...	8	2	160	20	.1	.1	0	0	70	10	13
MAY 12...	3	3	390	300	.0	.0	0	0	20	10	7.2
JUL 27...	10	0	210	100	.0	.0	0	0	10	10	6.2

DATE	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ATRA- ZINE (UG/L)	ATRA- ZINE IN BOTTOM MATERI- AL (UG/ KG DRY SOLIDS)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	P,P' DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	P,P' DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	P,P' DDT IN BOTTOM MA- TERIAL (UG/KG)
NOV 25...	ND	ND	ND	ND	ND	ND	ND	89	ND	56	ND	6.0
FEB 16...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)
NOV 25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 16...	ND	--	ND	--	ND	--	ND	--	ND	--	.01	--

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)	METHOX- YCHLOR IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)
NOV 25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 16...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	SIMA- ZINE TOTAL (UG/L)
NOV 25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 16...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV. 16, 1976...	1345	11.5	10.0	--	MAR. 8	1420	22.0	14.0	7.2
JAN. 20, 1977...	1250	14.5	4.0	--	JUNE 29	1530	34.8	30.4	4.4
FEB. 3.....	1020	7.0	6.5	9.8	AUG. 3	1430	30.0	31.0	7.4
FEB. 4.....	0900	10.0	7.0	--	SEPT. 26	1130	30.0	24.0	5.0
FEB. 22.....	1515	20.0	15.0	--					

DATE	SUS- PENDE SEDIM- MENT (MG/L)	SUS- PENDE SEDIM- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	SUS- PENDE SEDIM- MENT (MG/L)	SUS- PENDE SEDIM- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 27...	140	7.6	70	MAY 12...	22	1.7	88
NOV 25...	154	6.2	65	JUN 23...	55	3.9	96
DEC 16...	203	--	98	JUL 27...	171	26	94
JAN 23...	344	--	100	AUG 10...	83	7.6	91
MAR 09...	547	2980	100	SEP 08...	54	2.8	85

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) + WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	605	589	697	691	671	664	216	215	288	275	528	511
2	607	597	698	692	670	663	222	214	297	287	519	506
3	615	599	696	693	669	662	233	222	312	297	519	155
4	626	617	700	691	670	667	256	234	328	311	243	130
5	630	621	704	695	674	665	285	256	341	327	141	127
6	632	626	706	697	666	632	289	219	354	340	151	140
7	631	615	704	698	668	637	218	168	367	354	146	141
8	632	626	705	696	667	599	---	---	382	366	149	144
9	630	621	703	697	600	355	---	---	400	381	152	143
10	643	631	704	698	348	329	---	---	408	398	153	141
11	648	636	705	693	345	332	---	---	417	407	146	137
12	653	646	697	687	326	295	---	---	427	415	143	132
13	667	651	698	692	299	268	---	---	435	426	125	99
14	662	652	702	699	264	248	---	---	443	433	110	98
15	666	660	703	684	268	252	---	---	443	435	115	108
16	671	665	707	701	279	267	---	---	445	435	121	113
17	669	663	704	695	290	279	---	---	449	441	138	120
18	676	667	699	696	303	289	---	---	452	442	139	131
19	683	674	703	694	312	302	---	---	470	453	145	139
20	684	678	698	692	319	309	---	---	483	469	146	143
21	688	676	691	688	319	228	---	---	499	484	160	142
22	695	682	692	686	221	194	---	---	514	493	164	159
23	696	692	690	687	213	194	---	---	519	460	172	161
24	697	675	695	689	219	213	191	175	537	515	199	172
25	691	670	693	690	218	192	228	192	550	513	231	199
26	696	687	691	682	186	132	227	217	548	506	256	231
27	702	689	690	681	178	131	235	214	552	517	271	254
28	700	694	682	673	221	179	248	235	541	527	286	265
29	705	689	674	671	233	222	251	246	---	---	291	280
30	691	688	673	666	236	230	262	250	---	---	299	283
31	695	689	---	---	228	216	276	261	---	---	286	279

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	284	255	189	174	560	506	395	368	360	339	301	274
2	246	132	218	185	606	536	404	385	359	297	321	287
3	146	129	246	216	569	544	423	386	324	241	338	316
4	175	147	277	239	641	582	418	386	315	290	361	337
5	171	161	306	267	607	555	413	367	331	299	375	356
6	164	157	330	291	571	541	410	366	349	310	375	370
7	190	162	378	316	574	536	439	365	361	322	380	370
8	210	190	373	341	578	544	459	433	359	328	385	372
9	220	203	389	362	579	540	475	436	381	338	399	376
10	239	218	406	371	585	531	477	443	395	358	408	389
11	262	238	424	370	583	541	528	360	402	363	416	392
12	285	260	439	393	574	529	311	254	406	378	414	386
13	303	275	436	394	581	537	291	245	422	383	432	401
14	324	301	439	392	547	474	257	241	428	409	438	426
15	330	273	387	346	485	402	285	256	436	423	450	412
16	341	309	393	326	491	382	297	264	439	401	457	419
17	358	344	404	322	354	230	302	279	437	405	461	439
18	379	358	389	347	275	227	319	286	444	405	463	437
19	409	375	429	364	296	259	336	300	447	427	468	441
20	385	121	439	425	318	277	345	318	469	435	477	440
21	290	82	463	425	326	306	367	315	490	434	475	436
22	97	89	476	452	338	310	360	163	419	230	465	448
23	110	97	475	454	341	311	170	152	220	191	463	449
24	130	113	471	425	352	331	236	162	204	180	470	445
25	141	128	467	416	376	333	247	226	205	192	478	459
26	147	139	466	439	381	343	258	235	213	195	478	452
27	152	144	485	447	362	342	269	249	221	203	479	448
28	153	142	502	457	382	348	298	269	237	210	477	442
29	165	148	508	472	381	319	319	287	256	227	478	440
30	176	164	525	482	383	353	322	301	280	252	481	451
31	---	---	537	497	---	---	348	310	286	263	---	---

07369500 TENSAS RIVER AT TENDAL, LA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.5	22.0	15.5	13.0	9.0	7.5	5.0	---	6.0	5.0	16.0	14.5
2	26.0	22.0	17.0	13.0	10.0	7.5	5.0	---	6.5	5.0	15.0	14.5
3	26.5	23.0	15.5	13.5	9.0	7.5	5.0	---	7.0	6.0	17.0	14.5
4	24.5	23.0	16.0	13.5	11.5	7.5	5.5	---	8.5	6.5	15.5	15.5
5	24.5	23.5	15.5	13.0	10.5	8.0	6.0	5.5	9.0	7.0	15.0	14.5
6	24.5	22.5	13.5	12.5	10.0	9.0	7.0	5.5	10.0	7.5	14.0	13.0
7	22.5	21.0	14.0	12.5	9.5	8.5	7.0	6.0	9.5	8.0	13.0	12.5
8	21.0	19.5	14.5	12.0	8.5	7.5	---	---	9.5	8.0	13.5	12.5
9	20.5	18.5	13.5	12.0	8.0	7.5	---	---	10.5	7.5	14.0	13.5
10	20.5	18.0	14.5	13.0	8.0	7.5	---	---	10.0	8.0	14.5	13.5
11	20.5	18.0	14.0	13.0	9.0	8.0	---	---	11.5	9.5	15.0	14.5
12	21.0	18.5	12.5	11.0	9.5	9.0	---	---	12.0	11.0	16.0	15.0
13	24.5	19.0	11.0	10.0	10.0	9.5	---	---	12.5	11.0	15.5	15.0
14	22.0	20.5	10.0	9.5	9.5	9.0	---	---	13.5	11.5	16.0	15.0
15	21.5	19.5	9.5	9.5	9.0	8.5	---	---	13.0	11.5	17.0	16.0
16	20.5	19.0	10.0	9.0	9.5	8.5	---	---	12.0	11.0	17.5	16.5
17	19.0	17.5	11.5	9.0	9.0	8.5	---	---	12.5	11.0	17.5	17.0
18	19.5	16.5	10.5	9.5	9.0	8.5	---	---	13.0	12.0	18.0	17.0
19	18.0	16.5	11.0	10.5	10.0	9.0	---	---	16.0	13.0	18.0	17.5
20	18.5	16.5	12.5	11.0	11.5	10.5	---	---	15.5	13.5	18.0	17.0
21	19.5	15.5	13.0	11.5	11.0	10.0	---	---	14.5	13.0	17.0	16.0
22	17.0	15.5	12.0	10.5	10.0	7.5	---	---	15.0	13.0	19.5	15.5
23	17.5	15.5	11.5	10.0	7.5	6.5	---	---	16.5	15.0	15.5	14.5
24	18.0	17.5	12.0	10.5	6.5	6.0	5.0	5.0	16.5	15.5	15.0	15.0
25	18.0	17.5	13.0	11.0	7.5	6.5	6.0	5.0	17.5	15.5	15.0	14.0
26	17.5	16.5	14.5	12.5	9.0	7.5	6.0	5.0	18.0	17.0	15.0	14.5
27	16.5	14.5	16.0	14.0	8.5	8.5	7.0	6.0	18.0	16.0	17.0	15.0
28	15.0	14.0	14.0	10.5	9.0	8.5	8.0	6.5	16.5	15.5	19.5	17.5
29	14.0	13.5	10.5	8.5	9.0	8.0	7.0	5.5	---	---	19.0	18.5
30	13.5	13.5	9.5	7.5	9.0	8.5	6.0	6.0	---	---	20.0	19.0
31	14.5	13.0	---	---	8.5	5.0	6.5	5.0	---	---	20.0	19.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	18.5	24.5	24.0	31.5	27.0	33.0	28.0	32.5	30.0	---	27.5
2	18.5	16.0	24.5	23.5	32.5	26.5	32.0	29.0	34.5	30.0	32.5	27.5
3	19.0	17.5	24.5	23.5	30.5	27.0	35.5	27.5	32.0	28.0	33.0	28.5
4	19.5	19.0	26.0	24.5	33.5	26.0	35.0	28.0	31.5	27.5	32.0	28.0
5	18.5	17.5	27.0	25.5	30.5	26.5	35.5	29.5	30.5	27.5	31.5	24.5
6	17.5	16.5	27.5	26.5	32.5	26.5	35.0	29.0	31.0	27.0	28.0	26.5
7	18.0	17.0	28.0	27.5	28.5	26.5	34.5	29.5	34.0	27.5	32.5	26.0
8	19.0	18.0	28.0	27.5	27.0	25.0	33.5	30.0	31.5	28.5	31.0	27.0
9	20.0	19.5	29.5	26.0	27.5	24.5	31.5	29.0	32.0	28.0	27.5	26.0
10	21.0	20.0	27.5	25.0	29.0	25.0	29.0	28.0	---	28.5	31.5	25.5
11	22.0	21.5	28.5	24.5	29.5	26.0	28.0	26.5	33.0	28.5	32.0	26.5
12	22.5	22.0	28.5	25.0	30.5	26.5	27.0	26.5	31.0	27.5	31.0	26.5
13	24.0	23.0	29.0	25.0	27.5	26.5	28.0	27.0	31.0	26.5	27.0	26.0
14	23.5	23.0	28.0	25.5	29.0	25.5	28.0	28.0	32.5	26.5	26.0	25.5
15	24.5	23.5	27.0	24.5	26.5	26.0	32.0	29.0	33.5	28.0	25.5	25.0
16	25.5	24.5	28.0	25.5	26.5	26.0	33.5	29.5	33.5	28.5	30.5	24.5
17	26.5	25.0	28.0	26.5	26.5	26.0	33.0	26.5	32.0	29.0	27.5	26.0
18	26.0	25.5	27.5	24.5	27.0	26.5	34.0	27.0	30.0	28.0	27.5	26.0
19	27.5	26.0	27.0	24.5	27.5	27.5	32.0	27.0	30.5	27.0	26.5	25.5
20	27.0	24.0	28.0	24.0	28.0	27.5	36.5	26.0	28.5	27.0	30.0	26.5
21	26.0	23.5	25.5	24.0	29.0	27.5	31.0	25.5	27.5	26.5	30.5	27.0
22	24.0	23.5	26.5	23.5	29.0	27.5	31.0	25.5	26.5	26.0	30.0	27.0
23	25.0	24.0	29.5	24.0	31.0	28.0	29.5	26.0	26.5	26.0	27.0	26.0
24	25.0	25.0	29.5	24.5	31.0	28.0	31.0	26.5	27.0	26.5	27.0	26.0
25	24.5	24.0	28.5	25.0	30.5	28.5	31.5	31.0	27.5	27.0	27.0	26.0
26	24.0	23.5	30.0	24.5	30.5	27.5	31.5	31.0	29.0	27.5	28.5	26.5
27	24.0	23.0	30.5	25.5	30.0	27.5	31.5	30.0	31.0	27.5	28.0	26.5
28	24.0	23.0	30.0	24.5	30.5	27.5	30.5	29.5	32.5	27.5	27.5	26.5
29	24.5	24.0	29.5	25.0	31.5	27.5	31.0	29.5	35.0	27.0	27.0	26.0
30	25.0	24.0	30.5	25.5	30.0	27.5	30.0	29.0	35.5	27.5	27.5	26.5
31	---	---	31.0	26.5	---	---	29.5	29.0	35.0	27.5	---	---

07369500 TENSAS RIVER AT TENDAL, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

OCT. 27, 1976 1500 HOURS

PHYTOPLANKTON 22,000 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	1,000	5
CHRYSOPTHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	5,500	26
....MELOSIRA	3,000	14
..PENNALES		
...NITZSCHIA		
....NITZSCHIA	12,000	53
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	500	2

NOV. 25, 1976 1100 HOURS

PHYTOPLANKTON 1,600 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	32	2
...VOLVOCAEAE		
....PANDORINA	11	1
CHRYSOPTHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....MELOSIRA	350	22
..PENNALES		
...NITZSCHIA		
....NITZSCHIA	350	22
EUGLENOPHYTA		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	330	21
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	440	28
....PHACUS	32	2
....TRACHELOMONAS	32	2

DEC. 16, 1976 0930 HOURS

PHYTOPLANKTON 330 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...SCENEDESMACEAE		
....CRUCIGENIA	110	32
...SCENEDESMUS	53	16
..VOLVOCALES		
...VOLVOCAEAE		
....EUDORINA	160	48
CHRYSOPTHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....NAVICULA	13	4

JAN. 23, 1977 0930 HOURS

PHYTOPLANKTON 2,500 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	120	5
CHRYSOPTHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	54	2
..PENNALES		
...NAVICULACEAE		
....NAVICULA	54	2
...NITZSCHIA		
....NITZSCHIA	27	1
CRYANOPHYTA		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIAEAE		
....OSCILLATORIA	2,200	88
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	27	1
PYRRHOPHYTA		
.DINOPHYCEAE		
..PERIDINIALES		
...GLENODINIACEAE		
....GLENODINIUM	13	1

07369515 TENSAS RIVER SOUTHEAST OF TENDAL, LA

LOCATION.--Lat 32°23'17", long 91°20'05", in NW¼ sec.10, T.16 N., R.11 E., Madison Parish, Hydrologic Unit 08050003, on right bank 1.6 mi (2.6 km) upstream from mouth of Judd Bayou, 3.5 mi (5.6 km) southeast of Tendal, and 8.5 mi (13.7 km) downstream from gaging station Tensas River at Tendal (sta 07369500).

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1975 to current year (gage heights only). Unpublished records October 1957 to September 1975 available in files of the Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage 50.07 ft (15.261 m) above mean sea level.

REMARKS.--Small diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.79 ft (6.032 m) Mar. 6, 7, 1977; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.79 ft (6.032 m) Mar. 6, 7, 1977; minimum, not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	4.80	4.45	5.98	7.18	4.24	4.18	4.87	4.23
2	---	---	---	---	4.70	4.44	---	6.09	4.24	4.18	4.89	4.22
3	---	---	---	---	4.67	7.18	---	5.93	4.24	4.18	4.74	4.18
4	---	---	---	---	4.69	16.65	---	5.87	4.24	4.18	4.56	4.19
5	---	---	---	---	4.70	18.99	---	---	4.24	4.18	4.46	4.20
6	---	---	---	---	4.66	19.71	---	---	4.26	4.18	4.38	4.20
7	---	---	---	---	4.60	19.71	---	---	4.42	4.18	4.33	4.17
8	---	---	---	---	4.55	19.28	---	---	4.46	4.18	4.32	4.17
9	---	---	---	---	4.51	18.57	---	---	4.43	4.33	4.29	4.17
10	---	---	---	---	4.47	17.67	6.08	---	4.35	4.33	4.29	4.18
11	---	---	---	---	4.45	16.65	5.66	---	4.32	4.99	4.28	4.19
12	---	---	---	---	4.45	16.12	5.29	---	4.29	5.79	4.29	4.19
13	---	---	---	---	4.45	15.75	4.99	---	4.28	5.81	4.33	4.23
14	---	---	---	---	4.45	14.90	4.80	---	4.28	5.48	4.30	4.26
15	---	---	---	---	4.45	13.85	4.67	---	4.36	5.09	4.26	4.24
16	---	4.26	---	---	4.45	12.66	4.59	---	5.09	4.76	4.21	4.24
17	---	4.27	---	---	4.42	11.40	4.53	---	5.77	4.56	4.21	4.24
18	---	4.27	---	---	4.40	10.15	4.50	---	5.77	4.49	4.22	4.24
19	---	4.28	---	---	4.41	9.01	4.50	---	5.45	4.44	4.22	4.24
20	---	4.29	---	---	4.42	8.19	4.50	4.37	5.08	4.36	4.45	4.24
21	---	4.29	---	7.41	---	7.74	---	4.36	4.75	4.49	5.07	4.28
22	---	---	---	6.88	---	7.21	---	4.35	4.53	5.81	5.29	4.29
23	---	---	---	6.48	4.37	6.72	16.82	4.34	4.41	6.24	5.30	4.29
24	---	---	---	6.34	4.38	6.31	16.30	4.33	4.35	5.91	5.24	4.29
25	---	---	---	6.52	4.40	5.97	15.38	4.34	4.32	5.43	5.08	4.29
26	---	---	---	6.46	4.42	5.66	14.39	4.36	4.29	5.02	4.85	4.28
27	---	---	---	6.18	4.45	5.36	13.28	4.36	4.27	4.72	4.59	4.28
28	---	---	---	5.85	4.45	5.16	12.13	4.34	4.26	4.54	4.42	4.28
29	---	---	---	5.51	---	5.45	10.70	4.32	4.22	4.49	4.33	4.27
30	---	---	---	5.20	---	5.70	8.85	4.31	4.18	4.52	4.23	4.27
31	---	---	---	4.97	---	5.60	---	4.28	---	4.64	4.23	---
MEAN	---	---	---	---	---	11.04	---	---	4.51	4.76	4.53	4.23
MAX	---	---	---	---	4.80	19.71	---	7.18	5.77	6.24	5.30	4.29
MIN	---	---	---	4.97	---	4.44	4.50	4.28	4.18	4.18	4.21	4.17

RED RIVER BASIN

07369700 BAYOU MACON NEAR KILBOURNE, LA

LOCATION.--Lat 32°59'35", long 91°15'45", in SW¼SE¼ sec.8, T.23 N., R.12 E., East Carroll-West Carroll Parish line, Hydrologic Unit 08050002, near center of channel on downstream side of bridge on State Highway 585, 0.8 mi (1.3 km) south of Arkansas-Louisiana State line, and 3.0 mi (4.8 km) east of Kilbourne.

DRAINAGE AREA.--504 mi² or 1,305 km² (see REMARKS).

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (annual maximum gage height and discharge below 200 ft³/s or 5.66 m³/s only).

GAGE.--Water-stage recorder. Datum of gage is 75.41 ft (22.985 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1965, at datum 2.00 ft (0.610 m) higher.

REMARKS.--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.

AVERAGE DISCHARGE.--11 years (1958-68), 508 ft³/s (14.39 m³/s), 368,000 acre-ft/yr (454 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 26.73 ft (8.147 m) Mar. 17, 1973; no flow June 11, 1963, result of pumping for irrigation.

Maximum discharge, 4,740 ft³/s (134 m³/s) May 5, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 21.02 ft (6.407 m) Mar. 4; minimum discharge, 59 ft³/s (1.67 m³/s) July 20, gage height, 1.48 ft (0.451 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142		154	145		127			103	61	118	80
2	134		149	131		122			90	60	103	74
3	126		142	130					78	60	88	71
4	121		135	126					81	60	83	71
5	121		135	129					85	64	80	72
6	126		156	184					96	66	78	73
7	117		192		193				83	63	83	77
8	113		169		176				72	61	91	77
9	112	189	199		160				67	63	86	74
10	110	173			152				64	67	87	74
11	108	163			145				62	81	85	79
12	106	154			180			198	67	86	80	85
13	106	142						180	69	80	85	79
14	105	135			188			160	73	71	92	77
15	105	125			166			140	81	67	87	77
16	106	117			151			120	96	66	81	80
17	104	110			137			130	110	65	78	83
18	101	103			132			120	101	67	78	78
19	102	98			133			110	86	62	84	78
20	105	102			123			100	78	59	83	136
21	103	101			113			110	74	64	78	
22	103	97			106			95	72	92	78	162
23	102	94			103			85	76	98	82	103
24	104	91			109			82	84	85	96	87
25	115	93			109			97	76	78	108	84
26	106	103			114			100	76	77	119	81
27	102	112			124			97	69	83	111	80
28	140	128			131			106	67	85	96	81
29		160	190		---			119	67	85	93	89
30		167	172		---			123	64	121	88	98
31		---	163		---			110	---	134	83	---
TOTAL	---	---	---	---	---	---	---	---	2367	2331	2762	---
MEAN	---	---	---	---	---	---	---	---	78.9	75.2	89.1	---
MAX	---	---	---	---	---	---	---	---	110	134	119	---
MIN	101	91	135	126	103	122		82	62	59	78	71

CAL YR 1976 MIN 65
WTR YR 1977 MIN 59

07369700 BAYOU MACON NEAR KILBOURNE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.49	4.00	2.76	2.67	4.31	2.49	3.87	4.82	2.02	1.51	2.19	1.76
2	2.37	4.20	2.71	2.54	4.04	2.43	3.78	4.51	1.88	1.50	2.03	1.69
3	2.28	4.24	2.64	2.53	3.82	6.66	3.80	4.51	1.74	1.50	1.85	1.65
4	2.22	4.15	2.58	2.49	3.65	20.26	5.35	4.27	1.78	1.50	1.80	1.66
5	2.22	3.99	2.58	2.52	3.49	19.98	7.09	4.15	1.82	1.56	1.77	1.67
6	2.27	3.72	2.79	3.04	3.31	17.98	10.35	3.91	1.94	1.59	1.74	1.68
7	2.18	3.48	3.13	4.37	3.12	16.42	11.87	3.68	1.80	1.55	1.80	1.73
8	2.14	3.29	2.90	3.81	2.96	15.13	12.27	3.50	1.66	1.52	1.88	1.72
9	2.12	3.09	3.18	6.85	2.81	14.04	12.13	3.40	1.59	1.55	1.83	1.69
10	2.10	2.93	3.62	8.45	2.74	13.08	11.72	3.30	1.55	1.59	1.85	1.69
11	2.08	2.84	3.86	5.87	2.67	12.23	11.12	3.21	1.53	1.77	1.83	1.75
12	2.06	2.76	4.42	4.85	3.00	13.16	10.11	3.07	1.60	1.83	1.77	1.82
13	2.05	2.65	4.63	4.61	3.36	13.03	8.69	---	1.63	1.76	1.82	1.75
14	2.05	2.58	4.23	8.29	3.08	12.35	7.35	---	1.68	1.65	1.90	1.73
15	2.04	2.49	4.03	8.99	2.86	11.74	6.33	---	1.78	1.60	1.85	1.73
16	2.05	2.41	3.89	9.44	2.72	10.90	5.66	---	1.95	1.58	1.77	1.76
17	2.03	2.34	3.73	10.60	2.59	9.66	5.13	---	2.10	1.58	1.74	1.81
18	2.00	2.27	3.57	10.97	2.54	8.19	4.72	---	2.00	1.59	1.73	1.74
19	2.01	2.23	3.47	10.52	2.54	7.16	4.66	---	1.83	1.53	1.81	1.73
20	2.05	2.27	6.36	9.41	2.44	6.42	5.08	---	1.74	1.49	1.80	2.39
21	2.02	2.25	6.01	8.09	2.33	5.63	10.49	---	1.69	1.55	1.73	3.50
22	2.02	2.22	4.34	7.05	2.24	5.13	10.83	---	1.66	1.89	1.74	2.68
23	2.01	2.19	3.53	6.31	2.21	4.67	10.26	---	1.72	1.97	1.78	2.02
24	2.03	2.16	3.19	6.61	2.28	4.28	9.99	---	1.81	1.82	1.94	1.84
25	2.15	2.18	4.06	6.38	2.28	4.05	9.73	1.95	1.71	1.74	2.08	1.81
26	2.05	2.28	5.39	5.86	2.34	3.83	9.00	1.98	1.71	1.72	2.20	1.77
27	2.01	2.36	4.35	5.69	2.44	3.61	7.85	1.95	1.62	1.80	2.11	1.76
28	2.43	2.51	3.43	5.52	2.52	3.83	6.73	2.06	1.60	1.82	1.95	1.78
29	3.26	2.82	3.10	5.24	---	3.76	5.92	2.20	1.60	1.82	1.91	1.86
30	3.82	2.88	2.93	4.85	---	3.72	5.32	2.24	1.55	2.22	1.86	1.97
31	3.93	---	2.84	4.57	---	3.82	---	2.10	---	2.37	1.80	---
MEAN	2.28	2.86	3.69	6.10	2.88	9.02	7.91	---	1.74	1.69	1.87	1.87
MAX	3.93	4.24	6.36	10.97	4.31	20.26	12.27	---	2.10	2.37	2.20	3.50
MIN	2.00	2.16	2.58	2.49	2.21	2.43	3.78	---	1.53	1.49	1.73	1.65

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958, 1966-72, 1976 to July 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1967 to September 1969.

WATER TEMPERATURES: October 1967 to September 1968.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 569 micromhos Nov. 28, 1967; minimum daily, 59 micromhos Apr. 9, 1968.

WATER TEMPERATURES: Maximum daily, 33.0°C June 11, 1968; minimum daily, 2.0°C Jan. 14, 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM 7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
DEC 16...	1150	E278	436	7.6	8.0	20	20	10.8	2.7	380	220	--
FEB 16...	1010	152	387	7.6	8.0	15	30	10.0	4.9	170	--	92
MAY 12...	1225	198	282	7.9	23.5	30	80	6.5	.5	880	--	--
JUL 27...	1010	83	385	7.6	28.0	20	30	5.4	3.0	<5	--	150

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC 16...	170	23	42	15	22	22	.7	4.0	179	0	147	7.2
FEB 16...	160	21	41	14	19	20	.7	4.9	169	0	139	6.8
MAY 12...	110	7	29	8.7	13	20	.5	3.9	123	0	100	2.5
JUL 27...	160	4	42	13	19	20	.7	3.3	188	0	150	7.6

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 16...	24	34	.3	7.4	252	237	.34	.22	.61	.83	3.7	.13
FEB 16...	24	26	.1	8.5	223	221	.30	.32	--	--	--	.21
MAY 12...	15	14	.1	11	184	155	.25	1.5	--	--	--	.29
JUL 27...	20	19	.2	15	248	224	.34	.48	--	--	--	.10

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 16...	3	4	0	<10	20	0	3	10	10	14000	0	<10

07369700 BAYOU MACON NEAR KILBOURNE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)
DEC 16...	50	140	.3	.0	10	20	7.8	.00	0	.0	0	.00

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
DEC 16...	.0	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
DEC 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 16...	0	.00	.0	.00	.25	.00

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV. 23, 1976	1200	10.0	4.0	11.0	AUG. 4.....	0820	26.5	25.5	5.7
FEB. 17, 1977	0900	9.5	9.0	11.0	SEPT. 27.....	0820	32.0	23.0	6.6
JULY 18.....	1200	36.0	32.5	6.6					

07370000 BAYOU MACON NEAR DELHI, LA

LOCATION.--Lat 32°27'25", long 91°28'30", in E½ 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 (0.3 km) upstream from Illinois Central Railroad bridge, and 1 mi (2 km) east of Delhi.

DRAINAGE AREA.--782 mi² (2,030 km²).

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; since January 1932 in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 50.05 ft (15.255 m) above mean sea level (levels by Corps of Engineers). Prior to Mar. 14, 1949, nonrecording gage; Mar. 14, 1949, to Oct. 1, 1963, water-stage recorder; all gages within 2,000 ft (610 m) downstream at same datum. Auxiliary water-stage recorder 7.7 mi (12.4 km) downstream from base gage at datum 46.05 ft (14.036 m) above mean sea level. Prior to Mar. 9, 1972, auxiliary gages at different sites and datum.

REMARKS.--Records fair. Large diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--42 years, 971 ft³/s (27.50 m³/s), 703,500 acre-ft/yr (867 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,320 ft³/s (264 m³/s) June 10, 1974; maximum gage height, 26.00 ft (7.925 m) May 6, 7, 1958; no flow May 25, 26, 28, June 1, 1963, result of temporary dam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1882 reached a stage of 37.5 ft (11.4 m) present site and datum, from records of National Weather Service (affected by overflow from Mississippi River).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,390 ft³/s (209 m³/s) Mar. 5; maximum gage height, 20.32 ft (6.194 m) Mar. 6; minimum discharge, 85 ft³/s (2.41 m³/s) July 9, gage height, 5.30 ft (1.615 m).

REVISIONS.--Revised figures of discharge, in cubic feet per second, superseding figures published in WDR LA 76-1, are given below:

Date	Discharge	Date	Discharge	Date	Discharge
June 13, 1976	190	Aug. 2, 1976	195	Aug. 8, 1976	150
14	180	3	190	9	145
15	170	4	185	10	140
16	160	5	175	11	130
17	190	6	170	12	120
Aug. 1	200	7	160	13	115

Month	Total	Mean	Maximum	Minimum	Ac-ft
June 1976.....	19,073	636	-	160	37,830
August 1976.....	4,595	148	200	-	9,110
Calendar year 1975....	306,240	839	-	-	607,500
Water year 1976.....	329,948	902	-	-	654,500

07370000 BAYOU MACON NEAR DELHI, LA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	392	288	284	440	205	835	630	162	94	324	140
2	282	410	292	267	420	200	974	614	157	93	261	130
3	268	430	281	253	400	996	803	610	148	94	211	120
4	251	440	277	245	382	5500	1250	515	138	101	172	120
5	243	432	267	270	365	7280	2060	466	133	102	141	120
6	249	415	309	351	339	6760	1710	422	140	99	124	120
7	248	398	584	980	318	5830	1460	387	147	93	114	130
8	240	361	667	963	292	4420	1590	344	143	87	113	130
9	231	335	489	1640	273	3440	1690	318	140	85	115	120
10	223	320	385	2520	256	2980	1700	283	129	105	116	130
11	218	315	381	2370	244	2820	1650	258	117	174	112	130
12	214	287	524	1500	243	3400	1560	265	109	184	115	135
13	213	273	850	827	251	3100	1420	257	119	180	125	130
14	208	266	770	1700	294	2900	1210	214	151	236	127	120
15	208	253	563	2090	300	2520	988	189	200	208	129	120
16	211	244	450	1740	270	2180	801	176	210	194	133	120
17	208	234	394	1370	248	1720	670	169	195	168	134	130
18	204	225	362	1370	237	1420	595	162	169	152	138	130
19	204	220	337	1410	227	1170	568	165	160	134	140	120
20	206	228	849	1400	215	1040	799	163	150	117	150	180
21	201	223	1640	1250	204	904	3820	155	137	113	150	300
22	198	217	1200	875	193	732	4280	163	116	125	140	400
23	193	211	700	949	194	606	3480	155	99	142	130	200
24	204	206	459	972	197	524	3050	142	93	155	130	140
25	214	202	736	821	184	460	2560	133	95	165	150	130
26	212	206	1430	693	188	404	2230	152	103	162	170	121
27	215	220	1100	625	201	354	1530	157	106	161	180	117
28	206	233	727	563	204	496	1120	158	105	162	180	113
29	219	238	486	524	---	594	898	156	101	162	170	115
30	274	264	379	485	---	505	738	156	94	196	160	110
31	348	---	331	462	---	402	---	158	---	329	150	---
TOTAL	7096	8698	18507	31769	7579	65862	48039	8292	4066	4572	4704	4321
MEAN	229	290	597	1025	271	2125	1601	267	136	147	152	144
MAX	348	440	1640	2520	440	7280	4280	630	210	329	324	400
MIN	193	202	267	245	184	200	568	133	93	85	112	110
AC-FT	14070	17250	36710	63010	15030	130600	95290	16450	8060	9070	9330	8570
CAL YR 1976	TOTAL	306240	MEAN 839	MAX 5100	MIN 102	AC-FT 607500						
WTR YR 1977	TOTAL	213505	MEAN 585	MAX 7280	MIN 85	AC-FT 423500						

07370000 BAYOU MACON NEAR DELHI, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.36	6.68	6.37	6.36	---	6.05	7.34	7.05	5.89	5.39	6.46	7.10
2	6.35	6.72	6.38	6.31	---	6.03	7.57	7.02	5.86	5.38	6.28	7.17
3	6.31	6.77	6.35	6.25	---	7.58	7.32	7.02	5.81	5.39	6.08	7.29
4	6.24	6.79	6.34	6.21	6.65	16.29	7.94	6.85	5.74	5.44	5.89	7.35
5	6.21	6.77	6.30	6.32	6.60	19.80	9.07	6.77	5.70	5.44	5.70	7.39
6	6.23	6.73	6.43	6.54	6.53	20.21	8.55	6.69	5.74	5.42	5.59	7.49
7	6.23	6.69	7.08	7.65	6.47	19.38	8.22	6.63	5.79	5.39	5.52	7.68
8	6.20	6.60	7.22	7.64	6.38	17.86	8.38	6.54	5.76	5.35	5.52	7.85
9	6.16	6.52	6.90	8.57	6.32	16.12	8.51	6.48	5.73	5.33	5.53	8.06
10	6.13	6.47	6.66	10.47	6.26	14.34	8.52	6.41	5.66	5.46	5.54	8.12
11	6.11	6.46	6.65	9.88	6.22	12.81	8.46	6.34	5.58	5.90	5.51	8.10
12	6.10	6.37	6.96	8.31	6.21	13.48	8.35	6.36	5.53	5.95	5.53	8.09
13	6.09	6.33	7.49	7.45	6.24	12.93	8.17	6.34	5.59	5.93	5.60	8.11
14	6.07	6.30	7.37	8.57	6.39	11.71	7.90	6.20	5.79	6.19	5.61	8.20
15	6.06	6.25	7.05	9.10	6.41	10.42	7.59	6.10	6.06	6.07	5.62	8.31
16	6.08	6.22	6.82	8.60	6.31	9.32	7.32	6.04	6.11	6.00	5.65	8.42
17	6.07	6.18	6.68	8.15	6.23	8.55	7.11	6.01	6.03	5.87	5.66	8.43
18	6.04	6.14	6.60	8.15	6.19	8.17	6.99	5.98	5.89	5.77	5.68	8.44
19	6.05	6.12	6.53	8.20	6.15	7.84	6.95	5.99	5.84	5.66	5.93	8.46
20	6.06	6.15	7.40	8.18	6.10	7.66	7.28	5.97	5.78	5.54	6.07	8.47
21	6.03	6.13	8.48	8.00	6.05	7.47	12.80	5.91	5.68	5.52	6.00	8.54
22	6.02	6.11	7.94	7.52	5.99	7.20	15.86	5.95	5.55	5.60	5.99	8.71
23	5.99	6.08	7.27	7.62	5.99	7.00	14.97	5.90	5.43	5.71	5.97	8.80
24	6.04	6.06	6.84	7.65	6.01	6.87	13.06	5.81	5.39	5.79	6.20	8.72
25	6.09	6.04	7.25	7.45	5.95	6.76	11.13	5.74	5.40	5.85	6.40	8.62
26	6.09	6.05	8.23	7.26	5.96	6.66	9.46	5.85	5.45	5.84	6.51	8.54
27	6.09	6.12	7.81	7.15	6.03	6.56	8.31	5.89	5.47	5.83	6.58	8.51
28	6.06	6.17	7.31	7.05	6.04	6.81	7.77	5.88	5.46	5.83	6.66	8.50
29	6.11	6.19	6.89	6.98	---	6.99	7.46	5.87	5.44	5.83	6.74	8.51
30	6.32	6.29	6.65	6.90	---	6.84	7.22	5.87	5.39	6.00	6.84	8.49
31	6.56	---	6.51	---	---	6.66	---	5.88	---	6.47	7.00	---
MEAN	6.15	6.35	6.99	---	---	10.40	8.85	6.24	5.68	5.71	6.00	8.15
MAX	6.56	6.79	8.48	10.47	---	20.21	15.86	7.05	6.11	6.47	7.00	8.80
MIN	5.99	6.04	6.30	6.21	5.95	6.03	6.95	5.74	5.39	5.33	5.51	7.10

07370190 TENSAS RIVER AT CLAYTON, LA

LOCATION.--Lat 31°43'25", long 91°32'40", in SW¼SW¼ sec.27, T.9 N., R.9 E., Catahoula-Concordia Parish line, Hydrologic Unit 08050003, at bridge on State Highway 15 at Clayton.

DRAINAGE AREA.--2,481 mi² (6,426 km²).

PERIOD OF RECORD.--Water years 1959, 1968-70, 1976 to September 1977 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA, MG) (MG/L)
OCT 27...	1300	637	8.2	17.0	20	20	9.8	4.6	<5	88	--	230
NOV 25...	1600	614	8.0	14.5	5	10	11.2	4.5	<2	845	--	230
DEC 15...	1715	615	7.8	9.5	20	10	10.3	3.2	820	190	--	220
JAN 23...	1230	141	7.3	4.5	140	120	11.0	2.7	530	--	81700	49
FEB 15...	1115	287	7.8	9.5	60	65	10.3	5.7	87	--	820	110
MAR 08...	1545	67	6.8	14.0	100	80	7.9	--	560	--	620	30
APR 14...	1300	179	7.4	20.5	160	75	6.0	2.6	80	--	830	71
MAY 10...	1635	162	7.3	24.5	70	80	4.5	1.7	826	--	81000	63
JUN 23...	1130	440	8.2	31.0	10	5	9.5	--	<5	--	810	170
JUL 27...	1700	511	8.6	32.0	15	4	11.8	7.0	88	--	8280	190
AUG 10...	1130	519	8.3	32.0	5	3	7.7	2.5	8350	--	130	180
SEP 08...	1215	510	8.6	30.0	15	3	--	4.3	--	--	860	180

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AU- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT 27...	0	59	21	40	27	1.1	4.0	296	0	243	3.0	15
NOV 25...	4	60	20	37	25	1.1	3.5	275	0	226	4.4	19
DEC 15...	0	57	20	36	25	1.0	3.7	276	0	226	7.0	15
JAN 23...	3	13	4.0	6.1	20	.4	3.7	56	0	46	4.5	9.6
FEB 15...	5	28	9.4	15	22	.6	3.7	126	0	103	3.2	16
MAR 08...	3	7.9	2.5	3.1	17	.2	2.7	33	0	27	8.4	3.8
APR 14...	7	19	5.8	7.7	18	.4	3.7	78	0	64	5.0	7.0
MAY 10...	4	17	5.1	6.5	17	.4	3.5	73	0	60	5.9	7.0
JUN 23...	0	44	14	24	23	.8	3.7	211	0	170	2.1	6.5
JUL 27...	0	49	17	33	27	1.0	3.9	240	2	200	1.0	11
AUG 10...	0	48	15	33	28	1.1	3.8	221	0	180	1.8	12
SEP 08...	0	47	16	31	26	1.0	3.9	230	6	200	1.0	11

07370190 TENSAS RIVER AT CLAYTON, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 27...	57	.2	15	365	357	.50	.01	--	--	--	.12
NOV 25...	55	.4	14	339	345	.46	.14	.62	.76	3.4	.08
DEC 15...	52	.3	14	341	334	.46	.38	--	--	--	.10
JAN 23...	7.9	.2	7.5	88	80	.12	.71	1.5	2.2	9.8	.39
FEB 15...	18	.1	10	170	162	.23	.50	--	--	--	.21
MAR 08...	3.4	.1	5.0	50	45	.07	.62	--	--	--	.52
APR 14...	9.6	.1	8.8	104	100	.14	.81	--	--	--	.38
MAY 10...	7.8	.1	9.4	109	93	.15	.97	1.2	2.2	9.6	.40
JUN 23...	31	.1	10	233	237	.32	.01	--	--	--	.05
JUL 27...	41	.2	13	291	288	.40	.00	.76	.76	3.4	.08
AUG 10...	43	.5	23	272	287	.37	.03	1.3	1.3	5.9	.09
SEP 08...	41	.2	14	275	283	.37	.03	--	--	--	.12

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
NOV 25...	1	--	0	--	--	0	2	--	20	--	0	--
JAN 23...	2	--	0	--	--	0	6	--	40	--	0	--
MAY 10...	2	12	0	<10	10	0	15	<10	50	4800	3	<10
JUL 27...	5	--	0	--	--	0	5	--	20	--	0	--

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 25...	120	--	.1	--	0	--	6.0
JAN 23...	0	--	.1	--	10	--	13
MAY 10...	70	280	.0	.3	10	20	13
JUL 27...	10	--	.0	--	10	--	7.1

DATE	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLY-CHLORINATED NAPHTHALENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)
NOV 25...	--	--	.0	--	.00	--	.00	--	.0	--	.00	--
MAY 10...	.00	0	.0	0	.00	.0	.00	.0	.0	0	.02	40

07370190 TENSAS RIVER AT CLAYTON, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)
NOV 25...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--
MAY 10...	.00	28	.02	20	.00	.0	.01	.0	.00	.0	.00	.0

DATE	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL THION (UG/L)	METHYL THION IN BOT- TOM MA- TERIAL (UG/KG)
NOV 25...	.00	--	.00	--	.00	--	.00	--	.00	--	.00	--
MAY 10...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 25...	--	--	.00	--	0	--	.00	--	.00	.19	.00
MAY 10...	.00	.0	.00	.0	0	0	.00	.0	.09	.03	.00

07371500 DUGDEMONA RIVER NEAR JONESBORO, LA

LOCATION.--Lat 32°12'25", long 92°48'05", in SW¼ sec.8, T.14 N., R.4 W., Bienville-Jackson Parish line, Hydrologic Unit 08040303, on left bank just upstream from bridge on State Highway 4, 200 ft (61 m) downstream from Brush Creek, 1.5 mi (2.4 km) downstream from McDonald Creek, and 5.4 mi (8.7 km) west of Jackson Parish courthouse in Jonesboro.

DRAINAGE AREA.--355 mi² (919 km²).

PERIOD OF RECORD.--October 1938 to September 1957. November 1957 to current year (annual maximum, gage heights, and miscellaneous discharge measurements only)

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

GAGE.--Water-stage recorder. Datum of gage is 116.53 ft (35.518 m) above mean sea level. Prior to Nov. 29, 1938, nonrecording gage at same site and datum.

REMARKS.--Water used by paper mill at Hodge is pumped from wells and discharged into stream about 7 mi (11 km) above station. Part of effluent is discharged continually whenever mill is operating, but that containing waste material is stored in a reservoir and released whenever river flow is sufficient to materially dilute it.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,600 ft³/s (867 m³/s) Jan. 1, 1945, gage height, 19.87 ft (6.056 m); minimum gage height, 2.67 ft (0.814 m) Sept. 26, 1955.

1938-57: Minimum discharge observed, 0.4 ft³/s (0.11 m³/s) Aug. 31, 1954 (discharge measurement), but may have been less in September 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,150 ft³/s (60.9 m³/s) Mar. 5, gage height, 12.37 ft (3.770 m); minimum gage height, 2.89 ft (0.881 m) July 9.

Discharge measurements made during collection of record

Date	Discharge (cfs)
Feb. 7, 1977.....	799
Sept. 26.....	21.2

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.87	4.20	4.80	5.28	6.80	6.81	11.56	4.80	3.70	3.49	3.73	3.92
2	3.77	4.35	4.97	5.03	6.82	6.54	11.38	5.68	3.64	3.53	4.45	3.87
3	3.86	4.40	4.75	5.17	7.22	6.34	10.90	8.78	3.61	3.53	4.22	3.79
4	3.80	4.20	4.52	5.30	9.42	10.52	10.71	9.35	3.59	3.48	3.84	3.67
5	3.75	4.03	4.38	5.36	10.25	12.33	11.23	9.44	3.54	3.45	3.65	3.60
6	3.77	3.93	4.39	5.53	10.45	12.30	11.38	8.88	3.52	3.34	3.62	3.55
7	3.85	3.91	6.55	6.84	10.45	12.20	11.08	7.35	3.59	3.17	3.58	3.44
8	3.72	3.92	7.24	8.35	10.08	11.80	10.80	6.10	3.58	3.00	3.56	3.26
9	3.67	3.90	6.92	8.63	9.21	11.21	10.14	5.50	3.44	2.94	3.53	3.39
10	3.74	3.88	6.62	9.53	8.44	10.42	9.21	5.15	3.52	3.02	3.80	3.57
11	3.77	3.96	5.78	9.83	8.01	9.56	8.31	5.00	3.63	3.27	3.68	3.58
12	3.71	3.91	5.73	9.66	9.24	9.96	7.52	5.11	3.64	3.39	3.58	3.56
13	3.67	3.92	7.05	9.21	11.00	10.72	6.85	4.81	3.58	3.37	3.59	3.57
14	3.85	3.91	7.08	9.65	11.95	10.87	6.40	4.59	3.64	3.38	3.60	3.61
15	3.83	3.96	6.87	11.17	12.20	10.95	6.10	4.43	3.97	3.51	3.60	3.69
16	3.66	4.08	6.50	11.82	12.08	10.62	5.82	4.32	4.08	3.56	3.58	3.61
17	3.60	4.17	5.94	11.58	11.64	9.87	5.66	4.24	4.00	3.66	3.57	3.72
18	3.62	4.26	5.42	11.49	10.91	9.00	5.81	4.17	4.34	3.62	3.55	3.77
19	3.73	4.27	5.17	11.09	10.12	8.32	7.60	4.09	4.22	3.58	3.65	3.72
20	3.64	4.21	6.70	10.28	9.31	8.12	8.94	4.03	4.10	3.58	3.78	3.74
21	3.65	4.25	8.95	9.41	8.55	8.04	9.55	3.98	4.05	3.55	3.68	3.86
22	3.23	4.26	8.76	8.60	8.01	7.64	10.21	4.00	3.89	3.53	3.88	3.66
23	3.53	4.14	8.33	7.80	7.55	7.16	9.84	3.89	3.80	3.65	4.08	3.57
24	3.85	4.13	7.53	7.66	7.58	6.77	9.11	3.83	3.69	3.88	3.95	3.59
25	3.79	4.37	6.62	8.01	7.72	6.54	8.04	3.86	3.68	3.65	3.78	3.60
26	4.12	4.31	6.77	8.30	7.72	6.42	6.88	3.89	3.59	3.88	3.68	3.60
27	4.15	4.33	6.80	8.29	7.57	6.39	6.12	3.84	3.61	3.86	3.65	3.60
28	3.91	4.40	6.37	7.97	7.14	8.58	5.70	3.91	3.58	3.84	3.75	3.58
29	3.75	4.46	6.12	7.56	---	10.94	5.41	3.94	3.50	3.81	3.84	3.56
30	3.95	4.69	5.69	7.14	---	11.43	4.98	3.81	3.49	3.76	3.94	3.54
31	4.40	---	5.52	6.88	---	11.46	---	3.72	---	3.75	3.76	---
MEAN	3.78	4.16	6.29	8.34	9.19	9.35	8.44	5.11	3.73	3.52	3.75	3.63
MAX	4.40	4.69	8.95	11.82	12.20	12.33	11.56	9.44	4.34	3.88	4.45	3.92
MIN	3.23	3.88	4.38	5.03	6.80	6.34	4.98	3.72	3.44	2.94	3.53	3.26

07372000 DUGDEMONA RIVER NEAR WINNFIELD, LA

LOCATION.--Lat 31°58'30", long 92°39'10", on line between secs.34 and 35, T.12 N., R.3 W., Winn Parish, Hydrologic Unit 08040303, on right bank just downstream from bridge on U.S. Highway 167, 300 ft (91 m) upstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 2.4 mi (3.9 km) downstream from Kyiaies Creek, and 3.5 mi (5.6 km) north of Winnfield.

DRAINAGE AREA.--654 mi² (1,694 km²).

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

REVISED RECORDS.--WSP 1341: Drainage area. WSP 1391: 1939-41.

GAGE.--Water-stage recorder. Datum of gage is 81.14 ft (24.731 m) above mean sea level (Louisiana Geodetic Survey bench mark). Prior to Dec. 19, 1950, nonrecording gage at same site and datum.

REMARKS.--Records fair. Water used by paper mill at Hodge is pumped from wells and discharged into stream about 30 mi (48 km) above station. Part of effluent is discharged continually whenever mill is operating, but that containing waste material is stored in a reservoir and released whenever river flow is sufficient to materially dilute it. Records of dissolved oxygen and water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--38 years, 714 ft³/s (20.22 m³/s), 517,300 acre-ft/yr (638 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,100 ft³/s (767 m³/s) May 19, 1953, gage height, 23.78 ft (7.248 m); no flow at times in 1947, 1954, 1956-57, (result of temporary regulation).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,950 ft³/s (83.5 m³/s) Feb. 15, gage height, 15.43 ft (4.703 m), from floodmark; minimum, 7.8 ft³/s (0.22 m³/s) July 15, gage height, 1.92 ft (0.585 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	33	53	175	360	350	1360	150	27	15	26	20
2	25	35	55	141	337	300	1490	450	27	15	25	20
3	30	38	55	135	320	400	1740	590	26	14	23	19
4	31	36	55	157	340	1000	2170	588	23	13	24	18
5	30	33	54	182	500	1400	2430	640	20	13	30	17
6	28	31	60	198	1000	1400	2260	609	17	14	31	17
7	28	29	102	265	1400	1000	2030	550	16	14	27	15
8	27	25	172	294	1500	900	1840	526	16	14	22	14
9	26	22	214	412	1600	800	1630	548	16	14	18	13
10	26	18	262	659	1800	700	1470	404	16	15	15	14
11	26	17	283	696	2200	700	1290	214	15	16	14	15
12	24	18	326	724	2500	800	1100	133	16	16	15	13
13	22	19	432	744	2700	900	893	102	16	13	16	12
14	23	21	427	988	2800	1000	635	89	19	9.2	22	15
15	22	22	403	1320	2800	1100	393	81	25	7.8	23	17
16	22	24	370	1400	2800	1200	264	73	30	10	21	20
17	22	27	312	1450	2700	1300	206	63	35	12	20	22
18	24	30	238	1460	2600	1300	212	55	42	13	21	20
19	24	33	178	1450	2400	1150	276	50	42	13	22	20
20	22	38	218	1440	2000	1050	334	46	39	15	21	22
21	20	40	340	1430	1500	921	546	42	40	17	17	23
22	21	42	407	1370	1000	781	632	39	38	17	18	22
23	22	41	487	1270	800	644	642	36	33	19	20	22
24	23	39	531	1130	600	509	662	34	29	21	21	22
25	24	39	594	979	400	411	661	32	27	18	23	20
26	24	39	690	800	450	344	644	30	24	19	26	18
27	23	40	637	650	450	305	568	29	21	27	29	17
28	26	46	503	520	400	465	420	28	19	29	31	17
29	32	49	388	450	---	929	261	28	17	28	26	18
30	37	51	298	400	---	1130	173	27	16	28	23	21
31	35	---	229	380	---	1280	---	27	---	27	21	---
TOTAL	793	975	9373	23669	40257	26469	29232	6313	747	516.0	691	543
MEAN	25.6	32.5	302	764	1438	854	974	204	24.9	16.6	22.3	18.1
MAX	37	51	690	1460	2800	1400	2430	640	42	29	31	23
MIN	20	17	53	135	320	300	173	27	15	7.8	14	12
AC-FT	1570	1930	18590	46950	79850	52500	57980	12520	1480	1020	1370	1080

CAL YR 1976 TOTAL 172948.0 MEAN 473 MAX 4910 MIN 17 AC-FT 343000
WTR YR 1977 TOTAL 139578.0 MEAN 382 MAX 2800 MIN 7.8 AC-FT 276900

RED RIVER BASIN

07372000 DUGDEMONA RIVER NEAR WINNFELD, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.21	2.82	3.62	5.36	---	---	12.57	4.53	2.49	2.19	2.46	2.57
2	2.24	2.92	3.66	4.99	6.86	---	12.97	7.69	2.49	2.17	2.41	2.58
3	2.34	3.01	3.66	4.93	---	---	13.63	8.86	2.46	2.14	2.39	2.55
4	2.36	2.96	3.67	5.16	---	---	14.35	8.85	2.38	2.12	2.42	2.52
5	2.34	2.90	3.64	5.44	---	---	14.72	9.17	2.32	2.13	2.59	2.50
6	2.31	2.90	3.76	5.61	---	---	14.48	8.98	2.23	2.15	2.63	2.53
7	2.30	2.87	4.47	6.28	---	---	14.14	8.60	2.21	2.15	2.53	2.48
8	2.27	2.78	5.32	6.57	---	---	13.82	8.43	2.20	2.15	2.40	2.43
9	2.24	2.70	5.79	7.56	---	---	13.41	8.59	2.20	2.15	2.30	2.42
10	2.24	2.63	6.27	9.28	---	---	12.92	7.35	2.20	2.18	2.22	2.45
11	2.24	2.61	6.46	9.50	---	---	12.33	5.32	2.19	2.21	2.19	2.49
12	2.20	2.64	6.87	9.66	---	---	11.61	4.30	2.20	2.22	2.23	2.45
13	2.16	2.71	7.77	9.77	---	---	10.60	3.83	2.20	2.10	2.27	2.40
14	2.17	2.78	7.73	11.06	---	---	9.12	3.61	2.29	1.98	2.45	2.54
15	2.16	2.80	7.54	12.42	---	---	7.26	3.49	2.43	1.92	2.50	2.61
16	2.14	2.88	7.26	12.70	---	---	5.91	3.35	2.54	2.01	2.45	2.71
17	2.14	2.98	6.74	12.84	---	---	5.24	3.17	2.65	2.07	2.44	2.75
18	2.20	3.08	6.04	12.90	---	---	5.31	3.03	2.79	2.11	2.46	2.72
19	2.20	3.15	5.39	12.84	---	11.84	6.06	2.93	2.78	2.13	2.51	2.72
20	2.15	3.28	5.82	12.82	---	11.39	6.67	2.85	2.73	2.19	2.49	2.77
21	2.11	3.34	6.99	12.78	---	10.74	8.54	2.78	2.75	2.24	2.39	2.81
22	2.13	3.38	7.56	12.61	---	9.98	9.12	2.72	2.71	2.24	2.42	2.80
23	2.16	3.35	8.18	12.26	---	9.19	9.18	2.68	2.61	2.29	2.49	2.81
24	2.18	3.31	8.46	11.74	---	8.28	9.30	2.63	2.53	2.34	2.51	2.81
25	2.21	3.30	8.88	11.05	---	7.45	9.29	2.59	2.47	2.28	2.58	2.79
26	2.21	3.32	9.47	---	---	6.78	9.19	2.56	2.41	2.30	2.66	2.73
27	2.24	3.33	9.15	---	---	6.38	8.72	2.52	2.34	2.48	2.76	2.69
28	2.39	3.48	8.28	---	---	7.80	7.51	2.51	2.29	2.51	2.81	2.71
29	2.61	3.53	7.40	---	---	10.78	5.88	2.50	2.24	2.50	2.71	2.73
30	2.79	3.57	6.61	---	---	11.72	4.82	2.48	2.21	2.49	2.63	2.80
31	2.79	---	5.94	---	---	12.29	---	2.48	---	2.47	2.58	---
MEAN	2.27	3.04	6.40	---	---	---	9.96	4.69	2.42	2.21	2.48	2.63
MAX	2.79	3.57	9.47	12.90	---	---	14.72	9.17	2.79	2.51	2.81	2.81
MIN	2.11	2.61	3.62	4.93	---	---	4.82	2.48	2.19	1.92	2.19	2.40

07372190 LITTLE RIVER AT ROCHELLE, LA

LOCATION.--Lat 31°47'35", long 92°21'42", in NE¼ sec.4, T.9 N., R.1 E., Grant-La Salle Parish line, Hydrologic Unit 08040304, near center of channel on downstream side of bridge on U.S. Highway 165, at Rochelle, 5.0 mi (8.0 km) upstream from gaging station Little River near Rochelle (sta 07372200).

DRAINAGE AREA.--1,892 mi² (4,900 km²).

PERIOD OF RECORD.--October 1973 to current year (gage heights only). Gage heights October 1938 to November 1946, February 1948 to September 1957 in files of Corps of Engineers. Unpublished records from November 1957 to September 1973 available in files of the Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is 24.79 ft (7.556 m) above mean sea level (Corps of Engineers bench mark). Prior to May 9, 1960, nonrecording gage 0.1 mi (0.2 km) upstream at same datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.43 ft (13.237 m) Apr. 14, 1974; minimum, 7.18 ft (2.188 m) July 9, 10, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1938, 50.90 ft (15.514 m) May 19, 1953, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 37.55 ft (11.445 m) Mar. 7; minimum, 7.18 ft (2.188 m) July 9, 10.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.82	7.78	9.26	16.02	19.08	14.03	25.40	16.80	8.86	7.57	8.32	9.60
2	7.76	7.82	9.28	14.65	23.98	13.37	27.91	17.97	8.60	7.49	8.17	9.24
3	7.70	7.86	9.41	13.89	25.22	16.25	28.81	22.88	8.33	7.43	7.99	9.02
4	7.64	8.01	9.48	13.90	25.18	31.41	29.03	24.02	8.15	7.37	7.88	8.74
5	7.62	8.15	9.51	14.54	24.45	35.10	28.76	23.08	8.27	7.32	7.79	8.49
6	7.65	8.32	9.70	15.49	---	37.13	28.32	21.49	8.88	7.29	7.75	8.34
7	7.65	8.44	10.33	16.68	---	37.48	27.93	19.81	8.60	7.23	7.89	8.16
8	7.62	8.37	11.69	17.69	---	36.85	27.60	18.33	8.41	7.20	7.84	7.99
9	7.61	8.24	11.91	20.32	---	36.02	27.16	17.20	8.29	7.19	7.78	7.91
10	7.65	8.13	12.34	26.14	---	35.27	26.51	16.53	8.02	7.19	7.69	7.87
11	7.65	8.02	12.69	26.36	---	34.66	25.63	16.09	7.84	7.46	7.58	7.88
12	7.61	7.90	13.58	25.92	19.75	34.95	24.50	15.18	7.72	7.42	7.54	7.81
13	7.58	7.80	15.54	26.72	20.82	35.81	23.18	13.71	7.64	7.49	7.57	7.67
14	7.56	7.77	16.37	27.26	21.48	36.76	21.71	12.27	7.72	7.47	7.68	7.59
15	7.53	7.70	16.47	27.31	21.51	36.95	20.13	11.17	8.14	7.39	7.59	7.56
16	7.49	7.69	16.22	27.06	21.35	36.42	18.29	10.68	8.39	7.38	7.54	7.53
17	7.45	7.65	15.77	26.78	21.09	35.66	16.33	10.31	9.47	7.32	7.50	7.47
18	7.44	7.64	15.20	26.50	20.82	34.84	15.08	10.09	10.25	7.28	8.21	7.43
19	7.44	7.69	14.49	26.15	20.59	33.89	15.31	9.90	9.83	7.33	9.56	7.44
20	7.42	7.81	13.95	25.65	20.47	32.75	16.54	9.71	9.46	7.33	9.28	7.49
21	7.40	8.03	14.33	24.92	20.52	31.36	19.11	9.56	9.02	7.42	9.12	7.51
22	7.43	8.30	15.19	24.16	20.62	---	23.89	9.41	8.68	7.59	9.66	7.49
23	7.42	8.40	15.73	---	20.59	---	25.54	9.21	8.46	7.57	9.25	7.47
24	7.37	8.41	15.82	---	20.37	24.48	25.66	9.16	8.35	7.51	9.38	7.53
25	7.35	8.43	16.28	---	19.89	21.41	24.72	9.15	8.27	7.44	9.85	7.57
26	7.34	8.48	18.94	22.33	18.93	18.89	23.59	9.09	8.16	7.63	9.83	7.55
27	7.33	8.46	20.58	21.43	17.27	17.16	22.43	9.03	8.03	8.41	9.58	7.49
28	7.31	8.72	20.88	20.37	15.36	16.80	21.01	8.99	7.91	8.77	9.68	7.45
29	7.36	9.20	20.46	19.02	---	19.89	19.46	8.96	7.79	8.43	11.39	7.43
30	7.58	9.38	19.33	17.53	---	22.11	18.06	8.93	7.67	8.38	11.44	7.37
31	7.57	---	17.72	16.42	---	22.77	---	8.89	---	8.37	10.46	---
MEAN	7.53	8.15	14.47	---	---	---	23.25	13.47	8.44	7.57	8.67	7.87
MAX	7.82	9.38	20.88	27.31	25.22	37.48	29.03	24.02	10.25	8.77	11.44	9.60
MIN	7.31	7.64	9.26	13.89	15.36	13.37	15.08	8.89	7.64	7.19	7.50	7.37

07372200 LITTLE RIVER NEAR ROCHELLE, LA

LOCATION.--Lat 31°45'15", long 92°20'40", in SW¼SW¼ sec.14, T.9 N., R.1 E., Grant-La Salle Parish line, Hydrologic Unit 08040304, near right bank on downstream side of pier of bridge on State Highway 500, 700 ft (213 m) upstream from Louisiana Midland Railway Co. bridge, 1.1 mi (1.8 km) northeast of Zenoria, and 3.0 mi (4.8 km) southeast of Rochelle.

DRAINAGE AREA.--1,899 mi² (4,918 km²).

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

REVISED RECORDS.--WRD LA, 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.79 ft (7.556 m) above mean sea level (Corps of Engineers bench mark). Auxiliary water-stage recorder 5.0 mi (8.0 km) upstream (see sta 07372190) from base gage at same datum. Prior to May 9, 1960, auxiliary nonrecording gage 5.1 mi (8.2 km) upstream from base gage at same datum.

REMARKS.--Water-discharge records good except those for periods of no gage-height record, which are fair. Natural flow is supplemented by effluent from operation of several oilfields upstream from station.

AVERAGE DISCHARGE.--20 years, 2,018 ft³/s (57.14 m³/s), 14.43 in/yr (367 mm/yr), 1,460,000 acre-ft/yr (1.80 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft³/s (1,550 m³/s) Apr. 14, 1974, gage height, 40.20 ft (12.253 m); minimum daily, 14 ft³/s (0.40 m³/s) Oct. 20-29, 1967; minimum gage height, 5.10 ft (1.554 m) Oct. 27, 28, 29, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,000 ft³/s (510 m³/s) Mar. 7, gage height, 34.90 ft (10.638 m), from floodmark; minimum, 30 ft³/s (0.85 m³/s) July 9, 10, 11, gage height, 5.49 ft (1.673 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	52	183	1160	1500	1000	3370	840	104	55	94	237
2	62	57	180	909	2800	800	4210	1340	115	49	89	199
3	61	59	192	779	3500	1500	4650	2700	113	45	78	176
4	59	65	199	780	3500	3500	4770	2770	107	42	69	151
5	58	75	204	884	3300	9000	4680	2690	111	40	63	127
6	56	86	223	1050	3000	16000	4540	2300	144	39	59	113
7	56	97	299	1270	2800	17000	4410	1900	129	35	63	98
8	54	96	455	1470	2600	15000	4290	1590	108	32	64	85
9	55	89	492	2070	2400	12100	4120	1360	99	31	61	78
10	54	82	548	3540	2200	10100	3870	1240	82	30	57	74
11	53	74	599	4000	2100	8970	3530	1150	70	35	53	73
12	52	66	724	4000	2000	9350	3160	964	63	40	48	71
13	51	60	1040	4200	1900	10900	2820	692	59	43	50	63
14	50	59	1220	4500	2200	13800	2410	486	63	51	54	57
15	49	54	1240	4500	2400	15100	2000	370	84	45	51	53
16	48	52	1200	4400	2500	13300	1530	309	99	41	50	51
17	47	52	1120	4300	2500	11000	1020	270	167	37	47	48
18	46	50	1010	4100	2400	9310	714	247	281	36	77	45
19	45	51	881	4000	2300	7890	849	227	247	35	214	45
20	45	57	789	3800	2200	6710	1180	205	208	36	207	47
21	45	67	845	3600	2100	5630	1700	189	164	37	187	47
22	44	84	995	3500	2300	4500	2810	171	132	45	236	47
23	44	96	1100	3300	2300	3500	3350	162	112	46	202	46
24	44	98	1120	3100	2200	2750	3320	150	102	45	205	47
25	43	100	1200	2900	2000	2140	2960	143	95	42	250	50
26	43	105	1670	2610	1800	1610	2720	138	88	45	256	50
27	43	105	2070	2380	1600	1250	2410	126	80	78	233	48
28	42	122	2170	2110	1300	1240	1950	118	73	123	226	45
29	42	167	2080	1790	---	1990	1440	112	66	110	408	44
30	45	190	1850	1450	---	2550	1140	106	60	101	438	41
31	48	---	1510	1200	---	2740	---	102	---	99	327	---
TOTAL	1548	2467	29408	83652	65700	222230	85923	25167	3425	1568	4516	2356
MEAN	49.9	82.2	949	2698	2346	7169	2864	812	114	50.6	146	78.5
MAX	64	190	2170	4500	3500	17000	4770	2770	281	123	438	237
MIN	42	50	180	779	1300	800	714	102	59	30	47	41
CFSM	.03	.04	.50	1.42	1.24	3.78	1.51	.43	.06	.03	.08	.04
IN.	.03	.05	.58	1.64	1.29	4.35	1.68	.49	.07	.03	.09	.05
AC-FT	3070	4890	58330	165900	130300	440800	170400	49920	6790	3110	8960	4670

CAL YR 1976 TOTAL 480680 MEAN 1313 MAX 8760 MIN 42 CFSM .69 IN 9.42 AC-FT 953400
WTR YR 1977 TOTAL 527960 MEAN 1446 MAX 17000 MIN 30 CFSM .76 IN 10.34 AC-FT 1047000

NOTE.--No gage height record Jan. 31 to Mar. 8.

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.13	---	7.56	14.11	---	---	23.19	16.27	8.61	6.03	6.49	8.05
2	6.12	---	7.48	12.81	---	---	25.57	16.89	8.19	5.92	6.40	7.57
3	6.11	6.00	7.57	12.01	---	---	26.23	20.89	7.73	5.82	6.24	7.32
4	6.10	6.09	7.64	11.88	---	---	26.37	22.27	7.32	5.74	6.10	7.07
5	6.09	6.24	7.69	12.37	---	---	26.12	21.19	7.09	5.71	6.00	6.80
6	---	6.39	7.84	13.22	---	---	25.59	19.70	7.16	5.70	5.91	6.61
7	---	6.54	8.60	14.32	---	---	25.10	18.17	7.11	5.59	5.96	6.43
8	---	6.55	9.57	15.30	---	---	24.73	16.76	6.80	5.54	5.99	6.26
9	---	6.48	9.91	17.71	---	33.27	24.37	15.66	6.67	5.51	5.95	6.16
10	---	6.38	10.29	22.32	---	32.27	23.86	14.94	6.46	5.49	5.88	6.08
11	---	6.26	10.62	---	---	31.55	23.15	14.49	6.28	5.56	5.80	6.07
12	---	6.14	11.32	---	---	31.70	22.21	13.74	6.16	5.69	5.71	6.05
13	---	6.05	13.00	---	---	32.42	21.09	12.49	6.10	5.77	5.73	5.95
14	---	6.04	14.07	---	---	33.61	19.84	11.23	6.17	5.97	5.80	5.84
15	---	5.95	14.22	---	---	34.18	18.50	10.32	6.41	5.76	5.78	5.77
16	---	5.91	14.04	---	---	33.71	17.02	9.80	6.62	5.72	5.74	5.74
17	---	5.90	13.65	---	---	32.77	15.45	9.50	7.17	5.64	5.67	5.69
18	---	5.88	13.16	---	---	31.81	14.40	9.33	8.31	5.58	6.04	5.64
19	---	5.90	12.54	---	---	30.90	14.37	9.21	8.18	5.55	7.65	5.64
20	---	5.99	12.01	---	---	29.96	15.20	9.09	7.83	5.58	7.74	5.66
21	---	6.11	12.10	---	---	28.90	17.67	8.99	7.44	5.57	7.43	5.67
22	---	6.36	12.86	---	---	28.10	22.04	8.92	7.10	5.70	7.79	5.67
23	---	6.54	13.42	---	---	24.89	23.40	8.84	6.84	5.75	7.64	5.65
24	---	6.58	13.57	---	---	22.90	23.64	8.76	6.69	5.74	7.53	5.66
25	---	6.61	13.96	---	---	19.95	22.86	8.74	6.60	5.68	7.91	5.70
26	---	6.67	16.16	19.92	---	17.56	21.81	8.74	6.51	5.69	8.06	5.71
27	---	6.68	17.85	19.10	---	15.93	20.85	8.70	6.40	6.15	7.92	5.68
28	---	6.86	18.22	18.18	---	15.40	19.74	8.70	6.30	6.80	7.68	5.64
29	---	7.34	17.93	17.01	---	17.84	18.56	8.69	6.21	6.71	9.05	5.61
30	---	7.57	17.03	15.72	---	19.78	17.37	8.68	6.12	6.56	9.59	5.58
31	---	---	15.64	---	---	20.31	---	8.66	---	6.52	8.93	---
MEAN	---	---	12.31	---	---	---	21.34	12.53	6.95	5.83	6.84	6.10
MAX	6.13	7.57	18.22	---	---	---	26.37	22.27	8.61	6.80	9.59	8.05
MIN	---	5.88	7.48	11.88	---	---	14.37	8.66	6.10	5.49	5.67	5.58

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1965 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1964 to current year.

INSTRUMENTATION.--Specific conductance recorder (strip chart) since October 1964.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 26,800 micromhos Dec. 4, 1965; minimum, 40 micromhos Apr. 11-13, 1968, June 12-16, 1975.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,550 micromhos July 27; minimum, 50 micromhos Mar. 7, 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. 7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT 28...	0845	49	918	7.8	13.5	200	30	8.6	2.7	--	100	170
NOV 24...	1900	98	995	7.6	12.0	240	15	10.4	4.9	--	B100	250
DEC 16...	1730	1180	198	6.6	8.5	100	20	10.9	3.9	--	160	230
JAN 22...	1400	E3500	93	6.7	3.5	90	20	12.0	4.1	--	B180	--
FEB 18...	0830	E2400	149	6.9	10.5	120	25	9.7	2.8	--	--	--
MAR 07...	1700	E17000	49	5.8	13.0	90	30	7.7	--	900	500	--
APR 13...	1700	2870	125	6.9	19.0	120	25	7.6	3.8	--	100	--
MAY 11...	1645	1140	170	7.0	22.5	100	30	7.0	1.0	--	98	--
JUN 22...	1015	135	535	7.3	28.0	140	35	6.3	--	B40	<5	--
JUL 26...	0910	41	1100	6.9	28.5	200	40	4.2	3.7	--	B250	--
AUG 09...	1530	54	591	7.8	32.0	70	30	6.4	1.1	B36	B22	--
SEP 07...	1555	95	415	7.4	28.5	55	25	--	2.6	B20	--	--

DATE	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)
OCT 28...	--	53	0	16	3.1	170	86	10	6.5	169	0	139
NOV 24...	--	--	--	--	--	--	--	--	--	141	0	116
DEC 16...	--	29	11	8.9	1.7	23	60	1.9	3.8	22	0	18
JAN 22...	360	12	1	3.5	.8	11	62	1.4	2.2	13	0	11
FEB 18...	88	28	11	5.7	3.3	20	58	1.7	2.9	21	0	17
MAR 07...	160	11	4	2.9	1.0	5.0	44	.6	2.0	8	0	7
APR 13...	<5	25	3	7.2	1.7	16	56	1.4	2.3	27	0	22
MAY 11...	290	17	0	4.5	1.5	24	72	2.5	2.6	25	0	21
JUN 22...	88	44	0	13	2.8	90	80	5.9	4.1	84	0	69
JUL 26...	1000	63	0	19	3.8	210	86	12	7.8	179	0	150
AUG 09...	48	56	0	18	2.6	94	77	5.5	4.6	100	0	82
SEP 07...	750	46	0	15	2.1	60	72	3.8	4.1	64	0	53

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN IN BOTTOM MATERI- AL (N) (MG/KG)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO + HYDRO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO + HYDRO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)
OCT 28...	--	--	--	--	--	--	--	--	--	--	--
NOV 24...	--	--	--	--	--	--	--	--	--	--	--
DEC 16...	5200	1.2	5200	.07	.03	.00	.03	.01	.04	.02	150
JAN 22...	--	--	--	.04	.01	.01	.01	.01	.03	.01	--
FEB 18...	--	.74	--	.06	.02	.00	.02	.01	.04	.00	--
MAR 07...	--	--	--	.06	--	--	--	--	--	--	--
APR 13...	--	--	--	.09	--	--	--	--	--	--	--
MAY 11...	1700	1.1	1700	.11	.05	.00	.05	.01	.06	.00	99
JUN 22...	--	--	--	.15	--	--	--	--	--	--	--
JUL 26...	--	--	--	.39	--	--	--	--	--	--	--
AUG 09...	--	2.3	--	.21	.16	.02	.16	.07	.05	.02	--
SEP 07...	--	--	--	.14	--	--	--	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)
DEC 16...	2	2	0	<10	10	0	5	<10	260	11000	2	20
JAN 22...	2	--	0	--	--	0	9	--	230	--	2	--
FEB 18...	0	--	0	--	--	0	14	--	180	--	2	--
MAY 11...	1	3	0	<10	<10	0	3	<10	190	3500	2	<10
AUG 09...	1	--	0	--	--	0	1	--	400	--	3	--

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
DEC 16...	120	360	.0	.0	8	20	5.4	.00	0	0	55
JAN 22...	80	--	.0	--	10	--	7.0	--	--	--	13000
FEB 18...	70	--	.0	--	40	--	7.4	--	--	--	1600
MAY 11...	210	120	.0	.3	20	30	8.0	.00	0	4	--
AUG 09...	280	--	.0	--	6	--	13	--	--	--	--

DATE	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)
MAY 11...	.0	0	.00	.0	.00	.0	.0	0	.00	.0	.00

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)
MAY 11...	.00	.0	.04	.0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)
MAY 11...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	POTEN- TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
MAY 11...	.0	.00	.0	0	0	.00	.0	.09	.07	.00	1.0

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV. 2, 1976...	1405	21.0	13.0	--	JULY 13.....	1020	27.5	29.0	5.4
DEC. 10.....	1015	18.0	7.5	9.6	AUG. 22.....	1105	32.0	27.5	--
JAN. 25, 1977...	1200	13.5	0.5	13.1	SEPT. 6.....	1105	30.5	27.5	--
MAR. 8.....	1110	24.0	14.0	--	SEPT. 26.....	1305	28.0	32.0	--
APR. 18.....	1030	21.5	20.5	6.2	SEPT. 27.....	1030	35.5	27.5	5.2
JUNE 15.....	1050	30.0	26.0	4.8					

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	545	---	1200	130	200	250	175	160	530	645	1280	390
2	590	---	910	160	220	230	125	200	570	660	900	545
3	590	---	1130	265	305	260	90	250	540	690	980	385
4	600	---	830	---	250	255	95	115	580	740	880	320
5	620	---	640	---	240	85	100	110	565	745	500	325
6	630	---	600	---	215	55	100	115	490	740	415	350
7	650	---	730	260	110	50	95	125	480	760	395	375
8	670	---	1030	230	115	50	90	130	610	780	445	400
9	700	590	800	250	120	55	95	155	520	880	520	440
10	690	610	600	180	130	55	105	185	430	840	650	690
11	680	670	480	100	150	65	110	180	860	870	795	520
12	680	690	460	90	200	70	120	155	880	880	880	530
13	690	740	480	90	220	85	120	160	660	870	935	560
14	700	790	310	130	185	70	130	180	---	880	970	700
15	670	830	250	140	160	65	140	210	---	890	900	815
16	680	800	190	100	155	65	155	230	---	900	765	1030
17	710	830	180	90	150	70	185	255	---	1020	810	995
18	750	910	160	95	140	75	210	270	980	1050	1120	1140
19	770	970	150	80	130	80	240	290	380	1050	980	1010
20	790	960	190	80	135	85	230	310	460	1080	810	1010
21	800	980	220	80	140	95	350	330	670	1160	880	950
22	800	1230	340	90	160	115	250	340	580	1250	1110	970
23	860	1250	230	100	170	130	120	360	540	1220	820	935
24	930	990	170	120	185	145	105	380	520	1160	730	930
25	890	910	210	170	205	155	110	400	550	1100	610	880
26	880	920	270	170	240	160	105	410	585	1030	590	1000
27	880	1050	175	200	250	175	100	425	610	1550	475	900
28	870	1100	125	220	265	240	105	435	620	1150	440	810
29	880	1000	115	230	---	295	120	460	640	1080	550	805
30	910	1200	120	220	---	150	145	510	640	1230	395	800
31	920	---	130	180	---	135	---	490	---	1420	385	---

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DEC. 16, 1976 1730 HOURS

PHYTOPLANKTON 55 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..ZYGNEATALES		
...DESMIDIACEAE		
....STAUSTRUM	3	5
CYANOPHYTA		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIAEAE		
....OSCILLATORIA	52	95

JAN. 22, 1977 1400 HOURS

PHYTOPLANKTON 13,000 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS		0
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CARTERIA	240	1
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...SURIPELLACEAE		
....SURIPELLA		0
CYANOPHYTA		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	13,000	99

FEB. 18, 1977 0830 HOURS

PHYTOPLANKTON 1,600 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...MICRACTINIAEAE		
....MICRACTINIUM	16	1
...OOCYSTACEAE		
....ANKISTRODESMUS	110	7
...CHODATELLA	5	0
...DICTYOSPHAERIUM	82	5
...SELENASTRUM	16	1
...SCENEDESMACEAE		
....SCENEDESMUS	55	3
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	5	0
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCAEAE		
....MELOSIRA	11	1
..PENNALES		
...NITZSCHIAEAE		
....NITZSCHIA	27	2
CYANOPHYTA		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	1,100	69
...OSCILLATORIALES		
...OSCILLATORIAEAE		
....LYNGBYA	160	10
PYRRHOPHYTA		
.DINOPHYCEAE		
..PERIDINIALES		
...GLENODINIACEAE		
....GLENODINIUM	5	0

07373000 BIG CREEK AT POLLOCK, LA
(Hydrologic bench-mark station)

LOCATION.--Lat 31°32'10", Long 92°24'30", in SW¼SE¼ sec.31, T.7 N., R.1 E., Grant Parish, Hydrologic Unit 08040304, near right bank on downstream side of bridge on U.S. Highway 165, 0.5 mi (0.8 km) upstream from Sugar Branch, 0.6 mi (1.0 km) upstream from Missouri Pacific Railroad Co. bridge, 0.8 mi (1.3 km) upstream from water-supply diversion dam, 0.8 mi (1.3 km) north of Pollock, and 1.3 mi (2.1 km) downstream from Dyson Creek.

DRAINAGE AREA.--51 mi² (132 km²).

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

REVISED RECORDS.--WRD-LA 75-1: 1958(M), 1966(M).

GAGE.--Duplex water-stage recorder (rain gage, water stage, and water temperature combination), concrete control since July 16, 1954.

Datum of gage is 76.69 ft (23.375 m) above mean sea level. Prior to Feb. 25, 1942, nonrecording gage, and Feb. 25, 1942, to June 21, 1955, water-stage recorder at site 0.3 mi (0.5 km) downstream at same datum, June 21, 1955, to May 18, 1964, water-stage recorder at present site and datum.

REMARKS.--Water-discharge record good. Supplementary recording rain gage 3.8 mi (6.1 km) northwest of gaging station since June 26, 1964.

AVERAGE DISCHARGE.--35 years, 59.8 ft³/s (1.694 m³/s), 15.92 in/yr (404 mm/yr), 43,330 acre-ft/yr (53.4 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft³/s (666 m³/s) Apr. 29, 1953, gage height, 18.03 ft (5.496 m), 16.90 ft (5.151 m), site then in use; minimum, 3.7 ft³/s (0.10 m³/s) Sept. 29, 1956, gage height, 1.08 ft (0.329 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft³/s (18.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 4	0230	*9020 255	*15.41 4.697	Apr. 21	1700	1060 30.0	9.13 2.783
Apr. 1	0730	705 20.0	7.65 2.332				

Minimum discharge, 14 ft³/s (0.37 m³/s) many days, minimum gage height, 2.94 ft (0.896 m) July 1, 2, Aug. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	29	30	47	31	570	40	18	14	16	27
2	17	20	27	34	45	30	284	350	18	15	15	23
3	16	19	27	57	214	915	112	347	18	16	15	22
4	16	18	25	56	213	4070	93	107	18	23	15	21
5	17	18	25	56	81	428	71	65	24	19	16	20
6	17	18	45	62	60	201	56	54	20	60	16	22
7	16	18	76	74	50	110	49	49	17	29	24	22
8	16	17	38	48	47	81	46	46	16	19	17	26
9	17	17	30	273	45	69	42	42	16	17	15	47
10	16	18	28	146	42	63	39	40	16	29	14	87
11	16	18	32	68	57	71	37	36	16	26	22	36
12	16	20	89	54	91	377	35	34	16	21	36	28
13	16	20	66	65	73	200	34	32	20	19	30	29
14	16	36	41	310	54	85	33	31	34	18	60	36
15	16	32	41	105	46	71	32	29	52	16	29	30
16	16	25	36	68	41	62	32	28	34	17	22	28
17	16	22	32	53	40	54	35	27	31	18	18	25
18	16	21	30	49	40	52	52	27	25	16	65	24
19	16	25	30	45	39	49	71	26	21	15	99	25
20	16	36	49	43	37	49	87	26	19	16	35	27
21	16	32	43	41	36	46	608	25	18	30	33	25
22	16	25	36	39	35	42	368	25	18	18	99	21
23	16	22	34	45	36	39	110	25	17	17	80	20
24	16	22	33	74	40	38	74	24	16	19	36	20
25	17	21	116	53	36	42	60	23	16	18	29	19
26	16	25	95	45	34	41	50	23	16	19	25	18
27	16	30	49	42	35	39	45	23	15	16	40	18
28	16	42	40	40	32	56	41	22	15	43	99	17
29	23	65	37	36	---	54	39	22	15	23	45	16
30	53	35	35	36	---	46	36	20	14	30	36	16
31	28	---	33	46	---	56	---	19	---	22	30	---
TOTAL	559	758	1347	2193	1646	7567	3241	1687	609	678	1131	795
MEAN	18.0	25.3	43.5	70.7	58.8	244	108	54.4	20.3	21.9	36.5	26.5
MAX	53	65	116	310	214	4070	608	350	52	60	99	87
MIN	16	17	25	30	32	30	32	19	14	14	14	16
CFSM	.35	.50	.85	1.39	1.15	4.78	2.12	1.07	.40	.43	.72	.52
IN.	.41	.55	.98	1.60	1.20	5.52	2.36	1.23	.44	.49	.82	.58
AC-FT	1110	1500	2670	4350	3260	15010	6430	3350	1210	1340	2240	1580
(†)	1.69	3.00	4.27	4.31	2.04	9.95	5.08	2.47	3.73	2.34	7.62	2.50
(‡)	1.59	3.26	4.58	4.68	2.10	11.55	4.88	2.25	3.05	4.53	7.46	2.61
CAL YR 1976 TOTAL	17676			MEAN 48.3	MAX 481	MIN 16	CFSM .95	IN 12.89	AC-FT 35060			
WTR YR 1977 TOTAL	22211			MEAN 60.9	MAX 4070	MIN 14	CFSM 1.19	IN 16.20	AC-FT 44060			

† Precipitation, in inches, during month at rain gage at station. Total for calendar year 1976, 46.58 inches; total for water year 1977, 49.00 inches.

‡ Precipitation, in inches, during month at rain gage upstream. Total for calendar year 1976, 47.87 inches; total for water year 1977, 52.54 inches.

RED RIVER BASIN

07373000 BIG CREEK AT POLLOCK, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.03	3.07	3.18	3.19	3.36	3.20	6.83	3.30	3.03	2.95	2.99	3.15
2	3.01	3.05	3.15	3.23	3.34	3.19	4.80	5.20	3.03	2.96	2.97	3.10
3	3.00	3.04	3.15	3.44	4.35	5.78	3.74	5.16	3.02	2.98	2.97	3.08
4	2.99	3.03	3.13	3.43	4.20	12.10	3.65	3.72	3.03	3.10	2.96	3.07
5	3.01	3.02	3.13	3.43	3.59	5.79	3.53	3.49	3.11	3.04	2.98	3.06
6	3.02	3.02	3.34	3.47	3.46	4.14	3.43	3.42	3.05	3.46	2.99	3.09
7	3.00	3.02	3.56	3.55	3.39	3.73	3.38	3.38	3.01	3.17	3.11	3.08
8	3.00	3.01	3.28	3.37	3.36	3.59	3.35	3.35	2.99	3.04	3.01	3.14
9	3.01	3.01	3.19	4.75	3.34	3.52	3.32	3.32	2.99	3.01	2.96	3.36
10	3.00	3.02	3.16	3.89	3.32	3.48	3.29	3.30	2.98	3.17	2.95	3.62
11	2.99	3.03	3.21	3.51	3.44	3.53	3.27	3.25	2.98	3.14	3.09	3.26
12	2.98	3.05	3.63	3.42	3.64	5.41	3.24	3.23	2.98	3.07	3.25	3.16
13	2.98	3.05	3.50	3.49	3.54	4.22	3.23	3.21	3.05	3.04	3.19	3.17
14	2.98	3.26	3.31	4.63	3.42	3.61	3.22	3.20	3.23	3.02	3.46	3.26
15	2.98	3.21	3.31	3.71	3.35	3.53	3.21	3.18	3.40	3.00	3.18	3.19
16	2.98	3.12	3.26	3.51	3.31	3.47	3.21	3.16	3.23	3.01	3.08	3.16
17	2.99	3.09	3.21	3.41	3.30	3.42	3.24	3.15	3.20	3.03	3.02	3.13
18	2.98	3.07	3.19	3.38	3.30	3.40	3.40	3.15	3.13	2.99	3.49	3.11
19	2.99	3.13	3.19	3.34	3.29	3.38	3.53	3.14	3.07	2.97	3.68	3.12
20	2.98	3.26	3.38	3.33	3.27	3.38	3.57	3.14	3.04	2.99	3.24	3.15
21	2.98	3.21	3.33	3.31	3.25	3.35	6.79	3.13	3.03	3.19	3.22	3.12
22	2.99	3.12	3.25	3.29	3.24	3.32	5.34	3.12	3.02	3.03	3.68	3.07
23	2.99	3.08	3.23	3.34	3.25	3.29	3.73	3.12	3.01	3.01	3.58	3.06
24	2.98	3.08	3.22	3.55	3.30	3.28	3.55	3.11	3.00	3.04	3.26	3.06
25	3.01	3.07	3.71	3.41	3.25	3.32	3.46	3.10	2.98	3.02	3.17	3.04
26	3.00	3.13	3.66	3.34	3.23	3.31	3.39	3.10	2.98	3.04	3.12	3.03
27	2.99	3.19	3.38	3.32	3.24	3.29	3.34	3.10	2.97	2.99	3.30	3.02
28	2.98	3.32	3.30	3.30	3.21	3.43	3.31	3.09	2.97	3.33	3.68	3.01
29	3.10	3.49	3.27	3.26	---	3.42	3.29	3.08	2.96	3.10	3.34	3.00
30	3.41	3.24	3.24	3.26	---	3.35	3.26	3.05	2.95	3.19	3.25	2.99
31	3.16	---	3.22	3.35	---	3.39	---	3.04	---	3.09	3.19	---
MEAN	3.02	3.12	3.30	3.49	3.41	3.96	3.73	3.34	3.05	3.07	3.20	3.13
MAX	3.41	3.49	3.71	4.75	4.35	12.10	6.83	5.20	3.40	3.46	3.68	3.62
MIN	2.98	3.01	3.13	3.19	3.21	3.19	3.21	3.04	2.95	2.95	2.95	2.99

07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1964 to September 1973, October 1974 to current year.

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 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. /100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT 28...	0950	16	59	7.2	10.5	20	5	10.8	2.6	620	350	280
NOV 24...	1730	26	47	6.5	13.0	15	3	11.3	4.9	8250	8160	320
DEC 13...	1900	47	41	6.4	10.0	50	9	10.6	1.6	710	190	410
JAN 22...	1300	39	41	6.9	4.0	20	9	12.3	3.6	8200	864	--
FEB 14...	1645	52	40	6.6	11.5	40	10	10.6	3.8	--	86	--
MAR 07...	1400	105	32	6.1	12.0	40	20	10.9	--	400	120	--
APR 13...	1530	34	41	7.0	18.0	40	9	8.8	1.4	240	820	--
MAY 09...	2000	41	40	6.7	21.0	40	10	--	--	--	840	--
JUN 22...	0845	18	44	6.7	24.5	20	10	7.5	1.8	360	8130	--
JUL 26...	0820	18	42	6.1	25.0	50	15	7.1	1.3	2000	840	--
AUG 08...	1615	15	41	7.2	27.5	10	9	7.5	.4	200	140	--
SEP 07...	1510	22	43	7.0	26.0	45	8	--	1.7	130	--	--

DATE	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
OCT 28...	--	7	0	2.0	.5	7.5	64	1.2	1.6	20	0	16
NOV 24...	--	12	0	2.9	1.1	5.2	45	.7	1.5	15	0	12
DEC 13...	--	8	0	1.8	.9	4.1	47	.6	1.5	11	0	9
JAN 22...	450	8	0	1.9	.7	4.5	51	.7	1.4	12	0	10
FEB 14...	86	9	0	2.3	.9	4.1	45	.6	1.2	11	0	9
MAR 07...	70	8	2	1.6	1.0	3.6	45	.6	1.1	7	0	6
APR 13...	818	11	0	2.8	.9	4.4	43	.6	1.4	16	0	13
MAY 09...	220	8	0	1.5	1.0	4.2	49	.7	1.3	16	0	13
JUN 22...	460	9	0	2.2	.9	4.8	49	.7	1.4	16	0	13
JUL 26...	2900	9	0	2.2	.8	4.4	48	.6	1.4	13	0	11
AUG 08...	190	10	0	4.0	.0	4.4	45	.6	1.5	19	0	16
SEP 07...	380	10	0	2.5	.8	4.0	47	.6	<.1	17	0	14

07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT 28...	2.0	4.1	5.6	.1	22	57	53	.11	1.79	.03	.00
NOV 24...	7.6	2.9	5.3	.1	21	57	47	.08	3.39	.62	.01
DEC 13...	7.0	5.0	4.6	.2	16	39	40	.05	6.95	.04	.02
JAN 22...	2.4	3.0	5.3	.0	18	42	41	.06	4.42	.08	.00
FEB 14...	4.4	2.7	5.1	.0	16	48	38	.07	6.74	.03	.01
MAR 07...	8.9	3.2	3.6	.0	14	41	32	.06	12.2	.06	.03
APR 13...	2.6	1.2	5.3	.0	20	50	44	.07	4.59	.07	.02
MAY 09...	5.1	2.6	4.0	.0	19	45	41	.06	5.10	.08	.01
JUN 22...	5.1	1.8	4.5	.0	20	48	43	.07	2.33	.10	.03
JUL 26...	17	1.3	4.6	.0	20	50	41	.07	2.56	.10	.03
AUG 08...	1.9	5.0	2.4	.1	24	45	51	.06	2.07	.09	.04
SEP 07...	2.7	3.1	3.9	.1	22	46	45	.06	13.7	.07	.03

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)
JAN 22...	1	0	0	<10	2	460	1	110	.1	0
JUL 26...	0	100	0	10	6	1300	2	90	.0	0

DATE	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RALON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)	CYANIDE (CN) (MG/L)
JAN 22...	0	0	--	--	--	--	--	--	--	--	.00
JUN 22...	--	--	<.7	.5	3.6	.7	2.8	.6	.13	--	--
JUL 26...	0	30	.9	1.0	2.8	1.0	2.2	.9	.07	.13	.00

DATE	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)
JUL 26...	.0	3	.00	.0	.00	.0	.0	0	.00	.4	.00	.2

07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)
JUL 26...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
DATE	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	METHYL TRI-THION IN BOTTOM MA-TERIAL (UG/KG)
JUL 26...	.0	.00	.0	.00	.4	.00	.0	.00	.0	.00	.0
DATE	TOTAL MIREX (UG/L)	MIREX IN BOTTOM MA-TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA-THION (UG/L)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JUL 26...	.00	.0	.00	.0	0	0	.00	.0	.00	.00	.00

MISCELLANEOUS OBSERVATIONS

		AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)			AIR TEMPERATURE (DEG C)	WATER TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)		
DATE	TIME				DATE	TIME					
NOV. 2, 1976...	1110			--	JUNE 1.....	1240	26.5	23.5	6.7		
DEC. 10.....	1310			9.8	JULY 14.....	0955	31.5	23.5	--		
JAN. 28, 1977...	0945			12.0	AUG. 23.....	1000	28.5	23.5	7.5		
MAR. 4.....	1205			--	SEPT. 27.....	1505	36.0	26.5	12.8		
DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 28...	0950	16	8	.34	100	MAY 09...	2000	42	158	18	44
NOV 24...	1730	22	6	.36	100	31...	0925	19	37	1.9	84
29...	0930	65	31	5.4	77	JUN 22...	0845	18	8	.39	88
DEC 13...	1900	66	32	5.7	56	28...	1100	15	39	1.6	86
JAN 22...	1300	39	4	.42	100	JUL 26...	0820	19	34	1.7	88
31...	0900	46	20	2.5	62	27...	0930	16	32	1.4	82
FEB 28...	0945	32	20	1.7	81	AUG 08...	1615	17	24	1.1	83
MAR 07...	1400	110	42	12	71	29...	0915	45	47	5.7	85
29...	1000	54	30	4.4	88	SEP 07...	1510	22	30	1.8	67
APR 13...	1530	34	13	1.2	92	27...	1200	18	32	1.6	70
27...	0900	45	44	5.3	72						

RED RIVER BASIN

07373000 BIG CREEK AT POLLOCK, LA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1	---	24.0	11	25.0	21.5	21	24.0	19.5
2	---	24.0	12	24.0	23.0	22	24.0	19.0
3	---	24.0	13	24.5	23.0	23	23.5	20.0
4	25.0	21.5	14	25.0	21.5	24	24.5	21.5
5	25.0	23.5	15	25.5	20.5	25	26.0	24.0
6	24.5	23.0	16	27.0	21.0	26	27.0	25.0
7	25.5	23.5	17	27.0	23.0	27	26.5	25.5
8	25.5	23.0	18	26.5	24.0	28	25.5	25.5
9	26.0	22.0	19	25.0	23.0	29	25.5	24.5
10	26.5	21.0	20	25.0	20.5	30	23.5	24.0
						31	23.5	---

SPECIAL ANALYSES FOR ORGANIC COMPOUNDS

The following data are from samples collected for analysis of both volatile and semi-volatile organic compounds. Techniques and methodology are discussed in the Introduction.

<u>COMPOUND</u>		<u>CONCENTRATION (UG/L)</u>
NOVEMBER 29, 1976		
VOLATILE	NONE DETECTED	--
SEMI-VOLATILE	DIBUTYL PHTHALATE*	5.60
	DIOCTYL PHTHALATE*	0.31
JUNE 13, 1977		
VOLATILE	NONE DETECTED	--
SEMI-VOLATILE		
BASE-NEUTRAL		
EXTRACTION	DIETHYL PHTHALATE	0.61
	BIS(2-ETHYLHEXYL) PHTHALATE*	0.79
ACID EXTRACTION	BIS(2-ETHYLHEXYL) PHTHALATE*	0.18

*Possible contaminant from laboratory.

07373278 LAKE ST. JOHN NEAR WATERPROOF, LA.

LOCATION.--Lat 31°42'00", long 91°27'30", lot 47, T.8 N., R.10 E., Concordia Parish, Hydrologic Unit 08040306, at private fishing pier, 8.5 mi (13.7 km) southwest of Waterproof.

DRAINAGE AREA.--14.8 mi² (38.3 km²).

PERIOD OF RECORD.--JANUARY L(< TO CURRENT YEAR (elevations only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Louisiana Department of Transportation and Development, Office of Public Works bench mark). Prior to Oct. 1, 1976, at datum 50.00 ft (15.240 m) higher.

REMARKS.--Crest of dam is at elevation of 60.00 ft (18.029 m). Drawdown structure consists of two 4.0-ft (1.22-m) diameter pipes with stoplog arrangement that can be varied from elevations 47.90 (invert of pipe) to 53.00 ft (14.600 to 17.770 m). Capacity not determined.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 58.17 ft (17.730 m), present datum, May 13, 1973; minimum, 51.95 ft (15.834 m), present datum, Nov. 29, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 54.98 ft (16.758 m) Apr. 23; minimum, 51.98 ft (15.844 m) Nov. 9, 10, 11.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.40	52.10	52.03	52.24	52.88	52.94	54.24	54.45	53.51	52.99	52.69	52.90
2	52.38	52.08	52.02	52.22	52.88	52.93	54.28	54.49	53.49	52.98	52.87	52.88
3	52.37	52.07	52.01	52.30	52.92	52.93	54.40	54.47	53.46	52.94	52.85	52.86
4	52.35	52.06	52.01	52.30	52.93	53.85	54.59	54.42	53.43	52.93	52.83	52.84
5	52.32	52.05	52.00	52.30	52.94	54.14	54.78	54.36	53.41	52.91	52.82	52.85
6	52.42	52.02	52.03	52.30	52.92	54.27	54.80	54.32	53.42	52.90	52.83	52.85
7	52.39	52.01	52.07	52.30	52.92	54.30	54.76	54.27	53.41	52.88	52.81	52.84
8	52.36	52.00	52.06	52.30	52.90	54.31	54.72	54.23	53.35	52.85	52.79	52.82
9	52.34	51.98	52.04	52.55	52.90	54.29	54.67	54.24	53.32	52.83	52.77	52.80
10	52.32	51.98	52.03	52.66	52.90	54.27	54.60	54.19	53.30	52.82	52.75	52.84
11	52.31	51.98	52.06	52.70	52.90	54.24	54.53	54.12	53.28	52.86	52.74	52.83
12	52.29	52.05	52.12	52.73	52.93	54.30	54.46	54.08	53.25	52.85	52.72	52.81
13	52.28	52.02	52.15	52.72	52.93	54.27	54.40	54.03	53.23	52.84	52.83	52.78
14	52.27	52.04	52.14	52.88	52.92	54.24	54.35	53.99	53.22	52.83	52.92	52.79
15	52.26	52.02	52.15	52.91	52.92	54.21	54.29	53.95	53.33	52.82	52.90	52.78
16	52.24	52.02	52.14	52.94	52.90	54.20	54.24	53.91	53.35	52.81	52.88	52.77
17	52.22	52.01	52.14	52.90	52.89	54.15	54.19	53.88	53.33	52.79	52.86	52.75
18	52.17	52.00	52.13	52.91	52.88	54.12	54.14	53.84	53.31	52.79	52.84	52.74
19	52.16	51.99	52.12	52.88	52.88	54.10	54.13	53.80	53.29	52.78	52.96	52.73
20	52.14	52.02	52.15	52.87	52.86	54.09	54.09	53.77	53.27	52.78	52.95	52.74
21	52.11	52.04	52.14	52.86	52.85	54.05	54.62	53.73	53.25	52.76	52.93	52.72
22	52.10	52.03	52.12	52.86	52.86	54.03	54.94	53.70	53.22	52.75	52.96	52.70
23	52.09	52.02	52.11	52.85	52.83	53.98	54.98	53.68	53.21	52.73	52.94	52.69
24	52.08	52.00	52.10	52.90	52.91	53.95	54.96	53.65	53.18	52.73	53.01	52.66
25	52.08	51.99	52.23	52.90	52.90	53.93	54.91	53.62	53.16	52.71	52.99	52.65
26	52.07	51.99	52.29	52.90	52.88	53.91	54.82	53.65	53.12	52.73	53.01	52.64
27	52.05	52.00	52.28	52.90	52.96	53.88	54.73	53.64	53.09	52.72	53.00	52.62
28	52.02	52.01	52.28	52.90	52.95	54.04	54.65	53.61	53.07	52.69	52.98	52.61
29	51.99	52.06	52.27	52.89	---	54.03	54.58	53.59	53.04	52.69	52.96	52.60
30	52.13	52.04	52.25	52.87	---	54.02	54.51	53.56	53.02	52.72	52.95	52.58
31	52.12	---	52.26	52.90	---	54.00	---	53.54	---	52.70	52.92	---
MEAN	52.22	52.02	52.13	52.70	52.90	54.00	54.54	53.96	53.28	52.81	52.88	52.76
MAX	52.42	52.10	52.29	52.94	52.96	54.31	54.98	54.49	53.51	52.99	53.01	52.90
MIN	51.99	51.98	52.00	52.22	52.83	52.93	54.09	53.54	53.02	52.69	52.69	52.58

07373278 LAKE ST. JOHN NEAR WATERPROOF, LA--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected 1.5 mi (2.4 km) southeast of gage.

PERIOD OF RECORD.--Water years 1963, 1967, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA, MG)
DEC 15...	0900	160	7.1	9.5	40	6	9.8	3.5	64	44	--	51
FEB 15...	1200	151	7.4	9.0	5	8	11.8	6.2	8	--	6	48
MAY 10...	1130	133	7.5	25.0	10	6	9.0	3.2	<5	--	111	41
JUL 28...	0900	141	8.7	29.5	15	4	7.5	3.3	<5	--	834	44

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AU- SCPP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
DEC 15...	0	14	4.0	8.1	24	.5	4.4	67	0	55	8.5	1.4
FEB 15...	0	13	3.7	8.0	25	.5	4.3	64	0	53	4.1	2.4
MAY 10...	0	11	3.3	6.8	24	.5	4.0	57	0	47	2.9	2.2
JUL 28...	2	12	3.5	7.2	24	.5	4.2	52	0	43	.2	1.0

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
DEC 15...	13	.2	3.0	--	81	.13	.11	.89	1.0	4.4	.06
FEB 15...	13	.1	1.7	79	76	.11	.12	--	--	--	.06
MAY 10...	11	.0	1.9	59	68	.08	.00	--	--	--	.02
JUL 28...	12	.0	5.0	81	71	.11	.00	--	--	--	.09

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)
DEC 15...	2	18	0	<10	40	0	5	20	0	24000	0	20

07373278 LAKE ST. JOHN NEAR WATERPROOF, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCH IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)
DEC 15...	0	1200	.0	.0	10	80	6.8	.00	0	.0	0	.00

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
DEC 15...	.0	.00	.0	.0	77	.00	.0	.00	55	.00	37	.00

DATE	UI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
DEC 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 15...	0	.00	.0	.00	.00	.00

07373280 LAKE CONCORDIA NEAR FERRIDAY, LA

LOCATION.--Lat 31°40'25", long 91°30'05", in lot 33, T.8 N., R.9 E. Concordia Parish, Hydrologic Unit 08040306, at Louisiana Wildlife and Fisheries Commission pier, 3.5 mi (5.6 km) northeast of Ferriday.

DRAINAGE AREA.--8.91 mi² (23.08 km²).

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Louisiana Department of Transportation and Development, Office of Public Works bench mark). Prior to Oct. 1, 1976, at datum 29.00 ft (8.839) higher.

REMARKS.--Elevation of dam and capacity not determined. Drawdown structure consists of one 4.0-ft (1.22-m) diameter pipe with stoplog arrangement that can be varied from elevations 45.30 to 55.30 ft (13.807 to 16.855 m). Invert of pipe is at elevation of 46.00 ft (14.021 m). Area of lake is 865 acres (3.50 km²) at elevation 50.00 ft (15.240 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 55.33 ft (16.865 m), present datum, May 14, 1973; minimum, 48.87 ft (14.896 m), present datum, Dec. 9, 1967.

EXTREMES FOR CORRENT YEAR.--Maximum elevation, 51.24 ft (15.618 m) Apr. 23; minimum, 49.03 ft (14.944 m) Oct. 28, 29.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.27	49.15	49.16	49.35	49.72	49.70	50.32	50.84	49.92	49.49	49.45	49.74
2	49.26	49.14	49.16	49.34	49.71	49.69	50.31	50.97	49.89	49.47	49.68	49.72
3	49.24	49.14	49.15	49.44	49.75	49.69	50.36	50.96	49.86	49.45	49.66	49.70
4	49.23	49.13	49.14	49.44	49.78	50.58	50.61	50.91	49.83	49.43	49.64	49.68
5	49.22	49.12	49.14	49.43	49.76	50.70	50.72	50.87	49.81	49.42	49.64	49.68
6	49.35	49.11	49.16	49.42	49.75	50.79	50.73	50.82	49.81	49.40	49.65	49.68
7	49.33	49.10	49.20	49.45	49.72	50.80	50.71	50.78	49.76	49.38	49.64	49.67
8	49.30	49.09	49.19	49.45	49.71	50.78	50.68	50.73	49.74	49.36	49.62	49.66
9	49.28	49.09	49.18	49.68	49.70	50.75	50.64	50.76	49.72	49.37	49.60	49.65
10	49.27	49.08	49.16	49.80	49.69	50.71	50.59	50.69	49.70	49.38	49.59	49.69
11	49.27	49.08	49.18	49.80	49.70	50.69	50.55	50.64	49.69	49.40	49.56	49.68
12	49.26	49.12	49.24	49.79	49.71	50.70	50.51	50.59	49.67	49.40	49.64	49.66
13	49.25	49.10	49.26	49.78	49.71	50.67	50.46	50.55	49.66	49.39	49.63	49.65
14	49.25	49.13	49.26	49.93	49.70	50.61	50.42	50.51	49.67	49.38	49.81	49.68
15	49.23	49.12	49.27	49.93	49.67	50.57	50.38	50.47	49.77	49.36	49.80	49.66
16	49.22	49.11	49.27	49.91	49.66	50.54	50.34	50.43	49.76	49.36	49.79	49.66
17	49.19	49.11	49.26	49.88	49.65	50.49	50.31	50.39	49.76	49.35	49.78	49.65
18	49.16	49.10	49.26	49.82	49.64	50.46	50.27	50.35	49.74	49.35	49.76	49.64
19	49.15	49.11	49.26	49.83	49.64	50.41	50.26	50.31	49.72	49.34	49.79	49.63
20	49.14	49.14	49.29	49.82	49.64	50.38	50.23	50.27	49.71	49.37	49.76	49.63
21	49.12	49.15	49.27	49.81	49.62	50.35	50.85	50.23	49.69	49.36	49.75	49.61
22	49.11	49.14	49.26	49.78	49.61	50.28	51.18	50.20	49.68	49.35	49.79	49.60
23	49.10	49.13	49.26	49.77	49.61	50.27	51.23	50.17	49.66	49.34	49.77	49.58
24	49.10	49.12	49.25	49.81	49.70	50.23	51.21	50.13	49.64	49.40	49.90	49.57
25	49.11	49.12	49.29	49.81	49.68	50.21	51.17	50.10	49.62	49.39	49.88	49.56
26	49.09	49.13	49.41	49.80	49.67	50.18	51.12	50.07	49.60	49.43	49.87	49.56
27	49.06	49.12	49.41	49.79	49.73	50.17	51.06	50.05	49.58	49.41	49.85	49.54
28	49.03	49.12	49.41	49.77	49.71	50.25	51.00	50.03	49.55	49.39	49.82	49.53
29	49.03	49.18	49.40	49.72	---	50.21	50.94	50.00	49.53	49.41	49.81	49.52
30	49.18	49.18	49.40	49.71	---	50.19	50.89	49.97	49.51	49.47	49.78	49.51
31	49.16	---	49.36	49.73	---	50.14	---	49.94	---	49.47	49.76	---
MEAN	49.19	49.12	49.26	49.70	49.69	50.39	50.67	50.44	49.71	49.40	49.72	49.63
MAX	49.35	49.18	49.41	49.93	49.78	50.80	51.23	50.97	49.92	49.49	49.90	49.74
MIN	49.03	49.08	49.14	49.34	49.61	49.69	50.23	49.94	49.51	49.34	49.45	49.51

07381800 SPRING CREEK NEAR GLENMORA, LA

LOCATION.--Lat 31°00'10", long 92°34'10", in SE¼NE¼ sec.4, T.1 S., R.2 W., Rapides Parish, Louisiana meridian, Hydrologic Unit 08080102, near right bank on downstream side of bridge on U.S. Highway 165, 0.2 mi (0.3 km) upstream from Missouri Pacific Railroad Co. bridge, 2.0 mi (3.2 km) north of Glenmora, and 7.9 mi (12.7 km) upstream from mouth.

DRAINAGE AREA.--68.3 mi² (176.9 km²).

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

REVISED RECORDS.--WRD LA-1974: 1962(M), 1964(M), 1965(P), 1966(M), 1967-68(P), 1971-72(M), 1973(P).

GAGE.--Water-stage recorder. Datum of gage is 63.28 ft (19.288 m) above mean sea level (Louisiana Geodetic Survey bench mark). Oct. 23, 1953, to Mar. 6, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--21 years, 91.1 ft³/s (2.580 m³/s), 18.11 in/yr (460 mm/yr), 66,000 acre-ft/yr (81.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,150 ft³/s (174 m³/s), Nov. 12, 1966, gage height, 17.22 ft (5.249 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 20, Oct. 4, 5, 6, 1970; minimum gage height, 4.55 ft (1.387 m) Oct. 4, 5, 6, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1886, 20.50 ft (6.248 m) in May 1953; flood of June 1886 was similar, from floodmarks and information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,100 ft³/s (31 m³/s) and maximum: Mar. 4 (time unknown) 1,100 ft³/s (31.2 m³/s), gage height, 13.20 ft (4.023 m) from floodmark; minimum discharge, 38 ft³/s (1.08 m³/s) many days. Minimum gage height, 4.88 ft (1.487 m) Aug. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	40	46	48	69	48	61	129	51	44	40	60
2	41	39	47	50	72	50	57	646	51	44	40	52
3	41	38	45	60	297	58	59	836	49	44	40	49
4	40	38	45	69	350	800	62	264	50	44	40	48
5	41	38	44	69	200	700	59	109	50	43	40	47
6	41	38	51	64	100	500	57	88	49	44	42	47
7	41	38	65	59	70	270	56	78	49	43	46	45
8	40	38	50	57	60	140	55	74	48	43	39	48
9	41	38	49	221	56	110	53	70	48	43	39	60
10	40	39	47	383	54	91	53	68	48	44	38	69
11	40	43	48	191	56	86	53	66	48	44	39	75
12	40	47	105	88	60	136	52	64	50	45	42	55
13	39	45	83	92	56	187	52	63	51	44	42	51
14	39	48	73	484	54	105	52	62	58	43	42	57
15	39	45	69	357	54	82	52	61	73	43	42	51
16	39	43	59	134	52	74	52	59	61	42	39	49
17	39	42	54	89	50	69	60	59	53	41	39	48
18	39	42	50	76	50	66	64	58	49	41	43	46
19	39	48	49	69	49	65	58	59	48	44	41	48
20	39	52	55	66	49	62	145	58	48	42	40	50
21	39	47	51	63	49	61	414	57	47	42	49	46
22	39	44	49	61	48	59	511	56	47	45	213	46
23	39	43	50	62	48	58	192	56	46	41	588	45
24	39	43	48	66	49	59	101	56	45	41	397	45
25	39	43	77	62	48	64	80	58	45	45	178	44
26	39	44	148	65	48	59	71	54	46	44	99	44
27	39	45	118	63	49	58	66	54	45	43	68	43
28	38	51	67	60	48	67	63	53	45	41	144	43
29	47	55	57	57	---	66	61	53	45	42	77	42
30	61	47	52	60	---	58	60	52	45	41	65	42
31	43	---	50	75	---	57	---	51	---	40	67	---
TOTAL	1261	1301	1901	3420	2245	4365	2831	3571	1488	1330	2758	1495
MEAN	40.7	43.4	61.3	110	80.2	141	94.4	115	49.6	42.9	89.0	49.8
MAX	61	55	148	484	350	800	511	836	73	45	588	75
MIN	38	38	44	48	48	48	52	51	45	40	38	42
CFSM	.60	.64	.90	1.61	1.17	2.06	1.38	1.68	.73	.63	1.30	.73
IN.	.69	.71	1.04	1.86	1.22	2.38	1.54	1.94	.81	.72	1.50	.81
AC-FT	2500	2580	3770	6780	4450	8660	5620	7080	2950	2640	5470	2970

CAL YR 1976 TOTAL 26981 MEAN 73.7 MAX 970 MIN 38 CFSM 1.08 IN 14.70 AC-FT 53520
WTR YR 1977 TOTAL 27966 MEAN 76.6 MAX 836 MIN 38 CFSM 1.12 IN 15.23 AC-FT 55470

NOTE.--No gage-height record Feb. 3 to Mar. 9.

MISSISSIPPI RIVER DELTA

07381800 SPRING CREEK NEAR GLENMORA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.94	4.98	5.08	5.12	5.57	---	5.49	6.48	5.18	5.03	4.93	5.38
2	4.95	4.96	5.08	5.15	5.64	---	5.42	11.27	5.17	5.03	4.94	5.20
3	4.94	4.96	5.05	5.38	---	---	5.46	12.40	5.14	5.03	4.93	5.14
4	4.94	4.96	5.03	5.57	---	---	5.53	8.27	5.16	5.01	4.93	5.10
5	4.96	4.95	5.02	5.58	---	---	5.45	6.27	5.15	5.01	4.93	5.09
6	4.96	4.96	5.19	5.47	---	---	5.40	5.93	5.14	5.02	4.98	5.08
7	4.95	4.96	5.49	5.34	---	---	5.34	5.76	5.13	5.01	5.07	5.05
8	4.94	4.96	5.16	5.32	---	---	5.32	5.67	5.11	5.00	4.92	5.11
9	4.94	4.97	5.13	7.82	---	---	5.28	5.60	5.11	5.00	4.90	5.37
10	4.94	4.98	5.09	10.03	---	5.99	5.24	5.55	5.11	5.01	4.89	5.57
11	4.93	5.05	5.11	7.46	---	5.90	5.25	5.50	5.11	5.03	4.90	5.69
12	4.93	5.14	6.15	5.92	---	6.67	5.23	5.46	5.16	5.04	4.97	5.26
13	4.92	5.08	5.83	5.95	---	7.39	5.22	5.45	5.17	5.02	4.97	5.17
14	4.91	5.14	5.65	10.86	---	6.26	5.21	5.42	5.34	5.01	4.97	5.32
15	4.91	5.06	5.58	9.55	---	5.91	5.20	5.39	5.65	4.99	4.98	5.18
16	4.92	5.03	5.36	6.63	---	5.75	5.21	5.36	5.40	4.98	4.91	5.14
17	4.92	5.01	5.25	5.95	---	5.66	5.38	5.35	5.23	4.97	4.90	5.11
18	4.91	5.01	5.16	5.71	---	5.61	5.47	5.34	5.14	4.96	4.99	5.07
19	4.91	5.13	5.12	5.58	---	5.57	5.33	5.35	5.12	5.02	4.95	5.11
20	4.91	5.22	5.27	5.50	---	5.53	6.68	5.32	5.11	4.98	4.93	5.16
21	4.92	5.10	5.18	5.45	---	5.49	10.11	5.31	5.10	4.98	5.12	5.07
22	4.92	5.04	5.14	5.40	---	5.46	10.91	5.30	5.08	5.04	7.70	5.06
23	4.92	5.03	5.15	5.42	---	5.43	7.46	5.28	5.07	4.97	11.41	5.05
24	4.93	5.02	5.10	5.51	---	5.45	6.15	5.28	5.05	4.97	9.63	5.03
25	4.94	5.02	5.70	5.43	---	5.56	5.80	5.34	5.04	5.04	7.27	5.02
26	4.93	5.05	6.84	5.49	---	5.46	5.62	5.24	5.05	5.03	6.11	5.02
27	4.93	5.07	6.39	5.44	---	5.43	5.51	5.25	5.05	5.01	5.55	5.01
28	4.93	5.18	5.53	5.38	---	5.63	5.44	5.23	5.05	4.98	6.78	5.00
29	5.12	5.26	5.30	5.31	---	5.50	5.41	5.22	5.04	4.99	5.72	4.99
30	5.44	5.09	5.21	5.37	---	5.44	5.37	5.20	5.03	4.96	5.49	4.98
31	5.04	---	5.16	5.69	---	5.42	---	5.19	---	4.94	5.53	---
MEAN	4.96	5.05	5.37	6.12	---	---	5.86	5.97	5.15	5.00	5.65	5.15
MAX	5.44	5.26	6.84	10.86	---	---	10.91	12.40	5.65	5.04	11.41	5.69
MIN	4.91	4.95	5.02	5.12	---	---	5.20	5.19	5.03	4.94	4.89	4.98

07381950 COCODRIE LAKE NEAR CLEARWATER, LA

LOCATION.--Lat 31°00'00", long 92°22'57", in SE¼NE¼ sec.5, T.1 S., R.1 E., Louisiana meridian, Rapides Parish, Hydrologic Unit 08080102, 50 ft (15 m) north of concrete spillway in center of drainage canal, 1,000 ft (305 m) upstream from U.S. Highway 167, 0.9 mi (1.4 km) downstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 1.5 mi (2.4 km) east of Clearwater, and 4.0 mi (6.4 km) downstream from Hurricane Creek.

DRAINAGE AREA.--240 mi² (622 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft (12.192 m) above mean Gulf level (levels by Corps of Engineers), and 39.56 ft (12.061 m) above mean sea level (levels by Louisiana Department of Transportation and Development, Office of Public Works).

REMARKS.--Reservoir is formed on Bayou Cocodrie by earthfill dam, completed in 1959. Storage began Jan. 23, 1959. The dam contains a 100-ft (30.5 m) concrete spillway. The crest of the dam is 51.44 ft (15.679 m) above mean Gulf level (levels by Corps of Engineers) and 51.00 ft (15.545 m) above mean sea level (levels by Louisiana Department of Transportation and Development, Office of Public Works). Drawdown structure consists of one 4.0-ft (1.2 m) pipe with a metal gate that can be varied from 41.44 ft (12.631 m) to 45.44 ft (13.850 m) above mean Gulf level and from 41.00 ft (12.497 m) to 45.00 ft (13.716 m) above mean sea level. Invert of pipe is 41.44 ft (12.631 m) above mean Gulf level and 41.00 ft (12.497 m) above mean sea level. Usable capacity, 11,000 acre-ft (13.6 hm³). Reservoir is used for recreation. Flow for Bayou Cocodrie (sta 07382000) is outflow of reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.64 ft (6.291 m) Mar. 26, 1973; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 16.24 ft (4.950 m) Apr. 23, 24; minimum not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.08	8.53	10.48	12.32	12.73	12.20	12.66	14.60	11.98	11.03	---	12.70
2	9.05	8.75	10.51	12.28	12.76	12.18	12.70	14.96	11.96	10.96	---	12.64
3	9.00	8.89	10.51	12.30	12.84	12.24	12.72	15.23	11.94	10.90	---	12.55
4	8.93	8.97	10.50	12.29	13.47	13.10	12.73	15.34	11.92	10.84	---	12.47
5	8.86	8.99	10.49	12.28	14.08	14.60	12.72	15.24	11.90	10.77	---	12.41
6	8.80	8.99	10.50	12.28	14.19	15.19	12.73	15.03	11.89	10.72	---	12.36
7	8.72	8.97	10.76	12.27	14.06	15.34	12.70	14.80	11.88	10.64	---	12.30
8	8.64	8.92	10.90	12.25	13.88	15.26	12.63	14.56	11.86	10.57	---	12.24
9	8.56	8.86	11.04	12.31	13.69	15.08	12.57	14.32	11.85	10.49	---	12.20
10	8.48	8.81	11.09	12.63	13.49	14.88	12.49	14.07	11.68	10.45	---	12.34
11	8.39	8.74	11.13	12.91	13.29	14.68	12.43	13.84	11.63	10.43	---	12.33
12	8.31	9.06	11.23	12.98	13.14	14.49	12.37	13.59	11.58	10.47	---	12.31
13	8.22	9.20	11.48	12.91	12.99	14.29	12.32	13.36	11.63	10.42	---	12.27
14	8.14	9.42	11.81	13.46	12.87	14.10	12.28	13.14	11.68	10.36	---	12.30
15	8.06	9.56	12.01	14.40	12.76	13.91	12.24	12.97	11.72	10.29	---	12.28
16	7.99	9.65	12.11	14.79	12.67	13.69	12.21	12.84	11.71	10.20	---	12.25
17	---	9.71	12.15	14.75	12.60	13.48	12.23	12.73	11.72	10.11	---	12.22
18	---	9.74	12.15	14.56	12.54	13.27	12.39	12.63	11.68	10.05	---	12.18
19	---	9.77	12.14	14.35	12.47	13.07	12.38	12.55	11.64	9.95	---	12.15
20	---	9.96	12.16	14.15	12.41	12.94	12.45	12.47	11.60	---	---	12.13
21	---	10.07	12.16	13.94	12.35	12.82	13.30	12.40	11.58	---	---	12.11
22	---	10.13	12.15	13.72	12.31	12.72	15.27	12.35	11.54	---	---	12.08
23	---	10.15	12.15	13.52	12.28	12.62	16.16	12.30	11.48	---	---	12.06
24	---	10.15	12.14	13.39	12.24	12.54	16.21	12.25	11.43	---	---	12.04
25	---	10.15	12.21	13.22	12.21	12.55	16.03	12.20	11.38	---	13.23	12.02
26	---	10.14	12.32	13.06	12.18	12.53	15.81	12.17	11.33	---	13.24	12.01
27	---	10.15	12.46	12.94	12.22	12.50	15.58	12.13	11.26	---	13.08	11.99
28	---	10.15	12.49	12.83	12.21	12.58	15.32	12.09	11.21	---	12.93	11.98
29	---	10.34	12.47	12.73	---	12.63	15.07	12.06	11.15	---	12.84	11.97
30	---	10.42	12.42	12.64	---	12.68	14.82	12.03	11.09	---	12.86	11.95
31	8.26	---	12.37	12.67	---	12.64	---	12.00	---	---	12.79	---
MEAN	---	9.51	11.63	13.13	12.89	13.45	13.45	13.30	11.63	---	---	12.23
MAX	9.08	10.42	12.49	14.79	14.19	15.34	16.21	15.34	11.98	11.03	13.24	12.70
MIN	---	8.53	10.48	12.25	12.18	12.18	12.21	12.00	11.09	---	---	11.95

NOTE.--Gage height was below 7.97 ft (lowest recordable stage) Oct. 17-30.
No gage-height record July 20 to Aug. 24.

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA

LOCATION.--Lat 31°00'00", long 92°22'46", in NW¼SW¼ sec.4, T.1 S., R.1 E., Louisiana meridian, Evangeline Parish, Hydrologic Unit 08080102, near right bank on downstream side of bridge on U.S. Highway 167, 1,000 ft (305 m) downstream from Cocodrie Lake dam, 1.0 mi (1.6 km) downstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 1.5 mi (2.4 km) east of Clearwater, 4.0 mi (6.4 km) south of Meeker, and 5.0 mi (8.0 km) downstream from Hurricane Creek.

DRAINAGE AREA.--240 mi² (622 km²).

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 75-1: 1974

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft (12.192 m) above mean Gulf level (levels by Corps of Engineers), and 39.57 ft (12.061 m) above mean sea level (levels by Louisiana Department of Transportation and Development, Office of Public Works). See WSP 1731 for history of changes prior to Mar. 28, 1940. Since Jan. 23, 1945, auxiliary nonrecording gage 6.6 mi (10.6 km) downstream from base gage at datum 35.10 ft (10.698 m) above mean sea level (Louisiana Geodetic Survey bench mark).

REMARKS.--Records good. Slight regulation at low flow by Cocodrie Lake (sta 07381950). Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--42 years (1922-24, 1937-77), 415 ft³/s (11.75 m³/s), 23.48 in/yr (596 mm/yr), 300,700 acre-ft/yr (371 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,200 ft³/s (799 m³/s) May 18, 1953, gage height, 26.72 ft (8.144 m); reverse flow Nov. 13-15, 1922, probably caused by heavy rains in basin below station; minimum discharge, 49 ft³/s (1.39 m³/s) Nov. 20, 1974, regulated.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft³/s (30.9 m³/s) Apr. 23, gage height, 16.10 ft (4.907 m) from flood mark; minimum discharge, 68 ft³/s (1.93 m³/s) June 9, gage height, 5.13 ft (1.565 m) regulated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	94	122	241	484	192	453	899	115	135	115	516
2	99	97	121	230	497	184	462	940	106	134	115	453
3	98	98	121	234	608	254	465	973	98	133	113	403
4	98	100	121	229	769	735	492	983	91	132	112	360
5	97	100	121	224	832	907	515	968	84	131	111	327
6	96	100	127	220	840	970	493	941	80	131	109	300
7	95	100	137	216	823	981	461	912	77	130	108	272
8	94	100	129	208	800	969	416	883	72	129	106	248
9	93	100	128	296	776	947	370	853	89	128	104	277
10	92	99	128	434	751	922	331	823	159	128	103	321
11	90	101	129	587	723	896	295	793	158	128	101	302
12	89	105	147	636	695	873	264	763	152	128	100	283
13	88	105	134	633	642	849	238	732	157	127	99	267
14	87	107	91	788	575	827	217	691	179	126	99	269
15	86	108	145	883	507	802	200	625	183	125	99	260
16	85	109	179	917	450	775	189	545	178	124	98	240
17	84	110	195	908	402	748	308	470	177	123	97	219
18	83	110	196	883	361	717	587	409	169	122	95	199
19	82	113	193	857	323	671	460	359	162	121	94	185
20	81	116	202	832	292	604	430	317	155	120	92	171
21	80	115	198	806	266	545	800	282	152	119	105	159
22	78	115	193	779	244	478	1000	254	147	118	169	148
23	78	116	180	757	229	419	1070	229	142	117	259	138
24	77	116	170	739	214	378	1060	209	140	116	547	129
25	77	116	191	712	200	375	1050	194	140	115	716	118
26	76	117	226	675	197	359	1020	180	139	116	716	109
27	75	119	283	616	202	343	1000	167	139	115	687	102
28	75	124	321	548	198	393	975	159	138	117	640	95
29	78	125	314	484	---	426	944	148	137	118	600	90
30	86	122	292	443	---	441	913	136	136	117	607	85
31	89	---	265	466	---	429	---	125	---	116	566	---
TOTAL	2685	3257	5499	17481	13900	19409	17478	16962	4051	3839	7682	7045
MEAN	86.6	109	177	564	496	626	583	547	135	124	248	235
MAX	99	125	321	917	840	981	1070	983	183	135	716	516
MIN	75	94	91	208	197	184	189	125	72	115	92	85
CFSM	.36	.45	.74	2.35	2.07	2.61	2.43	2.28	.56	.52	1.03	.98
IN.	.42	.50	.85	2.71	2.15	3.01	2.71	2.63	.63	.60	1.19	1.09
AC-FT	5330	6460	10910	34670	27570	38500	34670	33640	8040	7610	15240	13970

CAL YR 1976	TOTAL	106961	MEAN	292	MAX	1050	MIN	75	CFSM	1.22	IN	16.58	AC-FT	212200
WTR YR 1977	TOTAL	119288	MEAN	327	MAX	1070	MIN	72	CFSM	1.36	IN	18.49	AC-FT	236600

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.72	5.63	6.10	8.01	10.74	7.26	10.43	14.57	5.98	6.33	5.99	10.92
2	5.72	5.68	6.09	7.85	10.87	7.13	10.52	14.91	5.84	6.31	5.98	10.25
3	5.70	5.71	6.09	7.91	11.95	8.06	10.56	15.19	5.70	6.28	5.96	9.69
4	5.69	5.73	6.08	7.84	13.45	13.13	10.82	15.26	5.57	6.27	5.94	9.20
5	5.68	5.74	6.08	7.77	14.01	14.64	11.05	15.14	5.45	6.26	5.92	8.80
6	5.66	5.74	6.19	7.71	14.07	15.16	10.83	14.92	5.38	6.25	5.90	8.47
7	5.65	5.74	6.35	7.65	13.93	15.24	10.51	14.68	5.32	6.23	5.87	8.09
8	5.63	5.74	6.23	7.53	13.73	15.15	10.05	14.44	5.23	6.22	5.84	7.77
9	5.61	5.73	6.21	8.67	13.52	14.97	9.56	14.19	5.51	6.20	5.81	8.15
10	5.59	5.72	6.20	10.23	13.28	14.76	9.14	13.93	6.73	6.20	5.78	8.74
11	5.57	5.76	6.22	11.76	13.04	14.55	8.70	13.67	6.70	6.21	5.75	8.49
12	5.56	5.82	6.51	12.23	12.77	14.35	8.31	13.40	6.61	6.19	5.74	8.24
13	5.54	5.82	6.29	12.21	12.29	14.15	7.96	13.12	6.69	6.18	5.71	8.03
14	5.52	5.86	5.58	13.62	11.65	13.96	7.66	12.74	7.05	6.17	5.72	8.05
15	5.50	5.88	6.49	14.43	10.97	13.75	7.39	12.13	7.12	6.15	5.72	7.93
16	5.48	5.89	7.05	14.72	10.40	13.50	7.21	11.36	7.04	6.13	5.70	7.74
17	5.46	5.90	7.30	14.64	9.91	13.26	8.57	10.61	7.01	6.12	5.68	7.49
18	5.44	5.91	7.33	14.44	9.46	12.98	11.76	9.98	6.89	6.11	5.66	7.25
19	5.42	5.96	7.28	14.22	9.04	12.56	10.50	9.45	6.77	6.09	5.63	7.07
20	5.40	6.00	7.42	14.01	8.67	11.93	---	8.97	6.65	6.08	5.60	6.92
21	5.38	5.99	7.35	13.78	8.34	11.35	---	8.55	6.60	6.06	5.81	6.72
22	5.35	5.99	7.28	13.54	8.05	10.68	---	8.19	6.51	6.04	6.86	6.54
23	5.33	6.00	7.07	13.34	7.84	10.08	---	7.84	6.44	6.02	8.15	6.37
24	5.33	6.00	6.91	13.17	7.62	9.65	---	7.54	6.41	6.00	11.36	6.22
25	5.32	6.00	7.24	12.94	7.39	9.61	---	7.29	6.40	5.98	12.97	6.04
26	5.30	6.02	7.80	12.59	7.33	9.45	---	7.06	6.39	6.00	12.97	5.89
27	5.29	6.06	8.56	12.05	7.43	9.26	---	6.86	6.38	6.00	12.69	5.77
28	5.27	6.14	9.02	11.38	7.36	9.80	15.20	6.72	6.37	6.01	12.22	5.65
29	5.33	6.16	8.94	10.74	---	10.15	14.95	6.53	6.35	6.03	11.81	5.56
30	5.49	6.10	8.67	10.33	---	10.31	14.69	6.33	6.34	6.02	11.89	5.47
31	5.55	---	8.33	10.57	---	10.19	---	6.16	---	6.01	11.46	---
MEAN	5.50	5.88	6.98	11.35	10.68	11.97	---	11.02	6.31	6.13	7.55	7.58
MAX	5.72	6.16	9.02	14.72	14.07	15.24	---	15.26	7.12	6.33	12.97	10.92
MIN	5.27	5.63	5.58	7.53	7.33	7.13	7.21	6.16	5.23	5.98	5.60	5.47

MISSISSIPPI RIVER DELTA

07382495 BAYOU COURTABLEAU NEAR WASHINGTON, LA

LOCATION, Lat 30°38'53", long 92°03'40", in NW¼ lot 7, T.5 S., R.4 E., Louisiana meridian, St. Landry Parish, Hydrologic Unit 08080102, on left bank, 0.3 mi (0.5 km) downstream from confluence of Bayou Cocodrie and Bayou Boeuf, 2.0 mi (3.2 km) northwest of Washington and 3.4 mi (5.5 km) upstream from gaging station Bayou Courtableau at Washington (sta 07382500).

DRAINAGE AREA.--701 mi² (1,816 km²). See REMARKS.

PERIOD OF RECORD.--October 1975 to current year (gage heights only). Unpublished records, July 1946 to September 1975, available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is at mean low Gulf level (Corps of Engineers bench mark).

REMARKS.--Some flow diverted from Bayou Boeuf into Chatlin Lake Canal through Bayou Lamourie. Since April 1952, floodflow is diverted from 76.1 mi² (197.1 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 31.50 ft (9.601 m) Apr. 26, 1977, minimum, 12.12 ft (3.694 m) June 10, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 38.65 ft (11.781 m) May 19, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 31.50 ft (9.60 m) Apr. 26; minimum, 12.12 ft (3.694 m) June 10.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.92	14.38	15.83	16.44	19.85	17.35	18.59	29.67	13.84	12.61	13.74	19.48
2	14.02	14.47	15.78	16.07	19.43	17.08	18.81	29.46	13.58	12.66	13.84	18.48
3	13.91	14.41	15.70	16.91	21.23	17.15	18.86	29.30	13.35	12.78	14.18	17.58
4	13.72	14.27	15.48	18.27	25.43	22.33	19.57	29.05	13.13	12.72	14.27	16.83
5	13.55	14.08	15.22	18.12	25.77	25.31	22.60	28.69	12.94	12.61	14.12	16.74
6	13.42	13.89	15.43	18.10	25.20	25.69	21.84	28.19	12.78	12.63	13.87	16.70
7	13.28	13.72	20.27	17.63	23.76	25.75	20.37	27.54	12.65	12.87	13.64	16.99
8	13.20	13.57	19.96	17.04	21.69	25.51	19.11	26.60	12.44	12.94	13.41	16.18
9	13.15	13.44	18.21	17.02	19.90	25.09	18.99	25.23	12.29	12.89	13.31	16.63
10	13.09	12.88	16.92	20.48	19.20	24.56	18.83	23.32	12.17	12.89	13.19	21.19
11	13.06	13.17	16.31	21.95	18.80	23.87	18.47	21.29	12.17	12.88	13.16	23.15
12	13.03	13.27	16.71	21.62	18.79	23.04	17.97	19.74	12.26	13.04	13.73	21.14
13	13.03	13.41	18.98	20.84	18.82	22.16	17.86	19.14	12.45	13.11	14.62	19.48
14	12.98	13.85	19.00	25.48	18.66	21.40	17.77	18.91	13.11	13.18	15.06	20.01
15	12.94	14.55	19.60	26.99	18.25	20.95	17.50	18.64	16.05	13.24	15.02	19.30
16	12.93	14.79	19.00	27.32	17.75	20.28	17.25	18.34	17.35	13.17	14.83	18.72
17	12.91	14.79	18.04	27.19	17.69	19.63	17.02	18.27	17.77	13.01	14.57	18.56
18	12.87	14.59	17.18	26.61	17.64	19.15	17.77	18.14	17.59	12.88	14.35	18.23
19	12.83	14.50	16.56	25.52	17.52	18.96	18.93	17.97	17.29	12.77	14.23	17.51
20	12.78	15.04	16.37	23.85	17.36	18.85	20.10	17.66	16.92	12.67	14.36	17.46
21	12.76	15.48	16.90	21.92	17.14	18.46	28.46	17.30	16.48	12.60	15.32	17.37
22	12.74	15.62	16.68	20.16	16.86	18.27	30.00	16.94	16.01	12.57	20.74	17.18
23	12.69	15.53	16.33	19.09	16.62	18.11	30.74	16.59	15.50	12.57	25.51	16.93
24	12.66	15.31	16.43	18.71	16.57	17.90	31.14	16.18	14.97	12.54	26.43	16.64
25	12.61	15.07	17.39	19.05	16.38	17.84	31.40	15.71	14.47	12.49	26.70	16.33
26	12.58	14.83	21.44	18.85	16.44	17.87	31.48	15.29	14.03	12.59	26.46	16.00
27	12.67	14.63	21.88	18.51	18.39	17.80	31.38	15.04	13.66	13.11	25.61	15.66
28	12.67	14.84	20.86	18.15	18.52	18.42	31.07	14.82	13.50	13.41	23.92	15.35
29	12.77	16.55	19.46	18.00	---	19.61	30.61	14.63	13.32	13.62	21.99	15.19
30	13.62	16.88	18.05	17.79	---	19.26	30.09	14.41	12.96	13.77	21.07	14.99
31	14.07	---	17.07	19.30	---	18.94	---	14.09	---	13.78	20.59	---
MEAN	13.11	14.53	17.71	20.42	19.27	20.54	22.82	20.52	14.23	12.92	17.29	17.73
MAX	14.07	16.88	21.88	27.32	25.77	25.75	31.48	29.67	17.77	13.78	26.70	23.15
MIN	12.58	12.88	15.22	16.07	16.38	17.08	17.02	14.09	12.17	12.49	13.16	14.99

LOCATION.--Lat 30°37'05", long 92°05'20", in lot 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 (0.3 km) upstream from Texas and New Orleans Railroad Co. bridge, 1.2 mi (1.9 km) upstream from Bayou Carron, 3.5 mi (5.6 km) downstream from confluence of Bayou Cocodrie and Bayou Boeuf, and 6.0 mi (9.7 km) north of Opelousas.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Louisiana Geodetic Survey bench mark). Prior to Aug. 23, 1948, non-recording gage at same site and datum. Auxiliary water-stage recorder 3.4 mi (5.5 km) upstream from base gage. Datum of auxiliary gage is at mean low Gulf level (Corps of Engineers bench mark). Prior to Feb. 28, 1949, auxiliary nonrecording gage at site 3.5 mi (5.6 km) upstream from base gage at same datum.

REMARKS.--Records good. Some flow diverted from Bayou Boeuf into Chatlin Lake Canal through Bayou Lamourie. Since April 1952, floodflow is diverted from 76.1 mi² (197.1 km²) 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. Records of water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--31 years, 1,058 ft³/s (29.96 m³/s), 766,500 acre-ft/yr (945 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft³/s (269 m³/s) May 21, 1953; maximum elevation, 35.29 ft (10.756 m) May 22, 1953; minimum discharge, 70 ft³/s (1.98 m³/s) Oct. 19, 1973; minimum elevation, 10.72 ft (3.267 m) Oct. 18, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,230 ft³/s (148 m³/s) Apr. 27, maximum elevation, 29.73 ft (9.062 m) Apr. 23; minimum daily discharge, 132 ft³/s (3.74 m³/s) July 6, minimum elevation, 12.52 ft (3.816 m) June 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217	326	380	717	900	570	784	4610	165	145	198	1230
2	229	287	324	624	860	392	797	4450	155	140	203	976
3	222	260	309	716	1000	394	818	4390	150	156	185	816
4	214	242	285	831	2900	1950	1090	4340	145	149	206	650
5	214	224	263	877	3300	3150	2240	4270	140	140	212	608
6	217	215	462	771	3300	3300	2020	4150	138	132	201	459
7	212	207	1610	710	3200	3420	1510	3950	138	146	196	470
8	224	205	1290	643	2900	3430	1080	3590	136	166	187	449
9	224	203	788	793	2400	3310	870	3090	136	160	202	458
10	216	205	593	1790	2000	3140	784	2380	138	149	192	1590
11	216	203	484	2080	1600	2880	648	1740	145	155	188	2180
12	213	240	470	2090	1400	2500	569	1250	167	169	312	1510
13	211	257	1080	1900	1150	2220	490	1060	191	165	370	996
14	202	283	1210	3220	1000	1990	473	947	245	168	300	1140
15	200	296	1360	3470	920	1690	402	875	529	174	241	1010
16	206	260	1160	3510	808	1470	385	783	396	165	217	806
17	203	248	948	3610	682	1260	393	661	416	160	202	734
18	202	229	776	3550	620	1100	730	576	329	157	195	699
19	200	228	648	3280	564	996	1150	524	316	158	180	573
20	193	323	573	2750	526	965	1700	452	313	153	170	498
21	194	329	596	2140	490	872	2810	386	307	149	300	477
22	190	307	592	1670	456	729	3180	363	304	148	950	450
23	183	280	514	1410	424	635	3860	365	275	154	2350	428
24	180	260	430	1220	405	549	4410	329	234	152	2750	412
25	172	252	488	1150	399	571	4880	281	213	149	2960	389
26	175	238	1650	1130	442	600	5120	255	190	166	3120	366
27	197	245	1990	1070	716	587	5210	244	185	258	3000	341
28	189	329	1760	970	696	761	5150	232	210	226	2530	301
29	210	568	1410	840	---	1150	4980	209	194	209	1910	282
30	347	416	1070	776	---	1030	4780	185	155	223	1630	263
31	345	---	851	850	---	854	---	175	---	214	1540	---
TOTAL	6617	8165	26364	51158	36058	48465	63313	51112	6755	5155	27397	21561
MEAN	213	272	850	1650	1288	1563	2110	1649	225	166	884	719
MAX	347	568	1990	3610	3300	3430	5210	4610	529	258	3120	2180
MIN	172	203	263	624	399	392	385	175	136	132	170	263
AC-FT	13120	16200	52290	101500	71520	96130	125600	101400	13400	10220	54340	42770
CAL YR 1976	TOTAL	296200		MEAN 815	MAX 3690	MIN 157	AC-FT 591500					
WTR YR 1977	TOTAL	352120		MEAN 965	MAX 5210	MIN 132	AC-FT 698400					

MISSISSIPPI RIVER DELTA

07382500 BAYOU COURTABLEAU AT WASHINGTON, LA--Continued

ELEVATION, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.26	14.55	16.09	16.26	---	17.51	18.61	27.54	14.29	13.05	14.10	18.99
2	14.34	14.73	16.13	16.00	---	17.42	18.85	27.47	14.03	13.10	14.19	18.18
3	14.24	14.71	16.05	16.80	---	17.48	18.88	27.35	13.79	13.14	14.58	17.38
4	14.05	14.59	15.85	18.17	---	21.51	19.32	27.06	13.57	13.10	14.65	16.80
5	13.85	14.42	15.58	17.93	---	23.61	21.32	26.65	13.37	12.99	14.48	16.76
6	13.71	14.23	15.64	18.08	---	23.91	20.68	26.12	13.20	13.03	14.24	16.91
7	13.56	14.06	19.48	17.62	---	23.80	19.66	25.50	13.07	13.27	13.99	17.22
8	13.46	13.90	19.41	17.04	---	23.43	18.79	24.71	12.88	13.30	13.76	16.39
9	13.40	13.76	18.08	16.78	---	23.02	18.97	23.61	12.72	13.26	13.63	16.87
10	13.34	13.62	16.98	19.26	---	22.54	18.90	22.10	12.58	13.28	13.51	20.62
11	13.31	13.46	16.49	20.71	---	21.99	18.63	20.45	12.52	13.25	13.49	22.20
12	13.29	13.49	16.94	20.27	---	21.46	18.18	19.30	12.56	13.40	13.83	20.64
13	13.29	13.61	18.63	19.57	---	20.75	18.14	18.86	12.70	13.49	14.73	19.36
14	13.26	14.09	18.41	23.73	---	20.16	18.07	18.76	13.30	13.55	15.36	19.79
15	13.21	14.82	18.94	25.46	---	20.08	17.85	18.54	16.11	13.61	15.40	19.13
16	13.19	15.13	18.50	25.86	17.60	19.61	17.60	18.32	17.69	13.54	15.24	18.73
17	13.18	15.14	17.71	25.53	17.73	19.14	17.35	18.40	18.12	13.39	14.98	18.64
18	13.14	14.95	16.99	24.79	17.76	18.80	17.73	18.35	18.01	13.25	14.75	18.31
19	13.10	14.87	16.52	23.70	17.70	18.74	18.65	18.22	17.71	13.14	14.65	17.68
20	13.06	15.34	16.42	22.19	17.57	18.65	20.27	17.97	17.33	13.03	14.80	17.71
21	13.03	15.81	16.97	20.58	17.38	18.33	27.88	17.65	16.87	12.97	15.84	17.64
22	13.02	15.98	16.73	19.09	17.11	18.31	29.35	17.29	16.38	12.93	20.86	17.46
23	12.98	15.90	16.46	18.13	16.89	18.25	29.70	16.93	15.89	12.92	24.92	17.22
24	12.95	15.69	16.68	18.02	16.87	18.12	29.68	16.53	15.36	12.89	25.60	16.94
25	12.92	15.43	17.65	18.58	16.67	18.05	29.54	16.10	14.86	12.85	25.71	16.63
26	12.89	15.20	20.77	18.35	16.68	18.04	29.36	15.68	14.42	12.91	25.24	16.31
27	12.91	14.97	20.77	18.06	18.47	17.98	29.11	15.43	14.04	13.26	24.27	15.98
28	12.93	15.13	19.84	17.81	18.64	18.45	28.75	15.21	13.80	13.68	22.68	15.68
29	13.00	16.68	18.64	17.84	---	19.29	28.34	15.04	13.65	13.94	21.08	15.54
30	13.61	17.14	17.51	17.73	---	19.07	27.88	14.85	13.35	14.08	20.35	15.34
31	14.15	---	16.74	---	---	18.93	---	14.54	---	14.11	19.88	---
MEAN	13.38	14.85	17.54	---	---	19.88	22.20	20.02	14.61	13.28	17.25	17.77
MAX	14.34	17.14	20.77	25.86	---	23.91	29.70	27.54	18.12	14.11	25.71	22.20
MIN	12.89	13.46	15.58	16.00	---	17.42	17.35	14.54	12.52	12.85	13.49	15.34

07382500 BAYOU COURTABLEAU AT WASHINGTON, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960, 1966-68, 1976 to July 1977 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
NOV 15...	1130	1450	110	7.4	10.0	50	30	9.2	2.8	290	480	--
JAN 11...	0805	2200	120	7.2	7.5	120	65	10.4	4.1	1700	83400	--
APR 22...	1200	3000	69	6.3	19.5	320	70	--	--	3500	--	812000
JUL 21...	0930	1260	138	7.5	29.5	90	55	5.6	--	880	--	620
DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
NOV 15...	34	0	8.5	3.0	7.5	31	.6	2.4	48	0	39	3.1
JAN 11...	41	5	10	4.0	6.5	24	.4	2.5	44	0	36	4.4
APR 22...	23	0	5.8	2.1	3.3	22	.3	1.9	28	0	23	22
JUL 21...	32	0	7.7	3.0	14	47	1.1	1.7	40	0	33	2.0
DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIS- SOLVED FLUOR- IDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV 15...	5.6	9.0	.1	15	69	75	.09	.13	.43	.56	2.5	.13
JAN 11...	8.6	8.7	.1	8.6	--	71	.10	.17	--	--	--	.21
APR 22...	3.7	4.5	.1	4.0	52	39	.07	.38	--	--	--	.37
JUL 21...	3.1	18	.1	15	95	82	.13	.16	--	--	--	.17
DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	HEXA- VALENT CHRO- MIUM (CPb) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)
NOV 15...	2	8	0	<10	<10	0	9	<10	60	6000	2	<10
DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)
NOV 15...	20	500	.0	.0	20	30	6.2	.00	3	.0	0	.00

MISSISSIPPI RIVER DELTA

07382500 BAYOU COURTABLEAU AT WASHINGTON, LA--Continued

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDU (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
NOV 15...	.0	.00	.0	.0	0	.00	36	.00	49	.00	9.0	.01

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
NOV 15...	.0	.00	1.4	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
NOV 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 15...	0	.00	.0	.00	.10	.00

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)
NOV. 10, 1976...	0910	21.5	14.0	JUNE 15.....	0810	27.5	26.0
DEC. 10.....	1010	17.5	10.0	JULY 21.....	0940	33.0	28.5
JAN. 24, 1977...	0920	9.5	6.5	AUG. 26.....	1220	32.0	28.0
FEB. 15.....	1140	13.5	13.0	SEPT. 26.....	1200	32.0	29.5
APR. 27.....	0925	26.5	20.5				

07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE, LA

LOCATION.--Lat 31°01'59", long 91°58'57", in NE¼ sec.29, T.1 N., R.5 E., Avoyelles Parish, Hydrologic Unit 08080102, near left bank on downstream side of bridge on State Highway 114 at Moreauville, and 150 ft (46 m) downstream from point of diversion from Bayou des Glaisses.

DRAINAGE AREA.--270 mi² (383 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 23.46 ft (7.151 m) above mean sea level, (levels by Louisiana Department of Transportation and Development, Office of Public Works). Prior to Oct. 31, 1950, nonrecording gage at same site. Prior to Sept. 30, 1961, at datum 4.84 ft (1.475 m) higher. Auxiliary water-stage recorder 2.5 mi (4.0 km) downstream (see station 07383510) from base gage. Datum of auxiliary gage is 21.18 ft (6.456 m) above mean sea level (Louisiana Geodetic Survey bench mark).

REMARKS.--Records good. Diversion channel carries natural flow of Bayou des Glaisses except when operation of floodgates, 12 mi (19 km) 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 (9.6 km) downstream. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--34 years, 430 ft³/s (12.18 m³/s) 311,500 acre-ft/yr (384 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,340 ft³/s (180 m³/s) May 18, 1953, gage height, 22.68 ft (6.913 m), present datum; minimum, 2.7 ft³/s (0.075 m³/s) Oct. 13, 14, 15, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,890 ft³/s (81.8 m³/s) Apr. 22, gage height, 22.44 ft (6.840 m); minimum, 19 ft³/s (0.54 m³/s) Nov. 10, 11, June 12, 13; minimum gage height, 2.56 ft (0.780 m) Nov. 11.

REVISION.--Figures of maximum discharge for some water years have been revised, as shown in the following table. They supersede figures published in WRD Louisiana and WDR Louisiana for the water years indicated.

Report	Water Year	Date	Discharge (ft ³ /s (m ³ /s))		Gage height (ft) (m)	
WRD LA	1973	Apr. 18, 1973	2,220	62.9	a19.03	5.800
WRD LA	1974	Jan. 28, 1974	2,210	62.6	18.28	5.572
WDR LA-75-1	1975	Jan. 11, 1975	1,840	52.1	b16.75	5.105
WDR LA 76-1	1976	Mar. 31, 1976	1,990	56.4	15.79	4.813

a Occurred Mar. 25, 1973

b Occurred Jan. 10, 1975

REVISIONS (WATER YEARS).--Revised figures of discharge, in cubic feet per second, for the water years 1973-76, superseding those published in WRD LA 1973-74, WDR LA 75-1 and WDR LA 76-1 are given herewith:

Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)
1973					
Feb. 1	850	1973-Con.		1973-Con.	
2	922	Mar. 26	1,730	Apr. 21	1,860
8	880	27	1,710	22	1,880
9	1,150	28	1,740	23	1,890
13	1,010	29	1,770	24	1,860
14	1,420	Apr. 7	1,780	25	1,830
15	1,290	8	1,760	26	1,890
Mar. 6	709	9	1,700	27	1,870
7	918	16	1,600	May 2	1,660
16	842	17	1,790	3	2,030
24	1,480	18	2,190	4	1,900
25	1,910	19	2,050	5	1,830
		20	1,910	7	1,970
				8	2,020
				9	1,930
1974					
Jan. 5	1,340	1974-Con.		1974-Con.	
11	1,450	Jan. 23	1,520	Jan. 30	2,030
12	1,480	24	1,640	31	2,000
13	1,390	25	1,640	Feb. 1	2,010
19	1,270	26	1,790	2	2,030
20	1,620	27	1,850	3	2,000
21	1,500	28	2,040	4	1,950
		29	2,130	7	1,890
1975					
Jan. 7	1,130	1975-Con.		1975-Con.	
8	1,620	Jan. 12	1,630	May 2	1,200
9	1,510	13	1,630	4	1,520
10	1,550	24	958	5	1,500
11	1,780	25	1,370	8	1,650
		May 1	1,330	9	1,720
1976					
Mar. 25	824	1976-Con.		1976-Con.	
30	1,310	May 8	773	May 12	1,640
31	1,840	10	1,250	13	1,700
		11	1,670	14	1,650
				15	1,710

MISSISSIPPI RIVER DELTA

07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE, LA--Continued

Month	Cfs-days	Maximum	Mean	Runoff in Acre-feet
Feb. 1973	26,873	1,420	960	53,300
Mar. 1973	31,468	1,910	1,015	62,420
Apr. 1973	51,440	2,190	1,715	102,000
May 1973	49,690	2,030	1,603	98,560
WTR YR 1973	275,370.4	2,190	754	546,200
CAL YR 1973	278,084.0	2,190	762	551,600
Jan. 1974	45,620	2,130	1,472	90,490
Feb. 1974	35,843	2,030	1,280	71,090
WTR YR 1974	194,927	2,130	534	386,600
CAL YR 1974	182,958	2,130	501	362,900
Jan. 1975	37,932	1,780	1,224	75,240
May 1975	34,053	1,720	1,098	67,540
WTR YR 1975	218,525	1,780	599	433,400
CAL YR 1975	200,999	1,780	551	398,700
Mar. 1976	22,762	1,840	734	45,150
May 1976	23,682	1,710	764	46,970
WTR YR 1976	135,820	1,840	371	269,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	170	217	272	516	135	339	1760	27	23	71	840
2	98	125	156	246	475	110	317	1880	24	24	44	750
3	72	95	117	284	626	127	295	1830	23	36	35	670
4	61	81	96	401	920	1010	571	1700	27	53	41	600
5	57	74	84	435	838	1040	991	1590	25	38	42	520
6	54	70	99	380	832	1030	859	1460	32	41	38	460
7	54	66	363	304	822	1090	757	1330	36	39	35	380
8	57	61	417	253	772	1140	649	1220	29	29	33	350
9	58	32	323	479	702	1180	543	1110	24	28	43	381
10	60	21	232	828	627	1200	472	1000	23	28	39	852
11	62	19	168	822	557	1180	395	899	20	30	35	929
12	63	44	175	850	490	1140	332	798	19	126	38	841
13	64	161	525	923	407	1080	269	704	20	139	68	797
14	64	173	573	1630	305	1010	195	622	30	89	81	742
15	63	150	665	1490	232	933	148	527	137	60	55	632
16	64	117	644	1370	188	848	120	378	352	48	49	540
17	64	83	556	1280	160	757	101	224	309	38	48	466
18	63	85	442	1250	140	625	240	151	233	33	40	372
19	64	84	329	1200	126	486	540	108	148	28	34	228
20	65	124	274	1130	115	392	1120	81	92	37	31	150
21	64	182	310	1040	107	276	2400	82	66	39	51	115
22	65	177	307	948	100	199	2720	77	56	36	600	97
23	66	137	249	866	94	160	2330	74	56	34	1280	80
24	65	106	193	781	90	139	2170	68	53	35	1400	69
25	65	91	285	686	82	137	2190	60	49	35	1250	61
26	65	81	696	599	85	132	2190	51	42	39	1100	56
27	66	75	754	530	135	121	2140	43	33	82	1050	53
28	67	82	742	466	152	256	2130	38	30	117	1000	51
29	73	190	651	397	---	475	1950	34	27	73	1000	52
30	103	269	507	327	---	451	1810	31	25	78	980	49
31	156	---	355	435	---	362	---	30	---	107	920	---
TOTAL	2206	3225	11504	22902	10695	19221	31283	19960	2067	1642	11531	12183
MEAN	71.2	108	371	739	382	620	1043	644	68.9	53.0	372	406
MAX	156	269	754	1630	920	1200	2720	1880	352	139	1400	929
MIN	54	19	84	246	82	110	101	30	19	23	31	49
AC-FT	4380	6400	22820	45430	21210	38120	62050	39590	4100	3260	22870	24160
CAL YR 1976	TOTAL	132117	MEAN	361	MAX	1840	MIN	19	AC-FT	262100		
WTR YR 1977	TOTAL	148419	MEAN	407	MAX	2720	MIN	19	AC-FT	294400		

07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.75	4.81	5.02	5.41	7.27	4.37	6.02	14.11	3.06	2.94	3.69	---
2	4.29	4.41	4.50	5.20	7.00	4.14	5.87	15.82	2.98	2.96	3.36	---
3	3.98	4.08	4.13	5.51	8.24	4.28	5.71	15.01	2.94	3.24	3.21	---
4	3.83	3.91	3.91	6.41	9.77	11.00	8.24	13.79	3.05	3.47	3.32	---
5	3.76	3.82	3.76	6.67	9.25	10.53	10.61	13.02	3.00	3.26	3.33	---
6	3.72	3.76	3.91	6.26	9.22	10.32	9.37	12.42	3.16	3.31	3.27	---
7	3.71	3.70	6.13	5.67	9.16	10.62	8.78	11.84	3.23	3.29	3.22	---
8	3.75	3.62	6.54	5.26	8.87	10.87	8.11	11.28	3.09	3.11	3.18	---
9	3.78	3.03	5.83	6.89	8.45	11.09	7.45	10.72	2.95	3.08	3.34	6.32
10	3.80	2.65	5.08	9.25	7.98	11.16	6.96	10.15	2.94	3.07	3.29	9.77
11	3.82	2.58	4.55	9.22	7.53	11.08	6.44	9.59	2.84	3.09	3.21	10.03
12	3.83	3.12	4.60	9.38	7.09	10.90	5.97	9.02	2.78	4.27	3.27	9.27
13	3.83	4.66	7.30	9.80	6.53	10.59	5.51	8.45	2.82	4.41	3.66	9.01
14	3.83	4.76	7.63	15.18	5.77	10.22	4.90	7.95	3.11	3.91	3.82	8.69
15	3.82	4.56	8.24	13.65	5.21	9.79	4.48	7.34	4.31	3.58	3.50	8.01
16	3.82	4.23	8.10	12.02	4.84	9.31	4.24	6.31	6.11	3.42	3.43	7.42
17	3.81	3.85	7.51	11.57	4.59	8.78	4.04	5.13	5.81	3.27	3.41	6.93
18	3.80	3.88	6.71	11.41	4.42	7.97	5.14	4.51	5.22	3.19	3.30	6.26
19	3.80	3.86	5.87	11.17	4.29	7.06	7.43	4.12	4.47	3.08	3.20	5.17
20	3.80	4.27	5.43	10.82	4.19	6.42	10.77	3.82	3.94	3.24	3.15	4.50
21	3.78	4.79	5.72	10.37	4.11	5.56	20.91	3.83	3.65	3.28	3.45	4.17
22	3.79	4.74	5.70	9.88	4.03	4.93	22.11	3.77	3.52	3.24	8.08	3.99
23	3.79	4.39	5.22	9.41	3.97	4.58	21.03	---	3.53	3.20	15.22	3.80
24	3.77	4.08	4.76	8.91	3.93	4.41	20.06	---	3.48	3.21	15.33	3.68
25	3.77	3.90	5.74	8.35	3.84	4.39	19.18	---	3.43	3.22	---	3.57
26	3.76	3.78	8.44	7.80	3.87	4.35	18.34	3.46	3.33	3.28	---	3.51
27	3.78	3.69	8.80	7.36	4.37	4.25	17.51	3.34	3.19	3.78	---	3.47
28	3.77	3.77	8.72	6.94	4.52	5.34	16.55	3.27	3.12	4.21	---	3.45
29	3.85	4.80	8.14	6.45	---	6.98	15.42	3.20	3.04	3.72	---	3.46
30	4.20	5.45	7.17	5.94	---	6.83	14.39	3.15	2.99	3.78	---	3.42
31	4.70	---	6.06	6.72	---	6.20	---	3.12	---	4.11	---	---
MEAN	3.89	4.03	6.10	8.54	6.15	7.69	10.72	---	3.50	3.43	---	---
MAX	4.75	5.45	8.80	15.18	9.77	11.16	22.11	15.82	6.11	4.41	15.33	10.03
MIN	3.71	2.58	3.76	5.20	3.84	4.14	4.04	3.12	2.78	2.94	3.15	3.42

MISSISSIPPI RIVER DELTA

07383510 BAYOU DES GLAISES DIVERSION CHANNEL NEAR MOREAUVILLE, LA

LOCATION.--Lat 30°59'59", long 91°58'57", in NW¼SE¼ sec.4, T.1 S., R.5 E., Avoyelles Parish, Hydrologic Unit 08080102, near center of channel on downstream side of bridge on unnumbered parish road 2.5 mi (4.2 km) south of Moreauville, and 2.5 mi (4.2 km) downstream from gaging station Bayou des Glaisses diversion channel at Moreauville (sta 07383500).

DRAINAGE AREA.--284 mi² (736 km²).

PERIOD OF RECORD.--April 1972 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 21.18 ft (6.456 m) above mean sea level (Louisiana Geodetic Survey bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum and minimum gage heights for water years 1972-77 are contained in the following table:

Water year	Maximum				Minimum	
	Date	Gage height		Date	Gage height	
		(feet)	(meters)		(feet)	(meters)
1972a	May 3	10.68	3.255	Aug. 25	2.46	.750
1973	Mar. 25	20.09	6.245	Oct. 3	2.43	.741
1974	Jan. 28	18.80	5.730	July 30, 31	2.61	.796
1975	Jan. 10	17.71	5.398	Nov. 16, 17	2.28	.695
1976	May 11	16.09	4.904	Aug. 25	2.51	.765
1977	Apr. 21	22.76	6.937	Nov. 11	2.14	.652

a Period Apr. 17 to Sept. 30.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	2.83	2.86	2.53	3.31	2.51
2							---	5.36	2.77	2.51	3.22	2.52
3							---	10.16	2.73	2.52	3.09	2.52
4							---	8.82	2.72	2.56	3.10	2.51
5							---	8.28	2.72	2.57	3.07	2.50
6							---	7.94	2.71	2.65	2.90	2.49
7							---	7.65	2.70	3.07	2.76	2.49
8							---	7.74	2.68	3.04	2.66	2.48
9							---	7.62	2.72	2.86	2.60	2.48
10							---	7.38	2.73	2.76	2.55	2.50
11							---	7.02	2.67	2.69	2.50	2.58
12							---	6.82	2.69	2.68	2.50	2.60
13							---	7.93	2.67	2.71	2.49	2.56
14							---	7.50	2.67	2.84	2.49	2.56
15							---	7.05	2.73	2.86	2.51	2.58
16							---	6.17	3.00	2.82	2.54	2.58
17							2.90	5.17	2.77	2.77	2.51	2.60
18							2.91	4.49	3.40	3.27	2.50	2.60
19							2.98	4.02	3.68	2.85	2.50	2.60
20							2.95	3.93	3.46	2.94	2.54	2.58
21							2.94	4.00	3.22	2.86	2.54	2.61
22							4.36	3.80	3.05	2.75	2.51	2.65
23							4.86	3.55	2.94	2.62	2.51	2.64
24							3.94	3.33	2.85	2.55	2.48	2.65
25							3.37	3.15	2.78	2.51	2.46	2.74
26							3.07	3.05	2.72	2.52	2.47	2.75
27							2.91	2.96	2.66	2.56	2.48	2.74
28							2.85	2.89	2.61	2.52	2.48	2.85
29							2.86	2.84	2.58	2.85	2.53	2.97
30							2.85	2.83	2.56	3.36	2.55	2.67
31							---	2.92	---	3.36	2.53	---
MEAN							---	5.46	2.84	2.77	2.64	2.60
MAX							---	10.16	3.68	3.36	3.31	2.97
MIN							---	2.83	2.56	2.51	2.46	2.48

07383510 BAYOU DES GLAISES DIVERSION CHANNEL NEAR MOREAUVILLE, LA--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.50	6.23	4.47	9.89	11.04	5.60	12.72	12.26	8.93	3.91	3.38	2.67
2	2.45	8.15	4.10	10.68	9.98	4.88	12.53	12.82	8.68	3.74	3.34	2.91
3	2.44	8.08	3.83	11.18	9.03	4.36	12.34	15.92	8.44	3.58	3.36	2.91
4	2.45	7.38	3.97	10.81	8.90	7.45	12.11	14.96	8.21	3.43	3.30	2.92
5	2.45	6.93	6.39	10.07	8.82	7.99	11.85	13.61	8.01	3.45	3.15	4.08
6	2.45	6.12	12.77	10.88	8.62	8.58	11.60	12.98	7.86	3.96	3.04	11.79
7	2.46	5.24	10.78	11.50	8.35	11.01	15.48	14.39	7.57	4.38	2.92	11.21
8	2.48	4.64	9.13	11.95	9.31	8.85	14.76	15.42	7.34	4.02	2.90	10.67
9	2.48	4.22	8.88	10.82	12.25	8.40	13.11	14.13	7.07	3.56	2.91	9.73
10	2.49	4.00	9.07	10.38	10.30	8.22	12.39	13.48	6.72	3.25	2.95	9.37
11	2.49	3.79	9.17	10.22	9.53	9.16	12.04	13.22	6.26	3.08	2.99	9.35
12	2.50	3.62	9.44	10.00	9.36	8.71	11.80	13.10	5.79	2.99	2.97	9.51
13	2.51	5.84	10.92	9.80	10.81	8.59	11.60	13.03	5.50	2.99	2.90	11.33
14	2.50	8.06	10.12	9.53	16.31	8.48	11.36	12.93	5.40	3.00	2.89	10.94
15	2.51	7.42	11.44	9.20	13.83	8.25	11.14	12.84	5.83	2.96	2.78	10.13
16	2.54	7.20	10.65	8.88	11.72	9.11	13.92	12.70	6.28	2.88	2.74	9.60
17	2.55	6.70	10.02	8.55	10.86	9.25	16.91	12.56	6.37	2.84	2.69	9.19
18	2.56	5.78	9.70	8.24	10.47	8.97	19.16	12.37	6.31	2.82	2.66	8.79
19	2.57	5.62	9.44	7.96	10.12	9.14	17.77	12.18	6.17	2.88	2.65	8.40
20	2.57	6.42	9.75	7.68	9.76	9.55	16.02	11.97	6.03	2.93	2.65	8.03
21	2.58	6.32	14.27	9.64	9.39	9.60	14.97	11.74	5.73	2.84	2.65	7.68
22	2.96	5.66	12.99	9.25	9.03	9.48	13.61	11.49	5.59	2.78	2.60	7.27
23	3.87	4.93	11.44	8.72	8.70	9.39	13.50	11.20	5.39	2.75	2.56	6.70
24	6.81	4.43	11.00	8.61	8.37	15.95	13.38	10.88	4.89	2.73	2.53	5.94
25	7.15	6.66	10.90	8.48	8.05	19.55	14.33	10.63	4.44	3.18	2.52	5.20
26	7.43	7.13	10.87	9.42	7.72	17.84	14.25	10.38	4.16	3.37	2.51	4.35
27	7.84	6.26	10.80	8.87	7.31	15.64	13.88	10.13	4.21	3.00	2.49	3.68
28	7.65	5.80	10.64	9.15	6.58	14.28	13.22	9.87	4.28	3.20	2.48	3.72
29	7.45	5.60	10.40	8.66	---	13.58	12.79	9.61	4.20	3.70	2.48	3.60
30	7.23	4.98	10.13	8.33	---	13.13	12.50	9.36	4.09	3.71	2.50	3.33
31	6.92	---	9.86	8.07	---	12.91	---	9.13	---	3.59	2.56	---
MEAN	3.80	5.97	9.59	9.53	9.80	10.19	13.57	12.30	6.19	3.27	2.81	7.17
MAX	7.84	8.15	14.27	11.95	16.31	19.55	19.16	15.92	8.93	4.38	3.38	11.79
MIN	2.44	3.62	3.83	7.68	6.58	4.36	11.14	9.13	4.09	2.73	2.48	2.67

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.25	2.88	10.22	---	13.73	7.61	5.30	7.56	4.17	3.51	2.66	3.75
2	3.42	3.00	10.17	---	14.80	7.12	5.64	6.98	4.72	3.39	2.95	4.33
3	3.35	3.15	10.05	---	14.81	6.34	4.30	6.03	4.95	3.26	3.26	3.42
4	3.17	5.15	10.08	---	13.65	5.56	3.91	5.00	4.50	3.14	3.60	3.56
5	2.97	13.22	9.95	12.40	12.98	5.16	3.72	5.60	4.05	3.06	3.53	3.36
6	2.83	10.30	9.68	11.39	12.93	---	3.60	5.82	4.03	3.55	3.28	3.16
7	2.78	7.33	9.39	11.54	13.37	---	3.49	4.94	4.14	4.28	3.03	2.96
8	2.76	7.27	9.07	10.57	12.66	4.11	3.40	4.28	4.04	4.41	2.87	3.47
9	2.75	8.33	8.75	10.07	12.13	3.77	3.33	3.87	3.86	4.31	2.76	4.91
10	2.74	7.34	8.40	9.71	11.73	3.66	3.25	3.64	3.93	4.98	2.69	5.85
11	2.70	6.56	8.06	14.62	11.32	3.63	3.21	3.55	5.05	4.76	2.67	6.13
12	4.23	5.52	7.74	15.41	10.98	3.62	5.25	5.76	4.31	4.26	2.68	5.56
13	6.51	4.71	7.40	12.70	10.61	3.59	15.23	6.33	3.95	3.86	2.73	5.02
14	7.79	4.10	6.84	11.31	10.22	3.55	15.55	5.93	3.70	3.64	2.70	5.19
15	9.62	3.72	5.99	10.80	10.19	3.50	14.10	5.10	3.58	3.77	2.72	4.36
16	8.48	3.49	4.98	10.43	11.08	3.46	11.90	4.38	3.57	3.40	2.97	4.09
17	8.03	3.31	4.33	10.01	10.50	3.39	11.02	3.91	4.54	3.37	3.07	3.77
18	7.84	3.17	3.98	9.63	10.32	3.35	10.90	3.62	7.94	3.32	2.98	3.43
19	7.57	3.08	4.09	11.72	10.56	3.32	10.92	3.44	7.79	3.24	2.84	3.18
20	7.17	3.19	6.59	16.06	10.25	3.31	10.93	3.69	6.46	3.15	2.76	3.03
21	6.53	5.56	7.39	13.72	10.00	3.96	10.88	4.14	6.04	3.06	2.74	2.93
22	5.47	6.76	7.46	12.02	9.74	3.50	10.69	4.88	5.51	2.98	2.75	2.84
23	4.62	6.97	7.32	12.14	9.50	3.44	10.43	6.81	4.92	2.92	2.71	2.79
24	4.01	7.01	11.42	13.45	9.26	3.55	10.13	7.25	5.36	2.91	2.66	2.75
25	3.61	13.02	16.58	14.10	8.94	3.81	9.81	7.20	5.19	2.88	2.65	2.74
26	3.34	12.25	14.19	15.99	8.60	4.69	9.47	6.05	4.83	2.80	2.73	2.71
27	3.14	11.44	12.04	15.52	8.27	9.68	9.09	6.79	4.41	2.74	2.85	2.67
28	3.00	12.66	10.76	17.34	7.94	7.80	8.71	6.44	4.06	2.71	3.03	2.66
29	2.92	10.92	10.10	17.78	---	7.06	8.33	5.71	3.82	2.66	2.92	2.70
30	2.84	10.30	---	15.78	---	6.57	7.96	4.96	3.64	2.63	3.09	2.70
31	2.85	---	---	14.46	---	5.80	---	4.37	---	2.62	3.25	---
MEAN	4.59	6.86	---	---	11.11	---	8.15	5.29	4.70	3.41	2.91	3.67
MAX	9.62	13.22	16.58	17.78	14.81	9.68	15.55	7.56	7.94	4.98	3.60	6.13
MIN	2.70	2.88	3.98	9.63	7.94	3.31	3.21	3.44	3.57	2.62	2.65	2.66

07383510 BAYOU DES GLAISES DIVERSION CHANNEL NEAR MOREAUVILLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.65	2.97	5.29	10.16	7.41	4.07	4.72	14.87	7.44	4.30	---	5.34
2	2.60	2.96	4.42	9.92	6.78	3.83	5.36	12.39	7.24	4.87	---	5.34
3	2.54	2.94	3.93	9.74	5.86	3.66	6.49	10.88	6.98	6.18	---	4.51
4	2.50	2.94	3.67	9.64	5.11	4.19	4.54	14.16	6.62	5.93	---	3.80
5	2.47	2.93	3.54	9.50	5.01	6.40	3.99	13.05	6.09	5.46	11.60	3.44
6	2.49	2.92	6.69	9.26	5.47	6.87	3.75	11.44	5.42	4.85	11.76	3.95
7	2.61	2.90	12.26	10.84	5.22	6.91	3.79	10.87	---	4.28	11.10	4.21
8	2.64	2.93	10.37	16.32	4.79	6.48	5.65	14.74	---	3.87	10.22	3.88
9	2.63	2.96	9.40	14.24	4.39	5.72	9.37	14.17	7.46	3.79	10.23	3.72
10	2.63	2.98	9.31	15.90	4.14	4.94	8.49	12.48	11.87	3.72	10.36	3.50
11	2.62	3.12	9.54	16.39	3.98	4.40	8.32	11.54	11.98	5.27	10.47	3.35
12	2.60	3.84	9.63	14.30	3.84	4.11	8.11	11.14	9.40	5.66	10.48	3.27
13	2.60	4.30	9.45	12.95	3.91	6.26	7.93	10.87	8.49	5.28	10.35	3.76
14	2.59	3.18	9.29	12.14	4.22	9.17	8.88	10.59	8.25	5.13	10.10	4.27
15	2.60	2.39	10.06	11.48	4.09	8.45	9.32	10.49	9.70	4.85	9.76	4.05
16	2.62	2.29	9.63	11.09	6.25	8.39	8.41	10.65	9.88	4.33	9.37	3.79
17	2.63	2.33	9.15	10.69	8.48	8.50	8.10	9.99	8.20	3.86	8.98	4.26
18	2.63	2.40	8.80	10.24	8.46	10.86	7.74	9.57	7.54	3.55	9.58	5.22
19	2.63	2.36	8.60	9.89	8.60	10.09	7.69	9.18	7.27	3.38	8.25	5.09
20	2.66	4.97	8.29	9.54	8.56	9.31	7.40	8.80	7.21	3.94	7.91	4.44
21	2.72	7.43	7.94	9.16	8.40	9.01	7.08	8.44	6.49	4.13	7.56	3.85
22	2.76	7.51	7.58	8.77	8.17	8.77	7.13	8.06	5.77	3.74	7.23	3.45
23	2.78	7.52	8.44	8.42	7.86	8.51	7.24	7.73	5.98	3.46	6.92	3.23
24	2.79	7.69	13.04	9.30	7.52	9.28	7.09	7.38	6.92	3.40	6.55	3.10
25	2.80	7.75	10.86	12.88	7.08	8.62	6.76	6.90	6.85	3.63	6.10	3.04
26	2.81	7.67	10.60	10.46	6.26	8.06	6.14	6.41	6.50	3.87	5.47	3.00
27	2.82	7.48	10.77	9.29	5.29	7.63	5.39	6.19	6.19	3.75	4.79	2.96
28	2.82	7.21	10.43	8.84	4.55	6.98	4.85	5.97	5.66	3.62	4.27	2.95
29	2.89	6.85	10.14	8.50	---	6.05	4.58	6.94	5.03	3.81	3.87	2.96
30	2.84	6.16	10.47	8.16	---	5.41	7.32	8.07	4.51	4.20	3.73	2.89
31	2.91	---	10.33	7.82	---	5.16	---	7.68	---	5.65	5.14	---
MEAN	2.67	4.46	8.77	10.83	6.06	6.97	6.72	10.05	---	4.38	---	3.82
MAX	2.91	7.75	13.04	16.39	8.60	10.86	9.37	14.87	11.98	6.18	11.76	5.34
MIN	2.47	2.29	3.54	7.82	3.84	3.66	3.75	5.97	4.51	3.38	3.73	2.89

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.82	3.95	6.23	6.90	13.54	3.55	12.64	3.45	3.89	2.94	4.54	2.92
2	2.77	3.68	6.37	6.09	11.07	3.48	11.26	3.27	5.62	3.60	4.12	3.07
3	2.73	3.49	6.19	5.98	9.85	3.42	10.96	3.18	5.92	4.05	3.80	3.10
4	2.71	3.69	5.49	6.95	9.41	3.34	10.87	3.16	5.71	3.68	3.55	2.93
5	2.70	4.56	4.76	7.21	8.98	3.28	10.65	3.13	5.27	3.45	3.41	2.82
6	2.69	4.40	4.20	6.87	8.58	3.33	10.30	2.98	4.80	3.37	3.28	2.73
7	2.69	4.04	3.86	6.23	8.14	4.04	9.87	3.44	4.72	3.90	3.18	2.68
8	2.71	3.73	3.65	5.49	7.69	5.74	9.38	9.03	4.67	4.31	3.00	2.64
9	2.69	3.51	3.53	4.98	6.98	6.78	8.85	8.27	4.27	3.84	2.97	2.62
10	2.71	3.36	3.39	3.50	5.84	6.79	8.30	11.62	3.89	3.55	2.92	2.58
11	2.71	3.27	3.30	4.14	4.92	6.69	7.72	15.52	3.60	3.43	2.76	2.56
12	2.69	3.24	3.25	3.91	4.35	6.14	6.82	13.97	3.37	3.32	2.71	2.54
13	2.71	3.18	3.20	3.79	4.01	5.34	5.89	13.74	3.11	3.77	2.74	2.56
14	2.69	3.11	3.17	3.71	3.81	6.44	5.36	13.44	3.00	5.76	2.75	2.61
15	2.69	3.06	3.15	3.65	3.69	10.87	4.85	13.72	2.99	5.87	2.75	2.66
16	2.97	3.02	3.17	3.62	3.56	10.24	4.35	12.22	3.02	5.32	2.77	2.69
17	5.89	2.99	3.28	3.62	3.42	9.71	4.02	11.27	3.52	6.06	2.76	2.69
18	6.79	2.96	3.75	3.53	3.35	9.59	3.90	10.64	4.67	8.22	2.74	2.68
19	7.23	2.96	3.98	3.34	3.37	9.47	3.82	10.06	5.08	8.14	2.70	2.67
20	7.07	3.00	3.77	3.28	3.50	9.21	3.68	9.51	5.27	8.23	2.64	2.67
21	6.53	3.49	3.54	3.21	3.99	8.80	3.71	8.96	5.26	8.57	2.60	2.67
22	5.56	3.81	3.39	3.16	5.96	8.33	3.80	8.49	4.95	8.77	2.57	2.69
23	4.64	3.70	3.28	3.14	6.37	7.75	3.78	7.98	4.42	8.74	2.55	2.93
24	3.98	3.48	3.22	3.14	5.99	6.84	3.61	7.36	3.89	8.51	2.54	2.95
25	3.66	4.31	6.74	7.36	5.24	9.44	3.55	6.62	3.51	8.12	2.52	2.84
26	3.66	4.60	8.25	12.80	4.55	10.34	3.45	6.03	3.30	7.65	2.54	2.77
27	5.14	4.44	7.97	10.12	4.08	9.17	3.44	5.38	3.30	7.11	2.60	2.76
28	5.65	4.62	7.94	9.21	3.82	8.67	3.60	4.73	3.11	6.65	2.60	3.05
29	5.30	5.32	8.20	9.09	3.64	8.33	3.53	4.35	3.08	6.25	3.06	3.71
30	4.74	6.11	7.95	8.95	---	11.26	3.44	4.03	3.06	5.72	3.84	4.05
31	4.28	---	7.51	10.10	---	15.12	---	3.75	---	5.12	3.22	---
MEAN	3.99	3.77	4.83	5.71	5.92	7.47	6.31	7.85	4.14	5.68	2.99	2.83
MAX	7.23	6.11	8.25	12.80	13.54	15.12	12.64	15.52	5.92	8.77	4.54	4.05
MIN	2.69	2.96	3.15	3.14	3.35	3.28	3.44	2.98	2.99	2.94	2.52	2.54

07383510 BAYOU DES GLAISES DIVERSION CHANNEL NEAR MOREAUVILLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.92	3.92	4.18	4.64	6.58	3.66	5.43	13.75	2.50	2.44	3.09	9.41
2	3.51	3.57	3.71	4.45	6.23	3.46	5.16	16.08	2.46	2.45	2.76	9.03
3	3.21	3.28	3.37	4.95	8.31	3.82	5.00	15.00	2.42	2.61	2.61	8.57
4	3.06	3.13	3.16	5.61	9.69	11.60	8.67	13.40	2.48	2.82	2.69	8.12
5	2.98	3.04	3.02	5.79	8.57	10.52	10.97	12.30	2.46	2.90	2.71	7.56
6	2.92	2.99	3.62	5.43	8.25	9.83	8.93	11.54	2.52	3.20	2.69	6.77
7	2.90	2.92	6.09	3.89	8.13	9.77	7.99	10.89	2.58	2.76	2.68	5.48
8	2.93	2.86	5.82	4.50	7.85	9.83	7.29	10.33	2.50	2.59	2.64	4.77
9	2.97	2.45	5.04	6.59	7.44	9.94	6.60	9.76	2.43	2.55	2.76	5.28
10	2.98	2.19	4.34	8.76	6.99	10.02	6.16	9.19	2.41	2.55	2.76	9.91
11	3.00	2.16	3.81	8.23	6.58	9.94	5.64	8.63	2.37	2.55	2.72	10.10
12	3.01	2.59	3.93	8.25	6.21	9.82	5.18	8.04	2.34	3.48	2.79	9.67
13	3.02	3.77	6.56	8.80	5.67	9.50	4.74	7.50	2.35	3.68	3.10	8.18
14	3.01	4.06	6.83	15.78	4.98	9.14	4.16	6.99	2.59	3.26	3.34	8.09
15	3.00	3.81	7.57	13.94	4.47	8.72	3.75	6.40	4.65	2.95	3.07	7.25
16	3.00	3.47	7.21	11.61	4.15	8.27	3.52	5.43	5.80	2.79	2.94	6.62
17	2.99	3.08	6.59	10.67	3.93	7.77	3.37	4.29	5.10	2.66	2.92	6.07
18	2.98	3.09	5.76	10.35	3.76	7.05	4.28	3.67	4.41	2.61	2.85	5.46
19	2.97	3.10	5.06	10.07	3.63	6.19	6.30	3.35	3.72	2.53	2.76	4.40
20	2.96	3.62	4.86	9.70	3.53	5.59	9.73	3.07	3.24	2.63	2.73	3.78
21	2.95	3.98	4.96	9.25	3.44	4.80	21.56	3.06	2.97	2.69	3.35	3.50
22	2.96	3.91	4.88	8.76	3.36	4.18	22.52	2.94	2.85	2.64	8.41	3.32
23	2.95	3.60	4.45	8.31	3.30	3.86	21.72	2.86	2.84	2.62	16.54	3.16
24	2.94	3.31	4.03	7.86	3.26	3.69	20.83	2.90	2.81	2.63	15.63	3.03
25	2.93	3.14	5.97	7.32	3.18	3.69	19.83	2.87	2.78	2.65	12.85	2.94
26	2.92	3.03	8.23	6.80	3.23	3.65	18.84	2.78	2.70	2.72	10.90	2.87
27	2.93	2.95	7.89	6.41	3.66	3.55	17.85	2.67	2.60	3.08	10.12	2.82
28	2.92	3.27	7.72	6.09	3.80	4.74	16.53	2.65	2.56	3.55	9.85	2.79
29	2.97	4.27	7.16	5.63	---	6.14	15.24	2.69	2.51	3.15	9.76	2.79
30	3.27	4.63	6.28	5.19	---	5.98	14.04	2.68	2.48	3.12	9.82	2.76
31	3.69	---	5.27	6.26	---	5.43	---	2.56	---	3.41	9.43	---
MEAN	3.06	3.31	5.40	7.74	5.44	6.91	10.39	6.78	2.95	2.85	5.59	5.82
MAX	3.92	4.63	8.23	15.78	9.69	11.60	22.52	16.08	5.80	3.68	16.54	10.10
MIN	2.90	2.16	3.02	3.89	3.18	3.46	3.37	2.56	2.34	2.44	2.61	2.76

MISSISSIPPI RIVER DELTA

07384400 STATE CANAL NEAR KROTZ SPRINGS, LA

LOCATION.--Lat 30°33'55", long 91°49'55", in NW1/4 sec. 2, T.6 S., R.6 E., St. Landry Parish, Hydrologic Unit 08080101, at bridge on U.S. Highway 71, 1.7 mi (2.7 km) upstream from Slow Bayou, 2.0 mi (3.2 km) north of the junction of U.S. Highways 71 and 190, and 5.0 mi (8.0 km) northwest of town of Krotz Springs.

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

GAGE.--Water-stage recorder. Datum of gage is 2.55 ft (0.777 m) above mean sea level. Crest-stage gage prior to 1967 at datum 2.55 ft (0.777 m) lower.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.64 ft (6.291 m) May 27, 1973; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.57 ft (5.660 m) Apr. 25, 26; minimum not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.45	10.46	11.35	13.78	14.11	13.35	14.32	18.08	11.70	10.85	10.86	15.91
2	10.46	10.45	11.48	13.57	14.15	13.35	14.23	18.04	11.46	10.48	10.87	15.65
3	10.48	10.45	11.48	13.73	14.60	13.30	14.16	17.98	11.20	10.46	10.83	15.36
4	10.48	10.45	11.45	13.75	15.95	13.96	14.10	17.92	10.98	10.42	10.90	14.99
5	10.51	10.45	11.40	13.75	16.13	14.90	14.13	17.80	10.75	10.32	10.85	14.75
6	10.52	10.45	11.37	13.67	16.14	15.24	14.43	17.69	10.58	10.28	10.87	14.78
7	10.52	10.45	11.78	13.63	16.05	15.28	14.58	17.57	10.44	10.56	10.84	15.02
8	10.50	10.44	12.33	13.55	15.90	---	14.60	17.42	10.27	10.63	10.80	14.43
9	10.49	10.43	13.58	13.43	15.73	---	14.42	17.25	10.09	10.59	10.75	14.44
10	10.48	10.43	13.50	13.42	15.50	---	14.18	17.06	---	10.67	10.71	15.10
11	10.48	10.43	13.33	13.48	15.25	---	13.93	16.82	---	10.62	10.70	16.12
12	10.47	10.52	13.16	13.72	15.04	---	13.72	16.58	---	10.73	10.87	16.13
13	10.47	10.51	13.17	13.79	14.85	---	13.51	16.32	---	10.80	11.31	15.96
14	10.47	10.58	13.34	14.62	14.67	---	13.30	16.03	10.15	10.85	12.14	16.23
15	10.45	10.59	13.99	15.76	14.55	---	13.12	15.73	11.60	10.88	12.52	16.27
16	10.42	10.57	14.13	16.00	13.38	---	12.97	15.45	11.02	10.87	12.51	16.27
17	10.40	10.58	14.02	16.05	13.18	---	12.84	15.17	11.10	10.74	12.32	16.18
18	10.37	10.60	13.78	16.00	13.08	---	12.78	14.90	11.24	10.60	12.08	16.03
19	10.33	10.67	13.63	15.89	12.93	---	12.72	14.66	11.36	10.52	11.95	15.80
20	10.31	10.80	13.51	15.76	12.75	---	12.80	14.36	11.41	10.38	12.12	15.54
21	10.27	10.87	13.38	15.53	12.55	---	16.58	14.12	11.40	10.35	12.09	15.24
22	10.25	10.88	13.35	15.33	12.40	---	17.58	13.92	11.38	10.30	14.14	14.90
23	10.22	10.91	13.27	15.10	12.28	---	18.06	13.70	11.33	10.27	15.46	14.58
24	10.20	10.92	13.16	14.86	12.48	---	18.35	13.49	11.25	10.23	16.08	14.27
25	10.18	10.93	13.10	14.64	12.53	---	18.54	13.30	11.17	10.18	16.55	14.00
26	10.14	10.95	13.86	14.45	12.50	13.23	18.57	13.13	11.10	10.13	16.60	13.75
27	10.13	10.95	14.18	14.30	12.95	13.14	18.53	12.81	11.05	10.35	16.51	13.54
28	10.15	11.05	14.59	14.14	13.22	13.13	18.44	12.58	11.01	10.77	16.42	13.35
29	10.15	11.22	14.38	13.96	---	13.11	18.33	12.38	10.95	11.06	16.28	12.92
30	10.54	11.30	14.10	13.82	---	13.17	18.22	12.22	10.92	10.94	16.24	12.70
31	10.47	---	14.00	13.94	---	13.88	---	11.95	---	10.89	16.12	---
MEAN	10.38	10.68	13.13	14.43	14.10	---	15.20	15.37	---	10.57	12.88	15.01
MAX	10.54	11.30	14.59	16.05	16.14	---	18.57	18.08	---	11.06	16.60	16.27
MIN	10.13	10.43	11.35	13.42	12.28	---	12.72	11.95	---	10.13	10.70	12.70

MISSISSIPPI RIVER DELTA

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07385470 BAYOU TECHE AT ROBIN, LA

LOCATION.--Lat 30°26'48", long 91°55'22", in lot 51, T.7 S., R.5 E., Louisiana meridian, St. Landry Parish, Hydrologic Unit 08080102, near center of span on downstream side of bridge on parish road at Robin, and 3.7 mi (6.0 km) upstream from gaging station Bayou Teche at Arnaudville (sta 0738550).

DRAINAGE AREA.--Not determined. See REMARKS.

PERIOD OF RECORD.--October 1974 to current year (elevations only). Unpublished records, November 1947 to September 1974, available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Louisiana Geodetic Survey bench mark). Prior to February 4, 1953, nonrecording gage at same site and datum.

REMARKS.--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 or 197 km²) into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 19.66 ft (5.992 m) Jan. 10, 1975; minimum, 10.14 ft (3.091 m) Sept. 24, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, about 23.0 ft (7.010 m) Apr. 21; minimum, not determined.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.99	11.69	13.20	13.30	15.06	14.55	15.42	18.19	11.75	10.83	11.65	14.38
2	11.07	11.93	13.00	---	15.00	14.40	15.04	18.09	11.55	11.00	11.65	14.04
3	11.08	12.02	12.97	13.98	16.85	13.91	14.86	17.82	11.36	10.87	11.88	13.65
4	10.96	11.92	12.85	14.52	17.72	16.16	14.86	17.42	11.20	10.80	12.03	13.78
5	10.86	11.74	12.67	14.50	17.63	---	15.15	17.04	11.03	10.76	11.98	13.94
6	10.76	11.49	12.81	14.73	16.43	16.08	14.95	16.70	10.92	10.76	11.82	---
7	10.67	11.29	---	14.60	15.62	15.65	14.74	16.33	10.66	10.90	11.64	---
8	10.60	11.24	14.49	14.13	15.15	15.34	14.39	16.06	10.49	10.97	11.46	---
9	10.58	11.27	13.81	13.84	14.60	15.26	14.59	15.78	10.40	10.95	11.32	---
10	10.55	11.24	13.55	14.30	14.52	15.15	14.79	15.42	10.25	10.98	11.21	---
11	10.50	11.13	13.46	15.09	14.51	15.00	14.74	15.10	10.18	10.95	11.15	---
12	10.48	11.06	14.04	14.95	14.58	15.00	14.48	14.77	10.23	11.00	11.26	---
13	10.47	11.04	14.88	---	14.68	---	14.35	14.55	10.36	11.08	11.62	---
14	10.46	11.55	14.80	---	14.70	---	14.31	14.52	10.90	11.17	12.41	---
15	10.45	11.96	14.86	18.88	14.58	15.42	14.22	14.43	12.25	11.18	12.67	---
16	10.43	12.30	14.43	18.40	14.37	14.73	14.08	14.31	13.77	11.19	12.54	---
17	10.42	12.47	14.08	17.80	14.52	---	13.91	14.44	14.26	11.12	12.39	---
18	10.40	12.44	13.80	16.55	14.68	14.51	13.80	14.52	14.37	11.04	12.28	---
19	10.38	12.79	13.61	15.86	14.74	14.50	14.24	14.48	14.21	11.01	12.43	---
20	10.35	13.20	13.60	15.42	14.68	14.49	---	14.34	13.92	10.92	13.25	---
21	10.34	13.11	13.87	15.05	14.53	14.35	---	14.16	13.57	10.84	13.32	---
22	10.33	13.15	13.83	14.64	14.26	14.32	---	---	13.22	10.74	15.51	---
23	10.32	13.07	13.62	14.22	14.22	14.40	---	---	12.90	10.68	17.15	---
24	10.32	12.95	---	13.98	14.10	14.41	---	13.37	12.44	10.66	17.28	---
25	10.30	12.77	---	---	13.93	14.34	---	13.08	12.18	10.64	17.42	---
26	10.26	12.52	---	14.62	14.05	14.28	---	12.78	11.85	10.67	16.87	---
27	10.25	12.27	15.54	14.60	14.75	14.28	---	12.56	11.56	10.94	16.36	13.13
28	10.33	13.34	14.92	14.42	15.04	14.35	19.87	12.39	11.31	11.17	15.83	12.90
29	10.66	14.34	14.51	14.42	---	14.62	19.23	12.25	11.17	11.43	15.31	12.77
30	11.29	14.07	14.14	---	---	14.76	18.58	12.10	11.01	11.58	14.98	12.61
31	11.41	---	13.68	---	---	---	---	11.93	---	11.66	14.73	---
MEAN	10.59	12.25	---	---	14.98	---	---	---	11.64	10.98	13.34	---
MAX	11.41	14.34	---	---	17.72	---	---	---	14.37	11.66	17.42	---
MIN	10.25	11.04	---	---	13.93	---	---	---	10.18	10.64	11.15	---

07385500 BAYOU TECHE AT ARNAUDVILLE, LA

LOCATION.--Lat 30°23'50", long 91°55'50", in lot 63, T.7 S., R.5 E., Louisiana meridian, St. Landry Parish, Hydrologic Unit 08080102, near center of span on downstream side of bridge on State Highway 31, at Arnaudville, and 270 ft (82 m) upstream from Bayou Fusilier.

DRAINAGE AREA.--1,531 mi² (3,965 km²). See REMARKS.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Louisiana Geodetic Survey bench mark). Prior to May 11, 1949, non-recording gage. May 12, 1949, to May 11, 1960, water-stage recorder, May 26, 1960, to Aug. 15, 1961, nonrecording gage. All gages at same site and datum. Water-stage recorder for Bayou Teche at Robin (sta 07385470) used as auxiliary gage for this station.

REMARKS.--Records good. 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 (197 km²), into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Records of water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--28 years, 833 ft³/s (23.59 m³/s), 603,500 acre-ft/yr (744 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s (131 m³/s) May 24, 1953; maximum elevation, 24.27 ft (7.397 m), May 23, 1953; minimum discharge, 53 ft³/s (1.50 m³/s) Aug. 12, 1965; minimum elevation, 6.78 ft (2.067 m) Oct. 28, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 4,000 ft³/s (113 m³/s) Apr. 21, maximum elevation, 22.77 ft (6.940 m) Apr. 22; minimum discharge, 221 ft³/s (6.26 m³/s) July 26, minimum elevation, 9.91 ft (3.021 m) Oct. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	425	466	649	575	907	776	890	1770	410	310	367	698
2	415	496	604	530	938	771	900	1650	400	349	371	642
3	422	510	600	611	1870	986	908	1550	380	325	413	620
4	381	435	589	747	2050	1130	926	1460	370	325	431	610
5	373	399	570	852	2090	1250	961	1380	360	318	416	740
6	370	383	594	880	1450	1220	982	1300	350	324	393	780
7	351	391	780	760	952	1020	860	1200	340	360	366	740
8	347	385	763	705	919	968	728	1120	280	329	335	660
9	354	343	773	728	804	996	761	1050	270	297	323	640
10	350	378	756	877	747	982	878	1000	260	301	304	930
11	338	369	790	897	741	941	860	964	260	303	301	1160
12	336	346	817	871	833	870	805	933	270	312	317	1100
13	329	328	843	840	838	840	806	872	290	320	396	1070
14	328	354	1030	2000	824	830	821	860	396	323	495	1300
15	327	484	843	2460	819	840	788	807	484	325	515	1200
16	319	501	675	2290	785	892	766	794	661	326	501	1020
17	318	536	671	2130	754	910	749	866	705	316	475	910
18	309	542	681	1440	774	928	749	890	936	303	451	850
19	307	591	677	1030	786	904	882	878	885	286	477	810
20	303	638	696	888	758	916	1500	821	790	270	613	780
21	301	601	742	799	747	884	2560	794	690	250	545	760
22	294	601	721	767	766	852	3500	720	630	250	1050	740
23	288	585	666	717	746	884	3400	660	617	248	1490	720
24	299	564	650	605	740	921	3000	623	560	245	1560	700
25	285	538	700	640	720	889	2800	564	517	245	1670	680
26	264	524	780	681	730	865	2500	528	463	249	1530	660
27	279	497	852	707	748	890	2300	512	413	266	1400	630
28	320	573	805	770	752	860	2100	496	379	318	1220	591
29	333	970	783	770	---	906	2000	474	365	352	961	567
30	369	869	719	860	---	946	1900	413	333	362	878	515
31	446	---	640	931	---	910	---	409	---	368	808	---
TOTAL	10480	15197	22459	30358	26588	28777	43580	28358	14464	9475	21372	23823
MEAN	338	507	724	979	950	928	1453	915	482	306	689	794
MAX	446	970	1030	2460	2090	1250	3500	1770	936	368	1670	1300
MIN	264	328	570	530	720	771	728	409	260	245	301	515
AC-FT	20790	30140	44550	60220	52740	57080	86440	56250	28590	18790	42390	47250
CAL YR 1976	TOTAL	275351	MEAN 752	MAX 1460	MIN 242	AC-FT 546200						
WTR YR 1977	TOTAL	274931	MEAN 753	MAX 3500	MIN 245	AC-FT 545300						

MISSISSIPPI RIVER DELTA

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07385500 BAYOU TECHE AT ARNAUDVILLE, LA--Continued

ELEVATION, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.55	11.29	12.75	12.93	14.55	14.10	14.98	17.69	11.44	10.53	11.35	13.97
2	10.65	11.52	12.58	12.91	14.48	13.94	14.53	17.54	11.28	10.67	11.35	13.66
3	10.65	11.60	12.55	13.63	15.42	13.87	14.33	17.22	11.10	10.56	11.55	13.34
4	10.58	11.57	12.43	14.09	16.43	15.57	14.31	16.77	10.93	10.49	11.70	13.20
5	10.48	11.42	12.25	13.98	16.17	15.53	14.60	16.26	10.78	10.45	11.66	13.45
6	10.37	11.16	12.38	14.21	15.61	15.41	14.37	15.82	10.66	10.44	11.51	13.48
7	10.29	10.94	14.35	14.16	15.11	15.10	14.24	15.54	10.43	10.55	11.35	13.56
8	10.22	10.89	14.04	13.71	14.63	14.80	13.96	15.33	10.19	10.66	11.19	13.05
9	10.18	10.97	13.31	13.38	14.13	14.69	14.15	15.13	10.15	10.68	11.05	13.10
10	10.15	10.90	13.04	13.75	14.09	14.58	14.27	14.87	10.11	10.70	10.95	14.99
11	10.12	10.79	13.16	14.58	14.08	14.45	14.24	14.55	10.07	10.67	10.90	15.65
12	10.10	10.74	13.52	14.45	14.09	14.51	14.00	14.21	10.06	10.72	10.99	15.02
13	10.10	10.74	14.40	14.34	14.19	14.26	13.86	14.02	10.08	10.79	11.30	14.68
14	10.09	11.26	14.15	17.08	14.22	14.02	13.81	14.00	10.49	10.89	12.05	15.10
15	10.08	11.56	14.38	17.40	14.10	14.22	13.74	13.95	11.88	10.90	12.30	14.70
16	10.07	11.92	14.04	16.97	13.90	14.22	13.60	13.83	13.17	10.91	12.18	14.34
17	10.06	12.07	13.68	16.35	14.08	14.07	13.44	13.91	13.68	10.84	12.04	14.22
18	10.05	12.03	13.37	15.75	14.24	13.93	13.32	13.97	13.77	10.77	11.94	14.06
19	10.03	12.30	13.17	15.32	14.29	13.94	13.68	13.94	13.64	10.75	12.08	13.75
20	10.00	12.76	13.15	14.94	14.25	13.92	15.01	13.84	13.41	---	12.85	13.74
21	9.99	12.70	13.40	14.61	14.10	13.80	21.63	13.67	13.12	---	12.98	13.73
22	9.99	12.75	13.37	14.20	13.80	13.79	22.73	13.45	12.79	10.51	14.93	13.65
23	9.99	12.67	13.19	13.79	13.77	13.85	22.52	13.20	12.46	10.45	16.42	13.50
24	9.97	12.56	13.29	13.62	13.73	13.83	22.07	12.96	12.01	10.43	16.51	13.33
25	9.97	12.39	14.17	14.18	13.56	13.78	21.41	12.70	11.78	10.41	16.58	13.13
26	9.96	12.14	15.73	14.24	13.58	13.74	20.74	12.41	11.47	10.43	16.05	12.91
27	9.93	11.89	15.09	14.20	14.33	13.72	20.08	12.19	11.21	10.70	15.57	12.70
28	9.95	12.97	14.47	13.96	14.63	13.82	19.43	12.02	10.98	10.89	15.14	12.49
29	10.31	13.71	14.05	13.96	---	14.07	18.77	11.89	10.84	11.14	14.75	12.36
30	10.96	13.50	13.71	14.12	---	14.19	18.16	11.79	10.70	11.29	14.48	12.24
31	11.00	---	13.28	14.73	---	15.44	---	11.61	---	11.37	14.26	---
MEAN	10.22	11.86	13.56	14.50	14.41	14.30	16.33	14.20	11.49	---	12.90	13.70
MAX	11.00	13.71	15.73	17.40	16.43	15.57	22.73	17.69	13.77	11.37	16.58	15.65
MIN	9.93	10.74	12.25	12.91	13.56	13.72	13.32	11.61	10.06	10.41	10.90	12.24

MISSISSIPPI RIVER DELTA

07385500 BAYOU TECHE AT ARNAUDVILLE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1955-56, 1959-60, 1967-73, November 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM 7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA+MG) (MG/L)
NOV 17...	1300	200	7.1	12.5	30	20	9.0	2.1	95	180	--	63
JAN 10...	1600	142	7.2	9.0	110	30	9.4	--	B240	900	--	50
APR 22...	1100	38	5.9	21.5	280	65	6.3	3.4	B3100	--	B12000	10
JUL 21...	1030	268	7.4	29.0	45	50	3.6	--	--	--	320	93

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHORUS (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV 17...	0	15	6.3	13	30	.7	2.8	77	0	63	9.8	6.8
JAN 10...	11	12	4.8	8.8	27	.5	2.6	47	0	39	4.7	10
APR 22...	1	2.9	.6	1.8	25	.3	1.8	11	0	9	22	2.5
JUL 21...	3	23	8.7	16	26	.7	3.0	110	0	90	7.0	8.8

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 17...	16	.1	16	--	114	.16	.37	.58	.95	4.2	.11
JAN 10...	12	.1	10	105	83	.14	.14	--	--	--	.14
APR 22...	2.5	.1	2.9	22	21	.03	.42	--	--	--	.43
JUL 21...	19	.1	14	160	147	.22	.58	--	--	--	.18

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
NOV 17...	2	13	0	<10	<10	0	0	<10	70	7700	0	<10

MISSISSIPPI RIVER DELTA

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07385500 BAYOU TECHE AT ARNAUDVILLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)
NOV 17...	30	720	.0	.0	0	50	6.2	.00	2	.0	6	.00

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
NOV 17...	.0	.00	.0	.0	80	.00	44	.00	13	.00	30	.01

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
NOV 17...	.0	.00	5.7	.00	.0	.00	.0	.00	.0	.00	.5	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
NOV 17...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 17...	0	.00	.0	.00	.35	.00

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)
NOV. 9, 1976...	1340	23.5	15.0	JULY 21	1400	32.0	28.5
DEC. 15.....	0900	15.0	12.0	JULY 26	1510	28.0	29.5
JAN. 24, 1977...	1300	8.0	6.5	AUG. 26	0830	33.0	28.5
FEB. 15.....	0840	10.0	12.0	SEPT. 28	1400	31.0	28.5
MAR. 24.....	0830	18.0	18.0				

0801000 BAYOU DES CANNES NEAR EUNICE, LA

LOCATION.--Lat 30°29'00", long 92°29'25", in SW¼SE¼ sec.32, T.6 S., R.1 W., Louisiana meridian, Evangeline Parish, Hydrologic Unit 08080201, on left bank at downstream side of bridge on U.S. Highway 190, 3.0 mi (4.8 km) downstream from New Orleans, Texas, and Mexico Railway Co. bridge, and 4.0 mi (6.4 km) west of Eunice.

DRAINAGE AREA.--131 mi² (339 km²).

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 (4.523 m) above mean sea level (Louisiana Geodetic Survey bench mark; levels by Corps of Engineers). Prior to Jan. 17, 1940, nonrecording gage at same site and datum. Auxiliary water-stage recorder 1.8 mi (2.9 km) downstream from base gage. Datum of auxiliary gage is 13.70 ft (4.176 m) above mean sea level. See WSP 1732 for history of changes prior to Jan. 13, 1958.

REMARKS.--Records good. Small diversion above station. Records of water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--39 years, 266 ft³/s (7.53 m³/s), 27.57 in/yr (700 mm/yr), 192,700 acre-ft/yr (238 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s (337 m³/s) May 20, 1953, gage height, 22.36 ft (6.82 m). No flow at times in 1939, 1948, 1955-56, 1964, 1971, 1975-77.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,760 ft³/s (191 m³/s) Apr. 22, gage height, 19.66 ft (5.992 m); minimum, 0.60 ft³/s (0.02 m³/s) Oct. 18, 19; minimum gage height, 1.04 ft (0.317 m) June 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	64	94	21	470	26	51	96	2.2	4.5	43	74
2	28	27	48	35	99	15	80	532	2.3	4.8	36	99
3	16	14	29	550	1330	23	52	631	1.3	4.1	49	60
4	11	8.3	21	350	2910	1300	300	274	.95	3.8	30	28
5	9.6	5.9	16	112	1220	842	1000	81	1.2	39	26	27
6	11	6.3	179	72	282	247	350	46	3.8	100	42	41
7	7.8	6.1	2380	43	79	113	76	23	26	60	41	28
8	5.2	4.7	1900	28	44	51	44	30	13	32	26	202
9	4.3	3.3	592	130	33	25	50	21	5.8	21	12	253
10	4.0	3.1	107	550	24	20	78	13	1.9	47	13	1750
11	3.8	3.5	65	119	22	14	50	7.7	1.6	45	21	1380
12	3.8	19	202	52	22	40	77	5.4	1.0	70	41	356
13	3.3	33	918	110	21	47	70	4.1	40	76	65	113
14	2.9	339	546	3000	18	20	61	4.6	800	139	93	586
15	2.5	393	1010	3800	19	14	41	4.5	500	103	124	250
16	2.4	95	516	1700	23	13	76	4.0	219	73	55	162
17	1.8	39	129	500	18	11	70	4.0	219	54	28	69
18	.72	23	69	108	12	12	120	3.6	120	49	27	43
19	.84	125	47	66	9.8	18	100	3.0	59	113	22	30
20	2.4	741	168	41	7.6	18	1280	3.6	32	122	400	22
21	2.6	401	152	34	6.0	11	5590	3.6	13	176	493	15
22	2.8	104	63	27	7.8	13	6700	3.9	7.2	108	1280	11
23	2.9	45	35	23	13	9.4	6360	4.3	4.4	89	3410	8.9
24	3.2	25	27	35	19	8.9	3800	8.8	3.0	65	3280	9.2
25	4.0	17	120	27	14	15	1060	32	2.6	37	1420	7.8
26	2.8	13	1200	23	37	20	308	21	2.0	57	467	7.0
27	1.2	14	550	21	314	24	72	9.6	1.9	108	293	6.2
28	.96	188	120	20	75	250	45	5.4	1.8	121	425	5.7
29	21	1180	72	15	---	180	29	3.4	2.0	109	114	4.9
30	642	477	40	20	---	84	28	2.1	3.8	95	91	3.9
31	323	---	31	763	---	51	---	1.5	---	77	77	---
TOTAL	1198.82	4417.2	11446	12395	7149.2	3535.3	28018	1887.1	2091.75	2202.2	12544	5652.6
MEAN	38.7	147	369	400	255	114	934	60.9	69.7	71.0	405	188
MAX	642	1180	2380	3800	2910	1300	6700	631	800	176	3410	1750
MIN	.72	3.1	16	15	6.0	8.9	28	1.5	.95	3.8	12	3.9
CFSM	.30	1.12	2.82	3.05	1.95	.87	7.13	.46	.53	.54	3.09	1.44
IN.	.34	1.25	3.25	3.52	2.03	1.00	7.96	.54	.59	.63	3.56	1.61
AC-FT	2380	8760	22700	24590	14180	7010	55570	3740	4150	4370	24880	11210

CAL YR 1976 TOTAL 75915.02 MEAN 207 MAX 5660 MIN 0 CFSM 1.58 IN 21.56 AC-FT 150600
WTR YR 1977 TCTAL 92537.17 MEAN 254 MAX 6700 MIN .72 CFSM 1.94 IN 26.28 AC-FT 183500

08010000 BAYOU DES CANNES NEAR EUNICE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.96	3.73	4.55	2.47	9.07	2.64	3.42	4.03	1.27	1.54	3.19	4.00
2	2.72	2.69	3.34	2.96	4.65	2.19	4.15	9.30	1.29	1.56	3.01	4.56
3	2.27	2.17	2.77	10.40	11.34	2.43	3.46	9.97	1.13	1.50	3.38	3.65
4	2.02	1.87	2.44	8.24	16.71	12.81	7.77	7.09	1.07	1.47	2.78	2.70
5	1.94	1.73	2.25	4.83	13.79	11.81	13.40	4.14	1.12	3.08	2.66	2.66
6	2.00	1.75	3.81	3.95	7.72	7.29	8.00	3.28	1.47	---	3.18	3.13
7	1.83	1.74	15.61	3.21	4.11	5.03	4.04	2.52	2.64	---	3.14	2.72
8	1.65	1.64	15.43	2.73	3.22	3.42	3.22	2.81	2.12	2.87	2.65	5.88
9	1.59	1.53	10.57	5.41	2.89	2.63	3.39	2.45	1.65	2.45	2.05	6.38
10	1.56	1.51	5.05	9.69	2.58	2.44	4.09	2.08	---	3.29	2.11	14.43
11	1.54	1.54	3.77	4.98	2.49	2.19	3.40	1.79	---	3.25	2.48	14.13
12	1.54	2.35	5.58	3.45	2.51	3.02	4.07	1.62	---	3.90	3.11	8.18
13	1.51	2.89	11.79	4.81	2.48	3.29	3.91	1.50	---	4.04	3.77	4.65
14	1.48	6.85	9.85	16.98	2.36	2.43	3.67	1.55	---	5.41	4.43	9.68
15	1.45	8.32	12.34	17.80	2.37	2.19	3.15	1.54	---	4.72	5.17	7.13
16	1.44	4.53	9.55	15.00	2.54	2.11	4.04	1.49	6.50	3.98	3.51	5.84
17	1.40	3.06	5.37	9.43	2.34	2.01	3.90	1.49	5.00	3.50	2.71	3.87
18	1.31	2.53	3.87	4.77	2.07	2.05	5.24	1.44	3.62	3.37	2.67	3.20
19	1.32	4.14	3.30	3.81	1.96	2.33	4.57	1.38	2.88	4.89	2.49	2.80
20	1.44	10.68	5.56	3.13	1.84	2.34	10.43	1.44	2.68	4.99	8.10	2.50
21	1.46	8.53	5.66	2.93	1.74	2.01	18.70	1.44	2.10	6.11	9.17	2.19
22	1.47	4.74	3.73	---	1.85	2.10	19.61	1.48	1.76	4.84	12.42	1.97
23	1.48	3.23	2.95	---	2.10	1.94	19.37	1.52	1.53	4.36	16.98	1.87
24	1.50	2.62	2.69	---	2.38	1.91	17.40	1.86	1.37	3.77	17.06	1.89
25	1.56	2.31	4.95	---	2.15	2.22	13.25	2.87	1.32	3.01	14.57	1.80
26	1.47	2.14	13.37	---	2.75	2.40	9.56	2.45	1.24	3.57	9.87	1.74
27	1.35	2.18	9.64	2.46	7.75	2.60	4.59	1.91	1.23	4.79	7.06	1.68
28	1.33	4.51	5.10	2.41	4.06	6.91	3.79	1.62	1.22	5.17	8.90	1.64
29	1.90	12.94	3.96	2.20	---	6.40	3.29	1.42	1.25	4.81	5.19	1.57
30	9.77	9.31	3.11	2.38	---	4.25	3.25	1.26	1.47	4.50	4.43	1.48
31	7.43	---	2.82	10.43	---	3.43	---	1.17	---	4.07	4.06	---
MEAN	2.15	3.99	6.28	---	4.42	3.64	7.14	2.64	---	---	5.69	4.33
MAX	9.77	12.94	15.61	17.80	16.71	12.81	19.61	9.97	---	6.11	17.06	14.43
MIN	1.31	1.51	2.25	2.20	1.74	1.91	3.15	1.17	1.07	---	2.05	1.48

MERMENTAU RIVER BASIN

08011500 BOGGY BAYOU NEAR PINE PRAIRIE, LA

LOCATION.--Lat 30°46'10", long 92°28'03", in SE¼NE¼ (revised) sec.21, T.3 S., R1 W., Louisiana meridian, Evangeline Parish, Hydrologic Unit 08080201, near right bank on downstream side of bridge on State Highway 106, 2.8 mi (4.5 km) upstream from Beaver Creek, and 3.0 mi (4.8 km) west of Pine Prairie.

DRAINAGE AREA.--51.3 mi² (132.9 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 61.33 ft (18.693 m) above mean sea level. Jan. 28, 1952, to Oct. 14, 1958, and Aug. 2, 1961, to Nov. 9, 1965, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--14 years (1948-51, 1966-77), 82.2 ft³/s (2.328 m³/s), 21.76 in/yr (553 mm/yr), 59,550 acre-ft/yr (73.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 (493 m³/s) Apr. 23, 1965, gage height, 18.78 ft (5.724 m), from rating curve extended above 6,560 ft³/s (186 m³/s) on basis of contracted-opening and flow-over-road measurements of peak flow; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 m³/s) and maximum; Apr. 21 (1815) 6,150 ft³/s (174 m³/s), gage height, 15.88 ft (4.840 m); minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	2.8	3.3	10	11	196	20	30	56	.20	0	5.6	22		
2	1.9	1.3	7.2	9.1	121	14	34	388	.12	0	13	19		
3	.85	.61	3.9	14	273	68	54	204	.08	0	7.5	16		
4	.55	.36	2.3	23	499	648	288	58	.04	0	3.9	12		
5	.50	.22	1.5	28	373	807	383	38	0	0	2.7	9.9		
6	.34	.19	17	23	281	611	105	28	0	0	2.1	8.9		
7	.26	.14	97	17	125	389	40	22	0	0	1.5	7.6		
8	.18	.10	68	13	54	159	24	17	0	0	1.4	6.5		
9	.15	.10	30	102	39	63	17	14	0	.02	2.2	7.5		
10	.11	.09	15	261	32	42	13	12	0	.09	1.6	29		
11	.09	.12	8.9	189	29	33	10	9.4	0	.07	1.3	23		
12	.09	.13	16	83	31	27	8.5	8.0	0	.03	1.3	13		
13	.05	.11	72	78	31	23	6.8	7.4	0	0	1.7	9.2		
14	.02	.28	73	856	27	21	5.5	5.6	.14	0	2.0	13		
15	.02	.24	69	969	24	21	5.2	4.5	1.1	0	3.9	21		
16	.02	.28	57	656	21	18	5.3	4.0	2.3	0	3.0	14		
17	0	.28	29	381	18	16	4.3	3.2	2.5	.11	2.7	9.1		
18	0	.22	16	121	16	13	20	2.7	2.6	2.2	2.5	6.6		
19	0	.42	9.7	55	14	12	22	2.5	2.1	2.6	2.0	5.8		
20	0	.89	10	43	13	10	172	2.2	1.6	2.1	1.7	6.4		
21	0	1.2	21	36	11	9.4	3450	2.1	1.1	2.1	4.5	4.4		
22	0	1.2	25	31	9.9	8.1	2540	1.9	.59	1.9	103	3.6		
23	0	.92	16	29	8.9	7.0	1310	1.8	.33	1.5	281	3.1		
24	0	1.1	9.6	27	8.0	6.2	687	1.6	.22	1.5	417	2.7		
25	0	.87	109	25	7.3	7.1	292	1.6	.12	2.3	192	2.7		
26	0	.73	230	24	8.3	7.6	92	1.4	.06	2.2	78	2.4		
27	0	.79	110	24	21	8.2	59	1.1	.01	3.5	30	2.2		
28	0	1.2	45	23	26	41	46	.90	0	7.8	21	1.8		
29	.20	7.0	26	20	---	91	40	.70	0	7.1	19	1.6		
30	17	4.9	20	20	---	60	35	.47	0	40	28	1.4		
31	6.9	---	14	177	---	46	---	.34	---	9.4	30	---		
TOTAL	32.03	29.29	1238.1	4368.1	2317.4	3306.6	9798.6	900.41	15.21	86.52	1267.1	285.4		
MEAN	1.03	.98	39.9	141	82.8	107	327	29.0	.51	2.79	40.9	9.51		
MAX	17	7.0	230	969	499	807	3450	388	2.6	40	417	29		
MIN	0	.09	1.5	9.1	7.3	6.2	4.3	.34	0	0	1.3	1.4		
CFSM	.02	.02	.78	2.75	1.61	2.09	6.37	.57	.009	.05	.80	.19		
IN.	.02	.02	.90	3.17	1.68	2.40	7.11	.65	.01	.06	.92	.21		
AC-FT	64	58	2460	8660	4600	6560	19440	1790	30	172	2510	566		
CAL YR 1976	TOTAL	18802.86	MEAN	51.4	MAX	965	MIN	0	CFSM	1.00	IN	13.63	AC-FT	37300
WTR YR 1977	TOTAL	23644.76	MEAN	64.8	MAX	3450	MIN	0	CFSM	1.26	IN	17.15	AC-FT	46900

08011500 BOGGY BAYOU NEAR PINE PRAIRIE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.72	2.82	3.21	3.18	6.95	3.56	3.96	4.57	2.47	2.20	3.15	3.66
2	2.64	2.63	3.05	3.08	5.88	3.33	4.07	8.91	2.41	2.18	3.47	3.55
3	2.50	2.52	2.86	3.30	7.46	4.43	4.63	6.90	2.37	2.15	3.25	3.43
4	2.44	2.46	2.74	3.70	9.82	10.72	7.52	4.76	2.34	2.14	3.05	3.28
5	2.43	2.43	2.66	3.86	8.81	11.52	8.86	4.32	2.30	2.13	2.93	3.18
6	2.39	2.42	3.16	3.67	7.92	10.51	5.57	4.04	2.27	2.12	2.86	3.14
7	2.37	2.39	5.49	3.45	5.90	8.93	4.28	3.85	2.25	2.10	2.77	3.09
8	2.34	2.36	4.92	3.29	4.61	6.40	3.78	3.70	2.23	2.09	2.75	3.04
9	2.33	2.37	3.94	5.10	4.24	4.82	3.50	3.59	2.21	2.17	2.88	3.09
10	2.31	2.36	3.35	7.71	4.02	4.34	3.33	3.50	2.19	2.37	2.79	3.96
11	2.30	2.38	3.08	6.86	3.89	4.07	3.20	3.41	2.17	2.36	2.72	3.77
12	2.29	2.39	3.35	5.20	3.96	3.88	3.10	3.34	2.15	2.33	2.72	3.38
13	2.27	2.38	5.00	4.79	3.98	3.75	3.02	3.31	2.14	2.30	2.80	3.21
14	2.25	2.44	5.03	11.70	3.86	3.66	2.94	3.23	2.38	2.29	2.84	3.37
15	2.25	2.43	4.95	12.06	3.72	3.64	2.92	3.17	2.73	2.29	3.01	3.71
16	2.25	2.44	4.69	10.75	3.62	3.55	2.93	3.14	3.00	2.29	2.98	3.44
17	2.24	2.44	3.88	8.85	3.50	3.44	2.87	3.09	3.03	2.34	2.93	3.23
18	2.23	2.42	3.39	5.82	3.40	3.34	3.48	3.06	3.05	2.99	2.92	3.12
19	2.22	2.47	3.12	4.65	3.32	3.27	3.68	3.02	2.98	3.04	2.84	3.08
20	2.21	2.57	3.15	4.33	3.25	3.20	5.49	2.99	2.89	2.96	2.79	3.12
21	2.19	2.63	3.60	4.14	3.19	3.15	14.19	2.98	2.77	2.94	3.00	3.00
22	2.18	2.61	3.75	3.99	3.13	3.09	14.20	2.95	2.63	2.90	5.33	2.95
23	2.17	2.58	3.39	3.90	3.07	3.03	12.82	2.92	2.53	2.82	7.92	2.91
24	2.15	2.61	3.11	3.84	3.03	2.98	10.88	2.90	2.47	2.80	9.17	2.88
25	2.15	2.57	5.15	3.78	2.99	3.03	7.94	2.88	2.40	2.93	6.89	2.87
26	2.13	2.55	7.35	3.74	3.04	3.06	5.39	2.83	2.35	2.89	5.08	2.86
27	2.11	2.56	5.68	3.74	3.61	3.09	4.73	2.77	2.31	3.01	3.94	2.83
28	2.10	2.62	4.38	3.68	3.79	4.19	4.42	2.73	2.27	3.26	3.64	2.78
29	2.22	3.03	3.81	3.59	---	5.38	4.25	2.66	2.24	3.22	3.56	2.74
30	3.44	2.92	3.57	3.56	---	4.77	4.12	2.59	2.22	4.24	3.84	2.71
31	3.03	---	3.33	6.65	---	4.45	---	2.53	---	3.33	3.95	---
MEAN	2.35	2.53	3.94	5.16	4.57	4.66	5.54	3.57	2.46	2.62	3.70	3.18
MAX	3.44	3.03	7.35	12.06	9.82	11.52	14.20	8.91	3.05	4.24	9.17	3.96
MIN	2.10	2.36	2.66	3.08	2.99	2.98	2.87	2.53	2.14	2.09	2.72	2.71

08012000 BAYOU NEZPIQUE NEAR BASILE, LA

LOCATION.--Lat 30°28'50", long 92°37'55", in NE¼ sec.1, T.7 S., R.3 W., Evangeline Parish, Hydrologic Unit 08080201, near left bank on U.S. Highway 190, 1,300 ft (400 m) downstream from New Orleans, Texas, and Mexico Railway Co. bridge, and 2.0 mi (3.2 km) west of Basile.

DRAINAGE AREA.--527 mi² (1,365 km²).

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 (1.033 m) above mean sea level. Prior to July 1947, nonrecording gage at same site and datum. Since Apr. 10, 1945, auxiliary nonrecording gage 7.5 mi (12.1 km) downstream from base gage. Datum of auxiliary gage (sta 08012020) is 1.03 ft (0.314 m) below mean sea level (Louisiana Geodetic Survey bench mark).

REMARKS.--Records good. Records of water temperatures for the water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--39 years, 804 ft³/s (22.77 m³/s), 20.72 in/yr (526 mm/yr), 582,500 acre-ft/yr (718 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s (1,010 m³/s) May 20, 1953, gage height, 34.39 ft (10.48 m); minimum discharge, 0.1 ft³/s (0.003 m³/s) June 7-31, 1943, June 22-29, 1948; minimum gage height, 1.00 ft (0.0305 m) June 28, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,900 ft³/s (309 m³/s) Apr. 24, gage height, 25.56 ft (7.791 m), from floodmark; minimum, 3.2 ft³/s (0.091 m³/s) Oct. 28, 29, gage height, 1.21 ft (0.369 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	479	325	279	80	942	315	377	2980	33	46	229	490
2	298	226	365	116	1070	231	300	2370	28	42	185	260
3	150	127	386	312	1170	189	242	1930	26	57	254	189
4	74	72	399	646	1970	820	428	1600	24	65	232	153
5	44	45	412	648	2570	1880	1380	1150	24	74	156	106
6	31	33	500	514	2520	2420	1840	900	28	102	113	72
7	24	28	700	362	2090	2330	1570	620	33	150	135	51
8	19	21	1300	256	1590	1980	1010	420	29	139	106	49
9	15	16	2000	277	1160	1560	584	300	29	123	76	121
10	13	12	2350	906	870	1280	345	240	24	118	52	496
11	11	12	2300	1360	462	1040	236	152	21	161	40	1100
12	10	22	1800	1060	268	707	207	124	47	176	36	1030
13	10	32	1400	814	228	424	206	106	185	213	35	598
14	9.1	91	1200	2590	236	239	185	89	352	265	47	332
15	8.7	188	1700	4110	218	186	153	80	834	299	69	299
16	8.5	263	1850	4580	181	165	201	68	1000	230	83	343
17	7.6	301	1800	4480	144	180	411	54	720	190	72	347
18	6.2	300	1000	3830	117	189	537	46	462	163	54	297
19	5.1	286	431	3380	99	165	558	44	243	137	44	190
20	4.6	245	349	2720	83	153	940	43	144	159	74	109
21	3.9	205	578	2040	70	126	3420	40	103	221	181	91
22	3.5	132	534	1550	59	103	5700	39	78	264	674	70
23	3.5	100	430	1230	51	97	8600	41	67	305	2320	52
24	3.7	108	1000	474	46	94	10600	41	62	271	3420	40
25	4.4	102	2100	226	41	89	10200	40	51	200	4230	29
26	4.1	106	2450	192	63	93	8630	34	47	142	3550	22
27	3.4	147	2390	192	205	108	6400	31	43	249	3030	17
28	3.2	203	2150	151	358	126	5200	30	43	406	2470	14
29	7.2	233	1700	135	---	342	4380	32	46	361	2210	11
30	179	247	971	127	---	494	3660	32	52	330	1860	9.1
31	391	---	270	343	---	486	---	36	---	292	1200	---
TOTAL	1834.7	4228	37094	39701	18881	18611	78500	13712	4878	5950	27237	6987.1
MEAN	59.2	141	1197	1281	674	600	2617	442	163	192	879	233
MAX	479	325	2450	4580	2570	2420	10600	2980	1000	406	4230	1100
MIN	3.2	12	270	80	41	89	153	30	21	42	35	9.1
AC-FT	3640	8390	73580	78750	37450	36910	155700	27200	9680	11800	54020	13860
CAL YR 1976	TOTAL	209033.7	MEAN	571	MAX	6260	MIN	3.2	AC-FT	414600		
WTR YR 1977	TOTAL	257613.8	MEAN	706	MAX	10600	MIN	3.2	AC-FT	511000		

08012000 BAYOU NEZPIQUE NEAR BASILE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.24	6.68	6.61	6.42	11.78	6.57	7.27	19.83	2.30	2.60	5.53	11.45
2	6.37	5.48	7.14	4.75	12.67	5.56	6.41	18.74	2.16	2.51	4.92	7.89
3	4.42	4.10	7.38	6.54	13.48	4.97	5.72	17.57	2.12	2.84	5.89	5.80
4	3.15	3.12	7.52	9.74	16.15	10.64	7.79	---	2.05	2.99	5.56	4.63
5	2.55	2.57	7.64	9.75	17.83	15.67	13.95	---	2.07	3.15	4.51	3.74
6	2.25	2.30	---	8.57	18.15	17.19	15.58	---	2.17	3.66	3.86	3.11
7	2.05	2.17	---	7.11	17.43	17.45	15.10	---	2.30	4.44	4.22	2.72
8	1.90	1.97	---	5.91	16.21	16.79	13.33	---	2.19	4.28	3.74	2.64
9	1.78	1.79	---	6.15	14.79	15.69	9.99	---	2.19	4.05	3.19	4.28
10	1.70	1.66	---	11.58	12.88	14.64	6.91	---	2.05	3.96	2.72	8.24
11	1.61	1.63	---	13.88	9.40	13.58	5.64	4.45	1.98	4.59	2.47	12.64
12	1.56	2.00	---	13.19	6.47	11.27	5.23	4.06	2.56	4.79	2.36	12.22
13	1.57	2.28	---	12.12	5.52	7.69	5.21	3.73	4.91	5.32	2.33	9.32
14	1.52	3.45	---	17.49	5.63	5.67	4.92	3.42	6.92	6.00	2.61	6.76
15	1.50	4.94	---	20.22	5.39	4.94	4.47	3.26	11.05	6.40	3.07	6.40
16	1.49	5.98	---	21.27	4.87	4.65	5.15	3.04	12.27	5.55	3.32	6.89
17	1.45	6.42	---	21.36	4.34	4.86	7.63	2.78	10.83	5.00	3.11	6.94
18	1.38	6.41	13.90	20.99	3.94	4.98	8.79	2.59	8.07	4.61	2.79	6.36
19	1.32	6.25	10.39	20.33	3.61	4.64	8.98	2.55	5.70	4.26	2.55	5.07
20	1.29	5.76	8.39	19.48	3.32	4.48	11.14	2.53	4.35	4.56	3.11	4.09
21	1.25	5.47	9.18	18.45	3.08	4.10	19.40	2.45	3.68	5.41	4.82	3.47
22	1.23	4.77	8.76	17.26	2.87	3.68	---	2.43	3.23	5.99	9.42	3.07
23	1.23	4.21	---	15.26	2.72	3.57	---	2.49	3.03	6.46	16.83	2.74
24	1.24	3.76	---	11.34	2.60	3.51	---	2.49	2.94	6.08	19.13	2.47
25	1.28	3.67	---	7.73	2.48	3.43	---	2.45	2.71	5.12	20.13	2.21
26	1.26	3.73	---	5.59	2.94	3.49	---	2.31	2.62	4.32	20.18	2.01
27	1.22	4.40	---	5.02	5.10	3.78	23.44	2.24	2.52	5.74	19.72	1.85
28	1.21	5.17	17.00	4.45	7.06	4.10	22.43	2.22	2.53	7.58	18.95	1.71
29	1.39	5.59	16.14	4.23	---	6.88	21.58	2.27	2.59	7.09	18.26	1.59
30	4.60	6.11	13.86	4.11	---	8.40	20.75	2.28	2.73	6.75	17.43	1.52
31	7.43	---	9.79	6.89	---	8.32	---	2.37	---	6.32	15.47	---
MEAN	2.34	4.13	---	11.52	8.31	7.91	---	---	3.96	4.92	8.14	5.13
MAX	8.24	6.68	---	21.36	18.15	17.45	---	19.83	12.27	7.58	20.18	12.64
MIN	1.21	1.63	---	4.11	2.48	3.43	4.47	2.22	1.98	2.51	2.33	1.52

08013000 CALCASIEU RIVER NEAR GLENMORA, LA

LOCATION.--Lat 30°59'45", long 92°40'25", in SE¼SE¼ sec.4, T.1 S., R.3 W., Louisiana meridian, Rapides Parish, Hydrologic Unit 08080203, on right bank on downstream side of bridge on State Highway 113, 1.0 mi (1.6 km) upstream from Prairie Branch, and 4.6 mi (7.4 km) northwest of Glenmora.

DRAINAGE AREA.--499 mi² (1,292 km²).

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

REVISED RECORDS.--WSP 1118: 1944-57.

GAGE.--Water-stage recorder. Datum of gage is 110.77 ft (33.763 m) above mean sea level (Louisiana Geodetic Survey bench mark). Prior to Nov. 19, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--34 years, 716 ft³/s (20.28 m³/s), 19.49 in/yr (495 mm/yr), 518,700 acre-ft/yr (640 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,900 ft³/s (1,700 m³/s) May 19, 1953, gage height, 21.55 ft (6.568 m); minimum, 15 ft³/s (0.42 m³/s) Sept. 27, 28, Oct. 7-9, 1954, Oct. 18, 1956; minimum gage height, 3.86 ft (1.176 m) Oct. 18, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,000 ft³/s (113 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 6	0245	*8160 231	*14.75 4.496	May 5	1415	4390 124	13.81 4.209
Mar. 16	0700	4420 125	13.82 4.212				

Minimum discharge, 29 ft³/s (0.82 m³/s) many days in October and August; minimum gage height, 4.54 ft (1.384 m) all or part of many days in October and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	47	163	574	482	164	894	223	50	38	30	77
2	139	59	216	364	525	154	1210	1360	49	37	29	74
3	113	57	214	309	952	399	1660	2530	48	36	29	65
4	81	53	163	367	1420	1700	2090	2690	46	35	29	58
5	64	49	122	458	1530	4270	2350	4150	45	34	30	52
6	52	44	101	523	1610	7880	2350	3860	44	35	29	48
7	44	41	100	572	1750	7510	2140	3050	43	33	30	44
8	40	38	112	610	1900	5890	1760	2290	42	33	29	43
9	37	37	206	831	2050	4030	1160	1550	41	32	29	51
10	36	36	299	1270	2060	3040	627	766	40	33	31	83
11	34	36	354	1510	1740	2380	375	378	39	34	29	123
12	33	39	378	1690	1120	1910	259	239	40	35	31	163
13	32	41	366	1820	684	1620	203	182	40	33	32	144
14	31	41	422	2220	582	1710	169	149	49	34	32	98
15	30	48	534	2450	594	2740	147	128	114	35	31	90
16	30	53	595	2440	611	4190	133	112	164	32	30	80
17	30	67	601	2370	586	3360	127	101	216	31	30	69
18	29	68	542	2110	517	2610	127	93	268	31	33	61
19	29	64	449	1920	428	1960	131	87	213	35	35	55
20	29	62	361	1830	341	1320	171	83	143	32	38	52
21	29	61	294	1620	279	660	512	80	116	32	36	53
22	29	65	262	1090	241	430	1050	76	96	42	48	52
23	29	82	282	633	215	330	1270	72	79	44	94	51
24	29	84	299	478	196	280	1440	69	66	39	180	49
25	29	81	321	449	181	260	1710	65	57	43	302	47
26	29	74	492	468	173	240	1830	63	51	37	252	46
27	29	66	686	487	171	230	1690	60	46	34	182	43
28	29	66	898	480	170	247	1130	58	43	34	115	41
29	33	71	1070	452	---	316	526	56	41	36	92	40
30	39	94	1090	417	---	496	279	54	39	36	79	39
31	40	---	894	453	---	668	---	52	---	33	73	---
TOTAL	1366	1724	12886	33265	23108	62994	29520	24726	2368	1088	2069	1991
MEAN	44.1	57.5	416	1073	825	2032	984	798	78.9	35.1	66.7	66.4
MAX	139	94	1090	2450	2060	7880	2350	4150	268	44	302	163
MIN	29	36	100	309	170	154	127	52	39	31	29	39
CFSM	.09	.12	.83	2.15	1.65	4.07	1.97	1.60	.16	.07	.13	.13
IN.	.10	.13	.96	2.48	1.72	4.70	2.20	1.84	.18	.08	.15	.15
AC-FT	2710	3420	25560	65980	45830	124900	58550	49040	4700	2160	4100	3950
CAL YR 1976 TOTAL	176561			MEAN 482	MAX 8760	MIN 29	CFSM .97	IN 13.16	AC-FT 350200			
WTR YR 1977 TOTAL	197105			MEAN 540	MAX 7880	MIN 29	CFSM 1.08	IN 14.69	AC-FT 391000			

08013000 CALCASIEU RIVER NEAR GLENMORA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.25	4.97	7.04	10.15	9.72	7.06	11.12	7.74	5.06	4.76	4.58	5.59
2	6.73	5.25	7.68	8.94	9.96	6.93	11.67	11.54	5.03	4.73	4.55	5.51
3	6.33	5.21	7.65	8.53	11.08	8.61	12.24	12.94	4.99	4.71	4.56	5.30
4	5.73	5.12	7.05	8.97	11.96	12.27	12.65	13.04	4.97	4.69	4.56	5.15
5	5.36	5.02	6.46	9.57	12.09	13.61	12.84	13.72	4.94	4.67	4.57	5.01
6	5.08	4.92	6.13	9.95	12.19	14.71	12.84	13.61	4.91	4.70	4.55	4.91
7	4.91	4.84	6.10	10.18	12.34	14.63	12.69	13.23	4.89	4.65	4.56	4.82
8	4.81	4.77	6.31	10.33	12.49	14.25	12.34	12.79	4.86	4.64	4.56	4.79
9	4.75	4.73	7.54	10.94	12.63	13.67	11.58	12.10	4.83	4.63	4.56	4.98
10	4.71	4.71	8.44	11.76	12.63	13.23	10.35	10.75	4.81	4.64	4.59	5.71
11	4.68	4.73	8.88	12.07	12.32	12.85	9.01	9.03	4.79	4.68	4.56	6.43
12	4.64	4.80	9.05	12.27	11.52	12.50	8.10	7.91	4.82	4.69	4.59	7.01
13	4.62	4.83	8.97	12.41	10.59	12.20	7.53	7.28	4.81	4.64	4.62	6.75
14	4.60	4.84	9.34	12.75	10.22	12.29	7.13	6.86	5.02	4.66	4.63	6.00
15	4.58	5.00	10.00	12.90	10.26	13.02	6.84	6.56	6.32	4.69	4.60	5.86
16	4.58	5.13	10.27	12.89	10.34	13.74	6.64	6.32	7.07	4.63	4.58	5.66
17	4.56	5.44	10.29	12.85	10.23	13.39	6.55	6.13	7.66	4.60	4.58	5.40
18	4.55	5.45	10.04	12.67	9.92	12.99	6.54	5.98	8.19	4.59	4.64	5.21
19	4.55	5.36	9.52	12.51	9.38	12.54	6.61	5.87	7.63	4.70	4.70	5.07
20	4.54	5.33	8.93	12.43	8.78	11.81	7.13	5.77	6.77	4.61	4.77	5.01
21	4.56	5.30	8.41	12.20	8.28	---	9.61	5.71	6.37	4.63	4.71	5.03
22	4.55	5.39	8.13	11.47	7.93	---	11.42	5.64	6.04	4.86	5.00	5.00
23	4.54	5.75	8.31	10.40	7.67	---	11.76	5.55	5.69	4.91	5.93	4.97
24	4.54	5.81	8.45	9.70	7.45	---	11.99	5.47	5.40	4.80	7.23	4.94
25	4.54	5.73	8.63	9.52	7.29	---	12.29	5.40	5.20	4.89	8.47	4.89
26	4.55	5.59	9.74	9.63	7.18	---	12.42	5.34	5.06	4.74	8.03	4.86
27	4.55	5.42	10.61	9.75	7.16	---	12.27	5.28	4.96	4.67	7.26	4.79
28	4.54	5.42	11.13	9.71	7.15	---	11.51	5.23	4.89	4.68	6.30	4.75
29	4.63	5.51	11.45	9.54	---	---	9.88	5.18	4.83	4.72	5.89	4.72
30	4.79	5.98	11.49	9.32	---	---	8.26	5.14	4.79	4.72	5.62	4.69
31	4.82	---	11.12	9.54	---	10.54	---	5.10	---	4.64	5.49	---
MEAN	4.88	5.21	8.81	10.83	10.03	---	10.13	8.01	5.52	4.70	5.22	5.29
MAX	6.73	5.98	11.49	12.90	12.63	14.71	12.84	13.72	8.19	4.91	8.47	7.01
MIN	4.54	4.71	6.10	8.53	7.15	6.93	6.54	5.10	4.79	4.59	4.55	4.69

08013500 CALCASIEU RIVER NEAR OBERLIN, LA

LOCATION.--Lat 30°38'25", long 92°48'50", in NW¼ 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 (4.8 km) northwest of Oberlin, and 15 mi (24 km) upstream from Whisky Chitto Creek.

DRAINAGE AREA.--753 mi² (1,950 km²).

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 (12.018 m) above mean sea level (Louisiana Geodetic Survey bench mark). Prior to February 1925 at datum about 2.5 ft (0.762 m) higher. September 1938 to Aug. 7, 1959, nonrecording gage at same site and present datum.

REMARKS.--Water-discharge record good. Paper mill at Elizabeth pumps about 11 ft³/s (0.3 m³/s) from wells which is later discharged into Mill Creek 20 mi (32 km) upstream from station. This discharge is continuous and fairly constant. Some small diversions from April to September for rice irrigation upstream from station.

AVERAGE DISCHARGE.--41 years, (1922-24, 1938-88) 1,141 ft³/s (32.31 m³/s), 20.58 in/yr (522 mm/yr), 826,700 acre-ft/yr (1.02 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,800 ft³/s (2,060 m³/s) May 19, 1953, gage height, 26.53 ft (8.086 m); minimum, 30 ft³/s (0.85 m³/s) Sept. 28, 29, Oct. 17-19, 1956; minimum gage height, 1.52 (0.463 m) Aug. 9-10, 11, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1886 reached a stage of between 22 and 23 ft (6.7 and 7.0 m), present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8,000 ft³/s (230 m³/s), no peak above base; maximum discharge, 7,100 ft³/s (201 m³/s) Mar. 9, gage height, 16.55 ft (5.044 m); minimum, 51 ft³/s (1.44 m³/s) Oct. 26, 27-28, 29; minimum gage height, 1.52 ft (0.463 m) Aug. 9-10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	61	82	163	911	1170	270	528	1340	116	88	62	168		
2	57	72	151	956	1240	259	896	1520	112	88	59	163		
3	79	68	166	914	1360	354	1070	1720	107	84	56	131		
4	111	71	201	831	1900	1550	1060	2050	104	80	56	121		
5	121	75	226	715	2450	3550	1210	2340	101	76	56	114		
6	109	75	265	646	3100	4060	1480	2560	98	74	56	106		
7	95	72	528	613	2720	4270	1750	2780	95	72	55	99		
8	83	70	488	615	1970	5060	1960	3450	91	70	55	97		
9	76	66	329	715	1640	6870	2050	3570	91	70	54	189		
10	71	66	256	1270	1620	6560	1970	3000	87	67	54	632		
11	66	66	257	1650	1720	5300	1720	2400	85	66	57	468		
12	64	71	350	1760	1830	4260	1280	1780	84	71	69	232		
13	62	74	758	1730	1830	3420	811	1130	87	72	91	187		
14	62	77	944	2850	1590	2830	530	643	98	73	88	360		
15	60	83	962	3740	1160	2350	408	444	144	65	122	473		
16	60	83	890	4220	834	1870	434	352	146	60	90	310		
17	59	79	771	4040	712	1720	331	299	140	59	72	218		
18	56	81	703	3260	674	2300	315	265	163	60	66	168		
19	54	90	667	2620	652	3260	288	238	193	60	59	137		
20	54	105	688	2320	617	3250	416	218	231	72	58	120		
21	53	120	764	2130	558	2700	1930	203	243	72	60	112		
22	52	118	657	1940	484	2150	3030	189	208	71	129	103		
23	52	111	536	1820	419	1600	2780	175	174	76	613	95		
24	52	114	448	1660	367	1060	2250	165	156	67	608	91		
25	53	119	546	1380	334	730	1780	158	139	70	766	87		
26	51	125	1080	1110	315	624	1500	150	125	76	658	84		
27	51	126	1150	896	307	608	1440	142	114	83	363	81		
28	51	131	953	753	291	546	1530	137	104	78	363	76		
29	60	166	803	696	---	502	1620	131	97	69	257	73		
30	81	197	792	679	---	498	1570	126	93	81	224	71		
31	101	---	836	836	---	480	---	120	---	67	189	---		
TOTAL	2117	2853	18328	50276	33864	74861	39937	33795	3826	2237	5565	5366		
MEAN	68.3	95.1	591	1622	1209	2415	1331	1090	128	72.2	180	179		
MAX	121	197	1150	4220	3100	6870	3030	3570	243	88	766	632		
MIN	51	66	151	613	291	259	288	120	84	59	54	71		
CFSM	.09	.13	.78	2.15	1.61	3.21	1.77	1.45	.17	.10	.24	.24		
IN.	.10	.14	.91	2.48	1.67	3.70	1.97	1.67	.19	.11	.27	.27		
AC-FT	4200	5660	36350	99720	67170	148500	79220	67030	7590	4440	11040	10640		
CAL YR 1976	TOTAL	254124.0	MEAN	694	MAX	7560	MIN	51	CFSM	.92	IN	12.55	AC-FT	504000
WTR YR 1977	TOTAL	273025.0	MEAN	748	MAX	6870	MIN	51	CFSM	.99	IN	13.49	AC-FT	541500

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.66	1.87	2.46	6.16	7.04	3.45	4.92	7.59	2.20	1.88	1.60	2.60
2	1.62	1.76	2.35	6.32	7.28	3.38	6.44	8.14	2.17	1.88	1.57	2.56
3	1.86	1.72	2.48	6.17	7.67	3.93	7.01	8.76	2.13	1.84	1.54	2.29
4	2.18	1.75	2.73	5.88	9.32	8.41	6.97	9.73	2.10	1.80	1.54	2.20
5	2.27	1.80	2.90	5.44	10.80	12.56	7.44	10.50	2.07	1.76	1.54	2.13
6	2.16	1.80	3.15	5.15	12.18	13.75	8.26	11.05	2.05	1.74	1.54	2.06
7	2.02	1.77	4.65	5.00	11.42	14.04	9.03	11.53	2.02	1.72	1.53	1.99
8	1.90	1.74	4.44	5.01	9.64	15.10	9.63	12.79	1.98	1.69	1.53	1.97
9	1.83	1.70	3.53	5.44	8.72	16.44	9.86	12.98	1.96	1.69	1.52	2.69
10	1.77	1.70	3.07	7.37	8.67	16.28	9.65	11.98	1.94	1.66	1.52	5.11
11	1.72	1.69	3.07	8.54	8.94	15.36	8.95	10.66	1.92	1.65	1.55	4.36
12	1.69	1.73	3.64	8.90	9.25	14.03	7.66	8.95	1.91	1.70	1.68	3.07
13	1.67	1.77	5.62	8.80	9.26	12.74	6.14	6.90	1.94	1.72	1.91	2.77
14	1.66	1.80	6.28	11.65	8.57	11.66	4.93	5.19	2.05	1.73	1.88	3.80
15	1.64	1.85	6.33	13.26	7.29	10.72	4.28	4.26	2.44	1.64	2.21	4.42
16	1.64	1.84	6.09	13.97	6.22	9.63	4.42	3.78	2.45	1.58	1.90	3.54
17	1.63	1.80	5.66	13.72	5.76	9.20	3.83	3.47	2.41	1.57	1.72	2.97
18	1.60	1.81	5.39	12.47	5.60	10.55	3.73	3.27	2.59	1.58	1.65	2.63
19	1.58	1.89	5.24	11.18	5.51	12.47	3.56	3.10	2.80	1.58	1.57	2.38
20	1.57	2.03	5.33	10.43	5.35	12.45	3.92	2.97	3.05	1.71	1.56	2.24
21	1.56	2.17	5.63	9.93	5.07	11.37	9.24	2.87	3.14	1.72	1.58	2.17
22	1.55	2.14	5.20	9.43	4.70	10.11	12.04	2.77	2.90	1.70	2.19	2.09
23	1.55	2.07	4.63	9.05	4.34	8.60	11.53	2.68	2.65	1.76	5.05	2.02
24	1.55	2.08	4.17	8.58	4.05	6.96	10.24	2.61	2.50	1.66	5.12	1.98
25	1.56	2.13	4.63	7.73	3.85	5.83	8.93	2.55	2.36	1.69	5.66	1.94
26	1.54	2.17	6.73	6.83	3.73	5.38	8.10	2.48	2.23	1.76	5.23	1.91
27	1.54	2.17	6.96	6.11	3.68	5.31	7.92	2.43	2.13	1.83	3.85	1.88
28	1.53	2.22	6.31	5.59	3.58	5.01	8.19	2.38	3.04	1.78	3.85	1.84
29	1.63	2.51	5.78	5.36	---	4.79	8.47	2.34	1.97	1.68	3.51	1.81
30	1.86	2.73	5.74	5.29	---	4.77	8.30	2.29	1.93	1.81	3.01	1.78
31	2.06	---	5.90	5.90	---	4.68	---	2.24	---	1.66	2.76	---
MEAN	1.73	1.94	4.71	8.09	7.05	9.64	7.45	5.98	2.30	1.72	2.42	2.57
MAX	2.27	2.73	6.96	13.97	12.18	16.44	12.04	12.98	3.14	1.88	5.66	5.11
MIN	1.53	1.69	2.35	5.00	3.58	3.38	3.56	2.24	1.91	1.57	1.52	1.78

CALCASIEU RIVER BASIN

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1949, 1966-70, 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to June 1977.

pH: October 1975 to June 1977.

WATER TEMPERATURES: October 1975 to June 1977.

DISSOLVED OXYGEN: October 1975 to June 1977.

INSTRUMENTATION.--Water quality monitor since October 1975.

REMARKS.--Water quality monitor is temporarily out of operation due to bridge construction.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM .7UM-MF (COL./100 ML)
OCT 29...	1245	56	205	7.6	12.0	70	9	9.9	2.0	360
NOV 17...	0930	79	215	7.5	9.5	80	8	10.2	2.4	B2000
DEC 22...	1400	646	75	6.7	10.0	120	20	10.5	4.0	B45
JAN 11...	1030	1640	50	6.3	6.5	100	25	10.4	2.6	2200
FEB 09...	1430	1630	38	6.0	8.0	50	20	10.8	--	B75
MAR 23...	1020	1650	47	6.0	16.5	80	15	8.0	3.9	B60
APR 18...	1400	316	149	6.2	22.0	80	15	7.2	1.4	B55
MAY 18...	1145	265	117	6.8	23.5	50	10	6.8	1.5	B25
JUN 07...	1445	95	218	7.3	29.0	90	15	7.1	1.0	B10
JUL 20...	1030	64	309	7.5	27.0	100	15	6.6	--	110
AUG 17...	1330	72	167	7.4	30.0	70	10	7.2	3.5	80
SEP 07...	1315	104	164	7.3	28.5	100	15	7.6	5.4	--

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
OCT 29...	620	--	26	0	7.0	2.1	38	74	3.2
NOV 17...	60	--	24	0	7.6	1.1	31	72	2.8
DEC 22...	250	--	14	3	3.2	1.5	7.9	51	.9
JAN 11...	3000	--	11	2	3.1	.7	5.0	47	.7
FEB 09...	--	B9	9	3	2.5	.7	3.4	42	.5
MAR 23...	--	6800	9	1	2.6	6.0	5.1	51	.4
APR 18...	--	1800	17	0	5.8	.6	22	72	2.3
MAY 18...	--	84	16	0	4.9	1.0	16	65	1.7
JUN 07...	--	B7	21	0	6.5	1.2	33	75	3.1
JUL 20...	--	B39000	27	0	8.5	1.4	55	80	4.6
AUG 17...	--	220	21	0	6.0	1.5	24	69	2.3
SEP 07...	--	310	20	0	6.4	1.0	24	70	2.3

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)
OCT 29...	2.5	70	0	57	2.8	30	17	.1	28
NOV 17...	2.6	63	0	52	3.2	35	8.8	.1	25
DEC 22...	2.0	14	0	11	4.5	14	3.6	.1	10
JAN 11...	1.4	11	0	9	8.8	7.3	4.6	.2	6.9
FEB 09...	.8	7	0	6	11	5.7	3.9	.0	7.6
MAR 23...	1.3	10	0	8	16	5.3	4.3	.0	9.3
APR 18...	1.6	35	0	29	35	23	7.0	.0	18
MAY 18...	1.6	28	0	23	7.1	18	6.3	.0	20
JUN 07...	2.2	63	0	52	5.1	40	7.9	.0	25
JUL 20...	2.7	83	0	68	4.2	60	9.1	.0	27
AUG 17...	2.2	54	0	44	3.4	23	9.9	.0	19
SEP 07...	2.1	52	0	43	4.2	24	7.3	.1	20

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT 29...	166	159	.23	25.1	.10	--	--	--	.06
NOV 17...	141	143	.19	30.1	.04	.70	.74	3.3	.11
DEC 22...	--	49	.07	85.5	.03	--	--	--	.04
JAN 11...	62	35	.08	275	.07	.84	.91	4.0	.04
FEB 09...	45	28	.06	198	.01	--	--	--	.03
MAR 23...	50	33	.07	223	.01	--	--	--	.04
APR 18...	102	96	.14	87.0	.21	.68	.89	3.9	.08
MAY 18...	87	82	.12	62.2	.19	1.0	1.2	5.3	.04
JUN 07...	161	147	.22	41.3	.15	--	--	--	.07
JUL 20...	222	205	.30	38.4	.18	.42	.60	2.7	.08
AUG 17...	113	112	.15	22.0	.09	--	--	--	.08
SEP 07...	111	110	.15	31.2	.16	--	--	--	.08

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)
NOV 17...	1	--	0	--	--	0	5	--	190	--	2	--
JAN 11...	0	--	2	--	--	0	10	--	160	--	3	--
APR 18...	0	0	0	<10	<10	0	6	<10	130	80	0	20
JUL 20...	2	--	0	--	--	0	8	--	150	--	5	--

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)
NOV 17...	40	--	.1	--	10	--	9.6	--
JAN 11...	100	--	.2	--	10	--	12	--
APR 18...	170	<10	.2	.0	10	<10	7.1	.00
JUL 20...	110	--	.0	--	10	--	5.2	--

DATE	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)
NOV 17...	4	.0	0	.00	.0	.00	.0	.0	0	.00	.0	.00
APR 18...	4	.0	0	.00	.0	.00	.0	.0	0	.00	.0	.00

DATE	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)
NOV 17...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
APR 18...	.0	.00	.0	.03	.0	.00	.0	.00	.0	.00	.0	.00

DATE	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)
NOV 17...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
APR 18...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 17...	.00	.0	.00	.0	0	0	.00	.0	.18	.13	.00
APR 18...	.00	.0	.00	.0	0	0	.00	.0	.00	.00	.00

MISCELLANEOUS OBSERVATIONS

DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DATE	TIME	AIR TEMPER- ATURE (DEG C)	WATER TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV. 9, 1976...	1040	22.0	12.0	10.6	JUNE 6.....	1200	38.5	30.0	7.1
DEC. 16.....	1025	15.5	11.0	--	JULY 20.....	1055	33.0	27.5	6.8
FEB. 1, 1977...	0910	6.5	5.0	11.6	AUG. 30.....	1245	34.5	28.5	6.1
MAR. 16.....	1155	24.5	17.0	8.8	SEPT. 30.....	1020	35.5	26.5	7.1

CALCASIEU RIVER BASIN

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	170	144	309	269	---	---	47	37	---	---	119	108
2	164	151	262	253	---	---	42	32	---	---	119	112
3	164	141	248	231	---	---	---	---	38	28	314	119
4	140	123	233	213	---	---	---	---	39	28	149	62
5	124	121	232	194	---	---	---	---	30	22	61	41
6	124	110	232	217	---	---	71	46	24	19	41	35
7	123	116	220	211	---	---	66	52	23	20	38	26
8	138	123	226	204	---	---	66	61	30	21	25	19
9	154	139	232	208	---	---	104	60	30	26	21	16
10	167	150	228	217	---	---	99	53	39	20	22	18
11	176	161	239	233	---	---	50	42	39	30	26	20
12	189	171	276	249	---	---	47	36	36	32	31	26
13	201	191	287	273	---	---	53	32	40	34	45	31
14	208	200	291	268	---	---	55	29	43	39	41	31
15	215	201	---	---	---	---	39	29	47	42	38	31
16	219	214	---	---	---	---	32	27	52	47	46	27
17	223	218	---	---	---	---	30	24	56	50	46	41
18	225	221	---	---	---	---	26	21	59	51	42	34
19	223	217	---	---	---	---	38	24	63	58	37	25
20	221	210	---	---	84	59	29	25	67	61	39	34
21	221	132	---	---	89	79	33	28	72	67	43	37
22	193	148	---	---	76	64	34	30	77	68	45	39
23	209	191	---	---	68	60	41	33	86	79	52	44
24	207	202	---	---	75	63	43	37	95	83	61	50
25	206	204	---	---	127	68	55	42	104	91	75	57
26	208	204	---	---	102	77	67	58	109	101	95	72
27	210	200	---	---	73	54	70	65	112	102	103	91
28	209	200	---	---	59	50	---	---	113	105	104	93
29	225	193	---	---	53	44	---	---	---	---	104	81
30	356	210	---	---	58	31	---	---	---	---	114	106
31	365	332	---	---	42	30	---	---	---	---	105	84

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	128	77	120	40	195	177						
2	164	64	65	46	212	187						
3	66	58	60	55	216	204						
4	60	52	58	42	217	200						
5	59	51	44	27	241	211						
6	58	39	30	20	245	228						
7	43	31	26	20	238	223						
8	34	29	25	20	237	216						
9	30	29	27	22	230	218						
10	33	29	32	25	237	217						
11	40	33	36	29	247	224						
12	49	38	45	35	278	234						
13	65	48	53	37	235	224						
14	84	57	73	49	244	211						
15	242	79	88	69	207	177						
16	260	104	104	86	---	---						
17	103	91	114	95	---	---						
18	214	94	125	107	---	---						
19	196	116	129	114	---	---						
20	142	92	131	119	---	---						
21	100	55	131	122	---	---						
22	43	36	136	121	---	---						
23	43	39	143	125	---	---						
24	45	35	151	131	---	---						
25	37	28	157	135	---	---						
26	36	32	161	151	---	---						
27	36	30	170	154	---	---						
28	34	29	178	162	---	---						
29	36	31	188	171	---	---						
30	43	33	194	177	---	---						
31	---	---	199	179	---	---						

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.2	6.9	7.2	7.1	---	---	5.8	5.8	---	---	6.5	6.5
2	7.2	6.9	7.2	7.0	---	---	5.8	5.8	---	---	6.6	6.5
3	7.4	7.0	7.3	7.1	---	---	---	---	6.0	5.8	7.0	6.6
4	7.3	7.0	7.3	7.0	---	---	---	---	5.9	5.8	6.5	6.0
5	7.2	7.0	7.4	7.1	---	---	---	---	5.9	5.7	5.9	5.7
6	7.2	6.9	7.4	7.1	---	---	6.1	6.1	5.7	5.6	5.7	5.5
7	7.2	6.9	7.4	7.2	---	---	6.2	6.1	5.6	5.4	5.6	5.4
8	7.1	6.9	7.4	7.2	---	---	6.2	6.1	5.6	5.5	5.4	5.1
9	7.2	6.9	7.4	7.2	---	---	6.4	6.1	5.6	5.6	5.1	5.0
10	7.2	7.0	7.3	7.1	---	---	6.3	6.1	5.6	5.6	5.1	5.0
11	7.3	7.0	7.2	7.1	---	---	6.1	5.9	5.6	5.6	5.2	5.1
12	7.3	7.1	7.2	7.1	---	---	5.9	5.6	5.6	5.6	5.4	5.2
13	7.3	7.1	7.2	7.1	---	---	5.8	5.6	5.7	5.6	5.7	5.4
14	7.4	7.1	7.2	7.1	---	---	5.9	5.5	5.7	5.7	5.6	5.4
15	7.3	7.1	---	---	---	---	5.6	5.5	5.8	5.7	5.5	5.4
16	7.2	7.1	---	---	---	---	5.7	5.5	5.9	5.8	5.5	5.5
17	7.4	7.2	---	---	---	---	5.5	5.4	6.0	5.9	5.6	5.5
18	7.4	7.1	---	---	---	---	5.4	5.3	6.1	6.0	5.8	5.3
19	7.3	7.1	---	---	---	---	5.4	5.4	6.1	6.1	5.3	5.2
20	7.5	7.2	---	---	6.2	6.0	5.5	5.4	6.2	6.1	5.4	5.3
21	7.4	7.2	---	---	6.3	6.2	5.6	5.5	6.2	6.1	5.5	5.4
22	7.5	7.2	---	---	6.2	6.1	5.7	5.6	6.2	6.2	5.6	5.5
23	7.5	7.3	---	---	6.1	6.0	5.7	5.6	6.3	6.2	5.7	5.6
24	7.4	7.2	---	---	6.2	6.1	5.8	5.6	6.3	6.2	5.9	5.7
25	7.4	7.2	---	---	6.5	6.2	5.9	5.7	6.4	6.3	6.0	5.8
26	7.5	7.2	---	---	6.3	6.2	6.1	6.0	6.4	6.4	6.2	6.0
27	7.5	7.2	---	---	6.2	6.0	6.1	6.0	6.5	6.4	6.2	6.2
28	7.4	7.2	---	---	6.0	5.9	---	---	6.5	6.5	6.2	6.2
29	7.3	7.0	---	---	6.0	5.9	---	---	---	---	6.2	6.1
30	7.4	7.2	---	---	5.9	5.8	---	---	---	---	6.2	6.2
31	7.3	7.2	---	---	5.8	5.7	---	---	---	---	6.2	6.2

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.4	6.1	6.3	5.8	6.8	6.7						
2	6.5	6.0	6.0	5.7	6.8	6.7						
3	6.0	5.8	6.0	6.0	6.9	6.8						
4	5.9	5.8	6.0	5.8	6.9	6.8						
5	5.9	5.8	5.8	5.5	7.0	6.8						
6	5.9	5.7	5.5	5.4	7.0	6.9						
7	5.7	5.5	5.5	5.3	7.0	6.8						
8	5.5	5.5	5.3	5.2	7.0	6.8						
9	5.5	5.5	5.7	5.3	7.0	6.8						
10	5.6	5.5	5.5	5.4	7.0	6.8						
11	5.7	5.6	5.6	5.5	7.0	6.9						
12	5.9	5.8	7.6	5.5	7.0	6.8						
13	6.0	5.9	5.8	5.6	7.0	6.9						
14	6.1	6.0	6.0	5.7	7.0	6.9						
15	6.6	6.1	6.1	5.9	6.9	6.8						
16	6.7	6.2	6.2	6.1	---	---						
17	6.2	6.2	6.3	6.2	---	---						
18	6.5	6.2	6.4	6.3	---	---						
19	6.5	6.3	6.4	6.3	---	---						
20	6.4	6.2	6.4	6.4	---	---						
21	6.2	5.8	6.5	6.4	---	---						
22	5.7	5.6	6.6	6.4	---	---						
23	5.7	5.7	6.6	6.5	---	---						
24	5.7	5.7	6.6	6.5	---	---						
25	5.7	5.6	6.7	6.6	---	---						
26	5.7	5.7	6.7	6.6	---	---						
27	5.8	5.7	6.7	6.6	---	---						
28	5.7	5.7	6.8	6.6	---	---						
29	5.7	5.7	6.8	6.7	---	---						
30	5.8	5.7	6.8	6.7	---	---						
31	---	---	6.8	6.7	---	---						

CALCASIEU RIVER BASIN

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	19.5	15.5	12.5	---	---	8.5	7.5	---	---	15.0	12.5
2	23.5	19.5	15.5	12.5	---	---	7.5	6.5	---	---	13.5	13.0
3	24.0	20.5	15.5	12.0	---	---	---	---	7.5	6.5	15.0	13.5
4	23.5	20.5	15.0	13.0	---	---	---	---	9.0	7.5	15.5	14.5
5	22.5	21.5	14.5	12.0	---	---	---	---	9.0	8.5	15.0	13.5
6	22.5	20.0	14.5	11.0	---	---	8.0	7.5	9.0	8.0	13.5	12.5
7	21.0	18.0	15.5	11.5	---	---	8.5	7.5	8.5	8.0	12.5	12.0
8	19.0	16.5	14.5	11.5	---	---	8.0	7.5	8.0	7.5	13.0	12.0
9	19.0	15.5	14.5	10.5	---	---	9.0	8.0	8.5	7.5	13.0	12.5
10	19.5	15.5	15.0	12.5	---	---	8.0	7.0	8.5	7.5	14.0	13.0
11	20.0	16.0	16.5	14.0	---	---	7.0	6.0	9.5	8.5	15.5	14.0
12	20.0	16.5	14.5	12.0	---	---	6.0	6.0	10.5	9.5	15.5	15.0
13	20.0	17.0	11.5	10.0	---	---	6.5	6.0	11.5	10.0	16.0	15.0
14	20.5	17.5	10.0	9.5	---	---	8.5	6.5	12.0	11.0	16.0	15.5
15	20.0	17.5	---	---	---	---	9.0	8.5	11.5	10.5	17.0	16.0
16	19.5	18.0	---	---	---	---	8.5	7.5	11.0	10.0	17.5	17.0
17	19.0	16.5	---	---	---	---	7.5	6.0	11.5	10.0	18.0	17.0
18	18.0	15.0	---	---	---	---	6.0	5.0	12.0	10.5	18.5	18.0
19	17.5	14.5	---	---	---	---	5.0	4.0	12.5	11.5	19.5	18.5
20	17.0	14.5	---	---	12.0	11.0	4.5	4.0	13.0	11.5	19.0	18.5
21	16.0	12.5	---	---	10.5	9.5	5.0	4.0	13.5	11.5	19.0	18.5
22	16.5	13.0	---	---	9.5	9.0	5.0	4.5	14.0	12.0	18.0	17.0
23	18.0	14.5	---	---	9.5	8.0	6.0	5.0	15.0	13.0	17.5	16.0
24	17.5	16.5	---	---	9.0	7.5	6.5	6.0	14.5	12.5	16.5	15.5
25	19.0	17.0	---	---	10.5	9.0	7.0	5.5	16.0	13.5	16.0	15.5
26	18.5	15.5	---	---	11.0	10.0	7.0	6.0	16.0	15.0	17.0	15.5
27	16.0	14.5	---	---	10.5	9.5	9.0	7.0	15.5	13.5	18.0	16.5
28	14.0	13.5	---	---	10.5	9.5	---	---	15.0	12.5	19.5	17.0
29	13.5	13.0	---	---	10.0	9.0	---	---	---	---	18.5	17.5
30	16.0	13.0	---	---	10.5	9.0	---	---	---	---	20.0	18.5
31	15.5	12.5	---	---	10.0	9.0	---	---	---	---	19.5	17.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.5	19.5	18.5	27.5	26.0						
2	18.5	18.5	21.5	19.5	28.5	25.0						
3	19.5	18.5	21.5	20.5	29.5	26.0						
4	20.0	19.0	22.0	21.0	29.5	26.5						
5	19.5	18.0	22.0	21.5	29.5	26.5						
6	18.5	17.0	22.5	21.5	30.0	27.0						
7	18.0	17.0	22.5	22.0	29.5	27.0						
8	18.0	16.5	23.0	22.0	28.5	25.0						
9	18.0	17.0	23.0	22.5	28.5	25.0						
10	18.5	17.5	22.5	22.0	28.5	26.0						
11	19.0	17.5	22.0	21.0	30.0	26.0						
12	19.5	18.0	22.5	21.0	29.0	27.0						
13	20.0	18.0	23.0	21.0	27.0	26.0						
14	20.5	18.5	23.5	21.5	25.5	24.5						
15	20.5	19.0	24.0	21.5	25.5	24.0						
16	20.5	19.0	24.5	22.0	---	---						
17	21.0	19.5	24.5	22.0	---	---						
18	22.0	19.5	24.5	22.5	---	---						
19	22.5	21.0	25.5	22.5	---	---						
20	21.5	20.0	25.0	23.0	---	---						
21	20.0	19.5	24.5	23.0	---	---						
22	19.5	19.0	25.0	23.0	---	---						
23	19.5	19.0	26.0	23.0	---	---						
24	19.5	19.0	26.5	23.5	---	---						
25	19.5	18.5	26.0	24.0	---	---						
26	19.5	18.0	26.5	24.0	---	---						
27	19.0	17.5	27.5	24.0	---	---						
28	19.5	17.5	27.5	24.5	---	---						
29	19.0	17.5	27.5	25.0	---	---						
30	19.5	18.0	29.0	25.5	---	---						
31	---	---	29.0	25.5	---	---						

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.6	8.1	9.8	8.8	---	---	11.1	10.6	---	---	9.9	9.2
2	9.4	8.2	9.6	8.7	---	---	11.7	11.1	---	---	9.8	9.3
3	9.8	8.2	9.6	8.8	---	---	---	---	8.9	8.6	9.6	8.1
4	9.6	8.2	9.7	8.7	---	---	---	---	8.7	7.9	8.6	7.9
5	9.2	8.3	9.6	8.7	---	---	---	---	8.1	7.9	8.8	7.8
6	9.3	8.2	9.6	8.6	---	---	11.9	11.4	8.3	8.1	8.9	8.6
7	9.3	8.3	9.3	8.3	---	---	11.5	11.2	8.7	8.4	10.1	8.7
8	9.1	8.4	9.1	8.2	---	---	11.3	11.0	9.0	8.8	10.6	10.0
9	9.8	8.9	8.9	7.9	---	---	11.0	10.0	9.3	9.1	10.3	9.8
10	9.7	8.9	8.4	7.4	---	---	9.9	9.6	9.4	9.3	10.0	9.4
11	9.9	8.8	7.7	7.3	---	---	10.4	9.8	9.6	9.2	9.4	8.7
12	9.9	8.8	8.1	7.3	---	---	10.5	10.1	9.4	8.9	8.7	8.3
13	9.5	8.7	8.7	7.9	---	---	10.4	10.2	9.1	8.8	8.4	8.1
14	9.7	8.6	9.0	8.6	---	---	10.0	8.8	9.1	8.9	8.3	8.1
15	9.7	8.5	---	---	---	---	8.6	8.3	9.2	9.0	8.2	7.7
16	8.9	8.3	---	---	---	---	8.3	8.1	9.6	9.3	7.6	7.4
17	9.5	8.4	---	---	---	---	8.8	8.1	9.8	9.7	7.5	7.1
18	9.7	8.8	---	---	---	---	9.0	8.4	10.0	9.7	7.3	6.8
19	9.8	8.8	---	---	---	---	9.5	9.1	9.9	9.7	6.9	6.6
20	10.2	9.1	---	---	10.4	10.0	9.8	9.7	9.9	9.7	6.9	6.5
21	10.5	9.3	---	---	10.4	10.0	10.0	9.9	10.0	9.8	7.2	6.9
22	10.7	9.6	---	---	11.0	10.4	10.0	9.9	10.1	9.7	7.7	7.2
23	10.4	9.1	---	---	11.2	10.8	10.0	9.7	10.0	9.3	7.9	7.5
24	9.7	8.8	---	---	11.4	11.0	9.9	9.5	9.8	9.5	8.3	7.8
25	9.6	8.6	---	---	11.2	10.1	9.7	9.5	9.7	9.0	8.7	8.3
26	10.1	8.6	---	---	10.0	9.4	9.7	9.4	9.2	8.9	9.0	8.7
27	10.5	8.9	---	---	10.2	9.5	9.7	9.4	9.4	9.0	9.1	8.6
28	10.8	9.4	---	---	10.5	10.2	---	---	9.8	9.3	8.7	7.9
29	10.4	9.5	---	---	10.7	10.4	---	---	---	---	8.4	7.9
30	10.0	9.2	---	---	10.6	10.3	---	---	---	---	8.3	7.9
31	9.8	9.2	---	---	10.7	10.2	---	---	---	---	8.3	7.9
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	8.7	7.7	6.4	5.7						
2	8.1	7.4	7.7	6.6	6.0	5.1						
3	7.6	7.2	7.1	6.7	6.2	5.2						
4	7.6	7.2	6.9	6.7	5.9	5.3						
5	7.6	7.3	7.0	6.8	6.9	5.3						
6	7.8	7.4	7.0	6.8	7.3	6.3						
7	8.1	7.7	7.0	6.5	8.5	6.5						
8	8.3	8.0	6.5	5.7	8.8	7.7						
9	8.3	7.9	5.9	3.7	8.8	7.9						
10	8.0	7.7	7.0	5.4	8.9	7.6						
11	7.9	7.5	7.2	6.8	8.6	7.4						
12	7.5	7.0	7.4	6.4	7.8	6.9						
13	7.1	6.5	7.1	6.4	7.2	6.4						
14	6.4	5.9	6.9	6.4	6.7	6.2						
15	6.2	5.7	6.9	6.5	6.1	5.6						
16	5.7	5.2	7.0	6.6	---	---						
17	5.5	5.2	7.0	6.5	---	---						
18	7.2	4.9	6.9	6.5	---	---						
19	7.1	6.9	7.5	7.1	---	---						
20	7.9	7.0	7.5	7.0	---	---						
21	7.8	7.2	7.5	7.1	---	---						
22	7.7	7.3	7.8	7.4	---	---						
23	7.5	7.2	7.7	7.0	---	---						
24	8.0	7.6	7.3	6.7	---	---						
25	8.3	7.9	7.2	6.6	---	---						
26	8.7	8.2	7.7	7.0	---	---						
27	8.9	8.5	8.0	7.0	---	---						
28	9.0	8.6	7.7	6.7	---	---						
29	9.1	8.7	7.3	6.5	---	---						
30	9.0	8.4	6.8	5.9	---	---						
31	---	---	6.4	5.8	---	---						

08014500 WHISKY CHITTO CREEK NEAR OBERLIN, LA

LOCATION.--Lat 30°41'55", long 92°53'35", in NE¼ 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 (1.6 km) downstream from Tenmile Creek, 8.0 mi (12.9 km) upstream from Bundick Creek, and 10 mi (16 km) northwest of Oberlin.

DRAINAGE AREA.--510 mi² (1,321 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 46.24 ft (14.094 m) above mean sea level (Louisiana Geodetic Survey bench mark). Prior to Oct. 19, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--38 years, 803 ft³/s (22.74 m³/s), 21.38 in/yr (543 mm/yr), 581,800 acre-ft/yr (717 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 144,000 ft³/s (4,080 m³/s) May 18, 1953, (gage height, 32.8 ft or 10.00 m, from floodmark), from rating curve extended above 35,000 ft³/s (990 m³/s) on basis of slope-area measurement of peak flow; minimum, 88 ft³/s (2.49 m³/s) Oct. 19, 20, 1956; minimum gage height, 2.48 ft (0.756 m) Aug. 17, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1886 reach a stage of 25.7 ft (7.83 m), from floodmarks preserved by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 15	0045	3100 87.8	11.79 3.594	Mar. 7	1130	*6840 194	*16.65 5.075
Feb. 7	0345	3260 92.3	12.10 3.688				

Minimum discharge, 152 ft³/s (4.30 m³/s) Aug. 8, 10, 11, 12, gage height, 2.77 ft (0.844 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	294	383	437	969	352	1260	481	218	163	185	238
2	208	311	364	402	1200	346	934	1460	210	163	169	242
3	194	234	280	399	1230	661	1000	2000	204	167	162	224
4	183	205	248	573	2360	3030	935	2600	198	162	156	205
5	177	190	233	879	3030	4390	857	2400	194	160	155	188
6	173	182	238	840	3190	5120	828	2000	190	163	154	178
7	171	178	320	642	3160	6670	689	1400	185	161	154	171
8	169	175	339	559	2260	5630	566	960	181	165	159	171
9	172	174	486	815	1220	3640	495	800	179	168	160	204
10	171	174	438	1680	799	1790	452	710	177	170	155	651
11	169	178	330	1770	689	1160	421	650	177	168	155	1010
12	168	178	343	1810	640	1360	395	580	175	169	165	720
13	168	182	683	1530	653	2230	376	540	182	173	169	485
14	167	203	792	2470	732	2410	360	500	193	183	184	373
15	165	262	889	2980	685	2510	355	465	233	176	190	310
16	165	264	685	2590	586	2210	364	435	289	170	185	309
17	165	310	561	2310	524	1200	353	410	375	165	186	294
18	163	259	481	1620	483	870	371	390	457	163	197	264
19	164	232	405	1210	458	750	404	365	349	174	181	242
20	171	222	379	772	440	675	442	345	263	176	172	231
21	167	218	414	632	426	625	1290	330	230	197	195	223
22	164	276	477	575	411	596	2090	315	209	183	241	236
23	162	309	494	540	396	559	2190	300	198	178	322	253
24	163	266	401	523	381	520	2060	285	190	183	423	224
25	164	231	408	606	376	516	1340	275	183	177	463	207
26	162	215	798	763	381	637	743	265	179	171	368	198
27	162	206	1120	666	372	716	591	252	174	169	288	191
28	162	211	1230	566	359	679	511	245	173	174	250	186
29	177	240	1070	518	---	1070	458	237	168	181	250	182
30	206	285	645	494	---	1340	421	230	166	230	292	178
31	209	---	507	566	---	1370	---	222	---	220	260	---
TOTAL	5371	6864	16441	32737	28410	55632	23551	22447	6499	5422	6745	8788
MEAN	173	229	530	1056	1015	1795	785	724	217	175	218	293
MAX	209	311	1230	2980	3190	6670	2190	2600	457	230	463	1010
MIN	162	174	233	399	359	346	353	222	166	160	154	171
CFSM	.34	.45	1.04	2.07	1.99	3.52	1.54	1.42	.43	.34	.43	.57
IN.	.39	.50	1.20	2.39	2.07	4.06	1.72	1.64	.47	.40	.49	.64
AC-FT	10650	13610	32610	64930	56350	110300	46710	44520	12690	10750	13380	17430

CAL YR 1976	TOTAL	195234	MEAN	533	MAX	3390	MIN	162	CFSM	1.05	IN	14.24	AC-FT	387200
WTR YR 1977	TOTAL	218907	MEAN	600	MAX	6670	MIN	154	CFSM	1.18	IN	15.97	AC-FT	434200

NOTE.--No gage-height record May 3 to June 6.

08014500 WHISKY CHITTO CREEK NEAR OBERLIN, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.98	3.49	3.91	4.14	6.12	3.78	7.05	4.20	---	2.95	2.97	3.23
2	3.08	3.57	3.83	3.99	6.88	3.75	5.94	7.64	---	2.94	2.87	3.28
3	3.01	3.24	3.48	3.98	6.97	4.94	6.17	---	---	2.96	2.83	3.18
4	2.95	3.09	3.32	4.70	10.13	11.51	5.94	---	---	2.93	2.80	3.06
5	2.92	3.02	3.24	5.83	11.65	13.84	5.67	---	---	2.91	2.79	2.99
6	2.91	2.98	3.27	5.70	11.97	14.76	5.57	---	---	2.92	2.79	2.93
7	2.90	2.96	3.65	4.99	11.90	16.48	5.07	---	3.14	2.91	2.79	2.88
8	2.89	2.94	3.73	4.65	9.87	15.36	4.59	---	3.13	2.92	2.82	2.89
9	2.91	2.93	4.34	5.58	6.93	12.60	4.30	---	3.11	2.93	2.82	3.06
10	2.91	2.93	4.14	8.32	5.56	8.62	4.13	---	3.10	2.94	2.79	4.92
11	2.89	2.95	3.69	8.59	5.17	6.74	4.01	---	3.10	2.92	2.79	6.24
12	2.89	2.95	3.75	8.69	4.98	7.33	3.90	---	3.09	2.93	2.85	5.21
13	2.89	2.96	5.14	7.90	5.04	9.82	3.82	---	3.13	2.93	2.88	4.23
14	2.88	3.09	5.54	10.33	5.33	10.28	3.76	---	3.19	2.98	2.96	3.75
15	2.87	3.39	5.86	11.55	5.15	10.53	3.74	---	3.38	2.95	3.00	3.48
16	2.87	3.40	5.15	10.70	4.76	9.77	3.78	---	3.63	2.90	2.97	3.47
17	2.86	3.61	4.65	10.03	4.50	6.82	3.73	---	3.97	2.87	2.97	3.41
18	2.85	3.38	4.32	8.15	4.33	5.72	3.81	---	4.28	2.85	3.04	3.27
19	2.86	3.24	4.01	6.90	4.23	5.29	3.94	---	3.86	2.91	2.94	3.17
20	2.90	3.19	3.90	5.46	4.15	5.02	4.09	---	3.50	2.91	2.89	3.11
21	2.89	3.17	4.04	4.95	4.09	4.82	7.10	---	3.34	3.03	3.02	3.07
22	2.87	3.45	4.31	4.71	4.03	4.70	9.47	---	3.23	2.96	3.27	3.14
23	2.86	3.61	4.37	4.56	3.96	4.56	9.74	---	3.17	2.92	3.65	3.22
24	2.86	3.41	3.99	4.49	3.91	4.40	9.37	---	3.13	2.96	4.09	3.08
25	2.87	3.24	4.02	4.83	3.89	4.39	7.24	---	3.09	2.92	4.27	3.00
26	2.86	3.15	5.54	5.44	3.91	4.87	5.23	---	3.06	2.88	3.85	2.95
27	2.86	3.11	6.62	5.08	3.87	5.17	4.65	---	3.03	2.87	3.50	2.92
28	2.86	3.13	7.00	4.67	3.80	5.03	4.33	---	3.02	2.90	3.32	2.89
29	2.94	3.28	6.45	4.48	---	6.39	4.12	---	2.99	2.94	3.33	2.87
30	3.09	3.50	4.99	4.38	---	7.32	3.97	---	2.97	3.22	3.53	2.85
31	3.11	---	4.43	4.67	---	7.40	---	---	---	3.16	3.36	---
MEAN	2.91	3.21	4.47	6.21	5.97	7.81	5.27	---	---	2.94	3.12	3.39
MAX	3.11	3.61	7.00	11.55	11.97	16.48	9.74	---	4.28	3.22	4.27	6.24
MIN	2.85	2.93	3.24	3.98	3.80	3.75	3.73	---	2.97	2.85	2.79	2.85

08014800 BUNDICK CREEK NEAR DE RIDDER, LA

LOCATION.--Lat 30°49'09", long 93°13'51", in SE¼NW¼ sec.7, T.3 S., R.8 W., Beauregard Parish, Hydrologic Unit 08080204, near left bank on downstream side of bridge on State Highway 26, 1.1 mi (1.8 km) downstream from Flat Creek, and 3.8 mi (6.1 km) southeast of De Ridder.

DRAINAGE AREA.--120 mi² (311 km²).

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

REVISED RECORD.--WSP 2122: 1957-58, 1961-62, 1964 (M).

GAGE.--Water-stage recorder. Datum of gage is 113.75 ft (34.671 m) above mean sea level (Louisiana Geodetic Survey bench mark).

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--21 years, 161 ft³/s (4.559 m³/s), 18.22 in/yr (463 mm/yr), 116,600 acre-ft/yr (144 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft³/s (487 m³/s) Mar. 25, 1973, gage height, 21.71 ft (6.617 m); minimum, 8.8 ft³/s (0.25 m³/s) Oct. 16, 1956; minimum gage height, 1.90 ft (0.579 m) Sept. 3, 4, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 5	0500	1080 30.6	14.31 4.362	Mar. 28	0845	1110 31.4	14.49 4.417
Mar. 5	unknown	about *2100 51	unknown	Apr. 21	unknown	about 1700 42	unknown
Mar. 13	unknown	about 1100 28	unknown	May 3	0230	1130 32.0	14.58 4.444

Minimum discharge, 15 ft³/s (0.42 m³/s) Aug. 4, 5, 6; minimum gage height, 1.93 ft (0.588 m) Aug. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	73	70	70	294	52	220	219	25	18	22	37
2	25	40	50	68	217	50	200	805	26	18	19	31
3	22	29	45	255	560	48	520	1020	28	20	17	26
4	21	26	42	370	1020	1000	460	532	27	18	16	22
5	20	27	40	261	1040	1800	200	155	25	18	15	18
6	22	24	100	155	584	1500	140	103	24	45	17	17
7	21	22	400	141	190	900	105	82	23	27	25	16
8	21	22	440	152	136	500	90	70	22	29	22	16
9	21	22	420	363	116	350	80	63	21	23	19	91
10	20	22	90	817	104	300	76	57	21	22	18	188
11	20	24	160	733	102	240	70	51	21	20	17	231
12	19	27	760	327	124	800	66	46	20	22	17	176
13	18	28	800	168	148	1000	62	43	21	22	19	52
14	18	49	500	654	131	700	60	41	23	26	24	42
15	18	58	190	854	101	170	58	39	35	21	22	49
16	22	60	134	560	85	135	68	37	57	19	31	57
17	24	45	102	216	76	112	62	35	57	18	38	39
18	26	36	76	134	72	97	60	34	44	17	28	31
19	25	38	63	111	69	89	57	33	31	25	27	29
20	22	66	98	99	67	85	1000	32	30	21	44	32
21	21	91	181	91	63	84	1500	32	26	32	34	43
22	21	78	152	85	60	77	1400	32	23	89	32	43
23	21	54	91	83	60	67	794	31	21	47	32	30
24	22	40	68	117	61	67	266	30	20	35	32	25
25	22	35	187	173	60	161	119	29	20	24	49	23
26	23	37	623	137	58	141	90	30	19	22	44	21
27	23	40	658	102	56	743	74	30	18	29	30	20
28	22	100	374	90	54	1080	65	30	18	47	27	19
29	27	120	133	83	---	799	59	29	18	47	27	18
30	76	96	98	76	---	330	54	27	18	42	27	17
31	88	---	80	190	---	260	---	25	---	28	25	---
TOTAL	803	1429	7225	7735	5708	13737	8075	3822	782	891	816	1459
MEAN	25.9	47.6	233	250	204	443	269	123	26.1	28.7	26.3	48.6
MAX	88	120	800	854	1040	1800	1500	1020	57	89	49	231
MIN	18	22	40	68	54	48	54	25	18	17	15	16
CFSM	.22	.40	1.94	2.08	1.70	3.69	2.24	1.03	.22	.24	.22	.41
IN.	.25	.44	2.24	2.40	1.77	4.26	2.50	1.18	.24	.28	.25	.45
AC-FT	1590	2830	14330	15340	11320	27250	16020	7580	1550	1770	1620	2890

CAL YR. 1976 TOTAL 39650 MEAN 108 MAX 1120 MIN 18 CFSM .90 IN 12.29 AC-FT 78650
#TR YR 1977 TOTAL 52482 MEAN 144 MAX 1800 MIN 15 CFSM 1.20 IN 16.27 AC-FT 104100

NOTE.--No gage-height record Feb. 28 to Mar. 15.

08014800 BUNDICK CREEK NEAR DE RIDDER, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.40	3.30	---	3.25	6.43	---	---	5.34	2.24	2.03	2.11	2.51
2	2.22	2.62	---	3.20	5.45	---	---	11.85	2.28	2.05	2.03	2.34
3	2.14	2.38	---	5.90	9.44	---	---	13.74	2.33	2.10	---	2.22
4	2.11	2.31	---	7.34	13.90	---	---	9.09	2.31	2.05	1.95	2.10
5	2.10	2.32	---	6.01	13.91	---	---	4.61	2.25	2.04	1.94	2.02
6	2.13	2.24	---	4.61	9.66	---	---	3.84	2.21	2.69	1.98	1.97
7	2.11	2.21	---	4.41	5.10	---	---	3.47	2.20	2.25	2.18	1.96
8	2.12	2.20	---	4.57	4.34	---	---	3.25	2.16	2.30	2.11	1.97
9	2.11	2.20	---	7.12	4.04	---	---	3.10	2.15	2.17	2.03	3.54
10	2.08	2.20	---	12.13	3.86	---	---	2.98	2.14	2.12	2.00	5.09
11	2.08	2.24	---	11.27	3.82	---	---	2.85	2.13	2.08	1.98	5.64
12	2.07	2.32	---	6.78	4.16	---	---	2.75	2.13	2.13	1.98	4.86
13	2.05	2.36	---	4.78	4.52	---	---	2.69	2.14	2.13	2.05	2.87
14	2.04	2.82	---	10.44	4.27	---	---	2.64	2.20	2.22	2.17	2.69
15	2.04	3.00	---	12.49	3.80	---	---	2.60	2.49	2.09	2.10	2.82
16	2.14	3.04	4.31	9.43	3.52	4.33	---	2.55	2.98	2.04	2.34	2.97
17	2.19	2.74	3.82	5.42	3.35	3.98	---	2.51	2.98	2.02	2.52	2.62
18	2.26	2.55	3.36	4.32	3.27	3.74	---	2.48	2.70	---	2.27	2.43
19	2.22	2.60	3.10	3.97	3.23	3.60	---	2.46	2.41	---	2.24	2.37
20	2.15	3.17	3.72	3.77	3.18	3.53	---	2.44	2.37	---	2.66	2.46
21	2.13	3.63	4.99	3.64	3.10	3.50	---	2.43	2.26	2.32	2.42	2.69
22	2.12	3.39	4.57	3.53	3.04	3.38	---	2.43	2.18	3.56	2.38	2.70
23	2.12	2.92	3.63	3.50	3.03	3.19	11.80	2.41	2.15	2.72	2.38	2.40
24	2.13	2.63	3.21	4.05	3.06	3.18	6.03	2.39	2.11	2.45	2.36	2.28
25	2.14	2.52	4.91	4.87	3.05	4.70	4.09	2.36	2.10	2.17	2.76	2.22
26	2.16	---	10.14	4.35	3.00	4.42	3.61	2.37	2.08	2.12	2.65	2.17
27	2.16	---	10.52	3.82	2.95	11.23	3.33	2.37	2.06	2.29	2.32	2.14
28	2.13	---	7.32	3.62	---	14.24	3.15	2.37	2.04	2.72	2.24	2.12
29	2.28	---	4.30	3.48	---	11.89	3.02	2.33	2.04	2.72	2.22	2.11
30	3.35	---	3.75	3.36	---	---	2.92	2.29	2.05	2.62	2.24	2.09
31	3.59	---	3.44	5.05	---	---	---	2.25	---	2.26	2.20	---
MEAN	2.23	---	---	5.63	---	---	---	3.65	2.26	---	---	2.68
MAX	3.59	---	---	12.49	13.91	---	---	13.74	2.98	3.56	2.76	5.64
MIN	2.04	2.20	---	3.20	---	---	2.92	2.25	2.04	---	1.94	1.96

08015500 CALCASIEU RIVER NEAR KINDER, LA

LOCATION.--Lat 30°30'10", long 92°54'55", in NW¼SE¼ sec.30, T.6 S., R.5 W., Allen Parish, Hydrologic Unit 08080203, on left bank on downstream side of bridge on U.S. Highway 190, 0.5 mi (0.8 km) downstream from Whisky Chitto Creek, and 4.0 mi (6.4 km) west of Kinder.

DRAINAGE AREA.--1,700 mi² (4,403 km²).

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 (3.642 m) above mean sea level (Louisiana Geodetic Survey bench mark). August 1922 to January 1925, water-stage recorder 400 ft (122 m) downstream at datum 1.77 ft (0.539 m) higher. October 1938 to July 9, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. Paper mill at Elizabeth pumps about 11 ft³/s (0.3 m³/s) from wells which is later discharged into Mill Creek 36 mi (58 km) above station. This discharge is continuous and fairly constant. Water is diverted during period April to September at points just above station and 5.0 mi (8.0 km) above station for the irrigation of about 7,500 acres (30 km²) of rice, part of which is below station. The maximum rate of withdrawal is about 100 ft³/s (2.8 m³/s) and this diversion results in marked regulation of the low-water flow. Records of water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--37 years (1922-24, 1938-57, 1961-77), 2,549 ft³/s (72.19 m³/s), 1,847,000 acre-ft/yr (2.28 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 182,000 ft³/s (5,150 m³/s) May 19, 1953, gage height, 32.00 ft (9.754 m); minimum, 136 ft³/s (3.85 m³/s) Aug. 15, 1956; minimum gage height, 1.99 ft (0.607 m) Aug. 17, 1951, Oct. 20, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,400 ft³/s (323 m³/s) Mar. 8, gage height, 15.98 ft (4.871 m); minimum, 263 ft³/s (7.45 m³/s) Aug. 8. Minimum gage height, 2.18 ft (0.664 m) Oct. 18, 19, 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	408	531	1810	2120	942	2840	2260	440	317	376	549
2	405	459	567	1760	2600	914	2850	3210	426	314	344	515
3	407	426	506	1870	2890	1090	2670	4540	420	315	324	483
4	391	376	475	1880	4270	3700	2660	4770	406	317	311	448
5	407	358	478	2040	5490	6870	2570	5420	393	308	306	423
6	406	352	615	2130	6050	9090	2580	6420	389	304	297	401
7	387	345	1420	1950	6730	10300	2660	6410	377	321	297	380
8	346	335	1390	1730	6890	11200	2690	4780	369	315	282	359
9	331	330	1030	1780	5110	11300	2750	4430	360	333	291	398
10	323	356	878	3130	3480	10500	2730	4260	356	390	288	749
11	315	367	711	3890	3030	9080	2590	3890	350	371	288	1490
12	309	374	817	4080	2810	7790	2260	3220	345	351	356	1310
13	305	376	1650	4280	2810	7290	1810	2270	358	352	402	1020
14	302	406	2150	6340	2840	6920	1400	1460	430	388	426	919
15	299	431	2400	8670	2670	6430	1170	1060	586	364	409	1050
16	300	460	2400	9680	2200	6000	1140	894	589	351	423	910
17	298	474	1980	8880	1800	4780	1090	805	577	332	389	708
18	294	480	1650	7850	1600	3640	1030	739	640	307	379	603
19	298	464	1450	5770	1510	3630	1030	695	658	298	382	525
20	340	493	1500	4380	1440	3930	1130	659	601	333	385	473
21	351	471	1660	3750	1370	4030	3510	633	561	377	424	442
22	350	425	1560	3190	1280	3700	6680	608	529	380	674	420
23	347	459	1450	2860	1190	3070	7350	587	468	364	1110	421
24	345	446	1300	2630	1110	2320	6870	566	418	364	1460	410
25	347	403	1420	2410	1060	1820	5900	550	393	353	1420	385
26	341	383	2410	2240	1040	1590	4420	537	370	354	1380	368
27	337	375	2960	2080	1030	1680	3040	519	353	376	1010	355
28	302	410	2960	1820	990	1700	2420	500	344	368	791	342
29	335	498	2860	1630	---	1790	2290	486	329	364	762	332
30	450	522	2470	1540	---	2290	2250	475	325	365	676	321
31	415	---	2010	1630	---	2640	---	456	---	405	634	---
TOTAL	10783	12462	47658	109680	77410	152026	86380	68109	13160	10751	17296	17509
MEAN	348	415	1537	3538	2765	4904	2879	2197	439	347	558	584
MAX	450	522	2960	9680	6890	11300	7350	6420	658	405	1460	1490
MIN	294	330	475	1540	990	914	1030	456	325	298	282	321
AC-FT	21390	24720	94530	217600	153500	301500	171300	135100	26100	21320	34310	34730
CAL YR 1976	TOTAL	599521	MEAN	1638	MAX	10100	MIN	294	AC-FT	1189000		
WTR YR 1977	TOTAL	623224	MEAN	1707	MAX	11300	MIN	282	AC-FT	1236000		

08015500 CALCASIEU RIVER NEAR KINDER, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.54	2.53	2.89	5.95	7.02	4.02	8.77	7.52	3.12	2.66	2.68	3.14
2	2.56	2.69	3.00	5.82	8.15	3.93	8.81	9.21	3.08	2.64	2.58	3.04
3	2.56	2.59	2.81	6.08	8.77	4.43	8.44	11.31	3.07	2.64	2.51	2.94
4	2.51	2.43	2.72	6.13	10.68	9.54	8.42	11.89	3.03	2.64	2.46	2.83
5	2.56	2.38	2.73	6.51	12.38	13.36	8.23	12.63	2.99	2.61	2.45	2.75
6	2.56	2.35	3.13	6.74	13.24	15.09	8.25	13.59	2.98	2.59	2.42	2.68
7	2.49	2.33	5.39	6.31	13.84	15.62	8.41	13.58	2.94	2.63	2.41	2.61
8	2.36	2.30	5.32	5.72	13.95	15.91	8.47	12.30	2.91	2.61	2.36	2.56
9	2.31	2.28	4.33	5.87	12.87	15.94	8.59	11.45	2.88	2.66	2.39	2.69
10	2.29	2.36	3.91	8.74	10.62	15.69	8.57	11.22	2.87	2.84	2.37	3.74
11	2.26	2.40	3.42	10.48	9.16	15.09	8.27	10.67	2.85	2.77	2.37	5.78
12	2.24	2.42	3.73	10.80	8.73	14.45	7.53	9.56	2.84	2.71	2.58	5.32
13	2.23	2.42	5.99	11.10	8.71	14.18	6.40	7.73	2.88	2.70	2.73	4.53
14	2.22	2.51	7.25	12.99	8.77	13.97	5.32	5.86	3.09	2.80	2.79	4.24
15	2.21	2.59	7.85	14.79	8.44	13.61	4.70	4.84	3.54	2.73	2.74	4.61
16	2.22	2.68	7.86	15.37	7.39	13.20	4.61	4.39	3.54	2.68	2.78	4.22
17	2.20	2.72	6.78	15.00	6.37	12.35	4.47	4.15	3.51	2.62	2.67	3.64
18	2.19	2.74	5.90	14.48	5.86	10.67	4.26	3.97	3.68	2.53	2.63	3.34
19	2.20	2.69	5.34	13.43	5.61	10.26	4.26	3.85	3.73	2.50	2.64	3.11
20	2.33	2.77	5.43	11.87	5.43	10.74	4.56	3.75	3.56	2.60	2.64	2.95
21	2.37	2.71	5.79	10.38	5.24	10.90	9.27	3.67	3.44	2.73	2.76	2.85
22	2.36	2.57	5.50	9.39	4.99	10.36	13.42	3.60	3.34	2.74	3.51	2.78
23	2.35	2.67	5.16	8.71	4.74	9.23	14.21	3.55	3.16	2.68	4.74	2.79
24	2.35	2.63	4.72	8.22	4.51	7.65	13.93	3.48	3.01	2.68	5.69	2.75
25	2.35	2.50	4.99	7.73	4.36	6.43	13.09	3.44	2.93	2.63	5.57	2.67
26	2.33	2.45	7.47	7.34	4.29	5.84	11.41	3.40	2.86	2.64	5.47	2.62
27	2.31	2.42	8.69	6.92	4.27	6.06	9.16	3.35	2.79	2.69	4.47	2.58
28	2.20	2.53	8.70	6.27	4.15	6.11	7.91	3.29	2.77	2.67	3.84	2.54
29	2.31	2.79	8.47	5.78	---	6.34	7.61	3.25	2.71	2.65	3.76	2.51
30	2.67	2.86	7.59	5.55	---	7.60	7.50	3.22	2.68	2.65	3.51	2.48
31	2.56	---	6.45	5.77	---	8.40	---	3.17	---	2.78	3.39	---
MEAN	2.36	2.54	5.46	8.91	7.95	10.55	8.23	6.80	3.09	2.67	3.16	3.24
MAX	2.67	2.86	8.70	15.37	13.95	15.94	14.21	13.59	3.73	2.84	5.69	5.78
MIN	2.19	2.28	2.72	5.55	4.15	3.93	4.26	3.17	2.68	2.50	2.36	2.48

08016400 BECKWITH CREEK NEAR DE QUINCY, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.63	2.58	3.02	3.10	4.71	2.28	9.75	2.76	1.62	1.42	1.47	2.36
2	1.61	2.26	2.77	3.21	4.23	2.26	9.22	4.71	1.63	1.43	1.83	2.06
3	1.65	2.09	2.51	6.62	6.06	5.92	5.79	3.95	1.64	1.43	1.76	1.86
4	1.68	1.95	2.26	6.15	9.69	13.98	4.77	3.90	1.62	1.42	1.60	1.72
5	1.65	1.82	2.10	5.21	8.38	12.06	4.72	4.32	1.74	1.43	1.53	1.63
6	1.64	1.72	3.21	5.18	8.52	10.34	4.21	3.70	1.84	1.44	1.46	1.56
7	1.61	1.66	9.43	4.65	10.04	8.47	3.58	2.91	1.72	1.49	1.40	1.56
8	1.59	1.61	6.86	3.95	10.75	7.06	3.08	2.54	1.65	1.49	1.36	1.80
9	1.57	1.59	5.78	6.95	8.07	4.80	2.75	2.35	1.60	1.46	1.35	1.60
10	1.54	1.60	5.06	9.68	4.24	3.74	2.54	2.24	1.56	1.47	1.72	3.31
11	1.53	1.64	3.60	7.41	3.61	3.61	2.41	2.15	1.53	1.58	2.16	3.72
12	1.50	1.85	7.56	7.03	4.48	10.48	2.31	2.07	1.52	1.54	2.46	3.59
13	1.52	1.70	11.92	8.47	4.07	9.36	2.24	2.02	1.61	1.50	1.95	3.60
14	1.46	1.80	9.44	16.32	3.59	8.12	2.18	1.97	1.89	1.47	2.18	3.31
15	1.42	1.77	9.91	15.57	3.42	7.61	2.13	1.93	3.07	1.68	2.13	3.03
16	1.53	1.79	8.23	11.80	3.18	7.08	2.11	1.90	2.70	1.90	1.80	2.40
17	1.63	2.06	5.94	9.69	2.94	4.57	2.10	1.87	2.37	1.77	1.64	2.08
18	1.60	2.08	4.25	9.09	2.78	3.49	2.09	1.84	2.10	1.71	1.56	2.00
19	1.60	2.47	3.52	7.50	2.68	3.13	2.26	1.81	1.91	1.83	1.56	1.96
20	1.63	3.47	8.01	4.41	2.60	2.92	7.76	1.80	1.85	2.00	1.59	2.06
21	1.61	3.16	7.56	3.63	2.54	2.75	14.73	1.77	1.76	1.88	1.85	2.03
22	1.60	2.63	5.21	3.31	2.49	2.62	11.83	1.76	1.67	2.00	2.39	2.02
23	1.58	2.38	4.74	3.15	2.44	2.52	8.51	1.74	1.61	2.56	4.62	1.91
24	1.56	2.23	3.93	3.08	2.40	2.47	8.41	1.72	1.57	2.21	3.03	1.88
25	1.55	2.09	6.01	3.07	2.38	2.83	8.40	1.70	1.53	1.82	6.28	1.79
26	1.56	1.99	9.22	3.06	2.38	3.34	5.89	1.71	1.50	1.71	5.21	1.68
27	1.58	1.95	7.37	3.02	2.36	3.74	3.43	1.75	1.47	1.57	3.01	1.60
28	1.58	2.50	6.58	2.96	2.31	7.40	2.85	1.70	1.46	1.71	2.53	1.56
29	2.07	4.53	6.41	2.86	---	8.37	2.58	1.66	1.45	1.58	2.15	1.53
30	4.08	3.52	4.99	2.79	---	7.86	2.43	1.64	1.43	1.66	2.19	1.49
31	3.08	---	3.59	3.58	---	8.62	---	1.63	---	1.60	2.19	---
MEAN	1.79	2.22	5.84	6.02	4.55	5.93	4.90	2.31	1.75	1.67	2.26	2.16
MAX	4.08	4.53	11.92	16.32	10.75	13.98	14.73	4.71	3.07	2.56	6.28	3.72
MIN	1.42	1.59	2.10	2.79	2.31	2.26	2.09	1.63	1.43	1.42	1.35	1.49

SABINE RIVER BASIN

08022000 SABINE RIVER NEAR TATUM, TX

LOCATION.--Lat 32°22'11", long 94°27'28", Panola County, Hydrologic Unit 12010002, near right bank on downstream side of pier of bridge on State Highway 43, 5.1 mi (8.2 km) northeast of Tatum, 5.2 mi (8.4 km) upstream from Potters Creek, 5.6 mi (9.0 km) downstream from Cherokee Bayou, and at mile 339.4 (546.1 km).

DRAINAGE AREA.--3,493 mi² (9,047 km²).

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for October 1938 to January 1939, published in WSP 1312.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 204.18 ft (62.234 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 21, 1945, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair. Flow is partly regulated by Lake Tawakoni (Texas sta 08017400) located 175 mi (282 km) upstream and by six reservoirs on tributary streams, combined capacity, 1,022,000 acre-ft (1.26 km³). Several diversions above station and below Lake Tawakoni for oilfield operation, municipal, and industrial uses.

AVERAGE DISCHARGE.--22 years (water years 1939-60) prior to regulation by Lake Tawakoni, 2,663 ft³/s (75.42 m³/s), 1,929,000 acre-ft/yr (2.38 km³/yr); 17 years (water years 1961-77) regulated, 2,342 ft³/s (66.33 m³/s), 1,697,000 acre-ft/yr (2.09 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft³/s (3,480 m³/s) Apr. 4, 1945, gage height, 33.80 ft (10.302 m), from graph based on gage readings, from rating curve extended above 66,000 ft³/s (1,870 m³/s) on basis of partly estimated measurement of 88,900 ft³/s (2,520 m³/s); minimum observed, 2.4 ft³/s (0.068 m³/s) Aug. 11, 12, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1884, that of Apr. 4, 1945. Flood in May 1884 reached a stage of about 32 ft (9.8 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,400 ft³/s (323 m³/s) Apr. 12, gage height, 22.30 ft (6.797 m); minimum observed, 95 ft³/s (2.69 m³/s) Aug. 8.

DISCHARGE* IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	748	577	480	932	1720	9950	5890	7390	442	662	157	682
2	682	590	453	806	1860	9020	5810	7560	446	561	170	570
3	578	605	410	837	2000	8410	5850	7580	329	488	169	494
4	452	605	407	929	2270	8730	6180	7270	320	398	148	440
5	368	614	468	1020	2470	8730	6940	6720	297	327	133	386
6	491	600	593	1100	2540	8300	7840	6090	258	302	122	341
7	493	584	1080	1140	2630	7650	8510	5220	232	357	112	291
8	426	521	1340	1120	2760	6810	9200	3880	216	388	98	245
9	477	480	1550	1200	2930	6260	9980	2970	207	385	97	226
10	609	427	1870	1820	3110	5990	10600	2410	192	363	115	234
11	721	401	2440	1860	3900	5910	11100	2020	173	345	118	288
12	734	366	4140	1660	6680	6020	11300	1740	142	340	120	313
13	639	339	4950	1630	9160	6250	11200	1520	140	360	123	303
14	529	343	4930	2550	9910	6470	10900	1420	221	360	123	279
15	397	333	4670	3430	9350	6660	10400	1330	310	321	120	235
16	330	344	4320	3350	8570	6890	9700	1280	484	276	130	196
17	286	356	4020	2910	7860	7160	8890	1280	653	247	116	171
18	249	387	3810	2580	7400	7260	8220	1230	1060	210	116	148
19	243	411	3700	2380	7290	7190	7800	1150	1280	181	134	160
20	250	453	3630	2260	6740	6800	7400	1030	1200	164	166	554
21	244	480	3560	2220	8100	6390	7090	933	1360	159	187	1110
22	248	469	3290	2170	8880	5740	6960	851	1690	150	883	893
23	253	465	2650	1900	9680	4650	6920	793	2060	144	1000	534
24	248	437	1950	1780	10500	3340	6960	778	2420	136	615	332
25	252	431	1560	1630	11000	2550	7050	737	2780	128	471	233
26	269	430	1460	1580	11100	2230	7180	678	3040	130	625	187
27	302	520	1410	1520	10900	2830	7360	609	3000	126	974	161
28	292	562	1230	1410	10600	4820	7480	551	2400	124	1070	145
29	297	554	1030	1320	---	5840	7530	491	1530	130	1070	139
30	395	500	938	1280	---	6010	7480	455	909	140	956	133
31	587	---	923	1440	---	5970	---	426	---	147	824	---
TOTAL	13079	14184	69262	53764	181910	196830	245720	78392	29791	8549	11262	10423
MEAN	422	473	2234	1734	6497	6349	8191	2529	993	276	363	347
MAX	748	614	4950	3430	11100	9950	11300	7580	3040	662	1070	1110
MIN	243	333	407	806	1720	2230	5810	426	140	124	97	133
AC-FT	25940	28130	137400	106600	360800	390400	487400	155500	59090	16960	22340	20670
CAL YR 1976	TOTAL	655546	MEAN	1791	MAX	10600	MIN	85	AC-FT	1300000		
WTR YR 1977	TOTAL	913166	MEAN	2502	MAX	11300	MIN	97	AC-FT	1811000		

WATER-QUALITY RECORDS

WATER TEMPERATURES: Maximum, 34.0°C July 20, 25, 28, Aug. 12; minimum, 5.0°C on several days during January and February.

[illegible]

SABINE RIVER BASIN

08022000 SABINE RIVER NEAR TATUM, TX--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	VOL. NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 12...	16	189	35	5	--	--	--	--	--	--
NOV 09...	15	292	35	5	.10	.01	.06	.74	.18	14
DEC 21...	11	147	--	--	--	--	--	--	--	--
JAN 20...	16	295	45	5	.12	.01	.15	.55	.12	7.8
MAR 23...	8.1	153	55	3	.05	.01	.11	.69	.10	--
MAY 26...	12	181	47	4	.42	.04	.16	1.1	.22	6.0
JUL 26...	7.0	226	30	6	.01	.00	.10	.50	.12	13
SEP 27...	--	--	27	2	--	--	--	--	--	--

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
JAN 20...	1545	1	100	4	0	3	90
MAY 26...	0930	1	800	2	0	2	60
JUL 26...	1140	1	300	1	0	1	40

DATE	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
JAN 20...	3	230	.0	0	0	20
MAY 26...	1	80	.2	0	0	10
JUL 26...	2	220	.0	0	0	0

DATE	TIME	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)
JAN 20...	1545	.0	8	.00	.00	.0	.0	18	.00	.0	.00	.0
MAY 26...	0930	.0	0	.00	.00	.0	.0	0	.00	.0	.00	.0

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)
JAN 20...	.00	.7	.01	.00	1.0	.00	.0	.00	.00	.2	.00	.0
MAY 26...	.00	.0	.02	.00	.0	.00	.0	.00	.00	.0	.00	.0

08022000 SABINE RIVER NEAR TATUM, TX--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN 20...	.00	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00
MAY 26...	.00	.0	.00	.00	.00	.00	0	0	.00	.00	.02	.00

MONTHLY AND ANNUAL MEANS AND LOADS

MONTH	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT- ANCE (MICHO- MHOS)	DIS- SOLVED SOLIDS (MG/L)	DIS- SOLVED SOLIDS (TONS)	DIS- SOLVED CHLORIDE (MG/L)	DIS- SOLVED CHLORIDE (TONS)	DIS- SOLVED SULFATE (MG/L)	DIS- SOLVED SULFATE (TONS)	HARDNESS (CA+MG) (MG/L)
OCT. 1976.....	13079	364	190	6830	60	2130	30	1070	57
NOV. 1976.....	14184	451	240	9070	82	3150	36	1390	63
DEC. 1976.....	69262	291	160	29200	42	7910	25	4710	51
JAN. 1977.....	53764	349	190	27100	57	8260	29	4230	56
FEB. 1977.....	181910	209	110	56300	29	14300	19	9290	46
MAR. 1977.....	196830	213	120	62300	27	14100	20	10500	46
APR. 1977.....	245720	190	110	69900	23	15200	18	11900	44
MAY 1977.....	78392	256	140	29600	35	7320	23	4850	49
JUNE 1977.....	29791	281	150	12200	43	3480	24	1970	51
JULY 1977.....	8549	334	180	4140	53	1220	28	650	54
AUG. 1977.....	11262	343	180	5600	56	1690	29	875	55
SEPT 1977.....	10423	378	200	5670	64	1800	31	882	58
TOTAL	913166	**	**	318000	**	80600	**	52300	**
WTD.AVG,	2501.82	236	130	**	33	**	21	**	48

SABINE RIVER BASIN

08022000 SABINE RIVER NEAR TATUM, TX--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C); WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	399	523	355	376	199	233	213	477	273	469	225
2	273	487	479	339	491	169	181	210	437	278	497	310
3	259	359	562	109	404	157	204	218	427	287	509	317
4	256	399	515	411	431	222	207	226	436	293	499	328
5	237	378	601	403	446	220	224	224	664	298	517	308
6	417	425	401	365	400	216	181	213	676	293	492	301
7	385	484	340	357	323	220	168	237	549	313	501	319
8	320	707	310	371	432	218	165	253	465	339	493	305
9	244	601	290	291	175	196	160	257	465	335	506	297
10	277	755	236	387	350	188	243	262	467	333	515	293
11	371	476	300	350	501	193	162	282	480	326	518	326
12	380	520	245	336	174	200	175	285	468	322	529	332
13	620	435	297	292	191	179	187	292	477	330	517	358
14	475	386	222	301	275	193	168	299	468	339	510	373
15	320	377	254	302	330	183	203	307	499	338	515	394
16	332	369	227	320	156	179	214	311	421	381	490	416
17	342	378	303	377	160	188	180	315	396	337	523	467
18	401	403	287	400	165	202	195	317	385	334	522	457
19	410	396	278	347	152	260	219	332	336	339	536	459
20	385	363	262	354	160	244	155	329	231	349	568	315
21	452	382	271	365	150	260	165	334	215	371	485	517
22	408	424	291	378	141	273	149	341	570	355	291	287
23	415	361	286	376	168	228	172	343	303	386	271	423
24	425	440	315	378	145	305	180	345	168	392	249	390
25	431	454	340	346	136	257	191	335	165	398	333	640
26	428	422	363	368	141	185	199	400	175	408	400	550
27	396	429	324	343	143	285	206	457	182	455	353	667
28	400	475	334	350	184	244	212	491	193	420	335	647
29	371	492	361	380	---	179	219	517	222	468	243	631
30	407	521	357	375	---	202	215	552	252	448	182	614
31	385	---	366	367	---	306	---	566	---	498	276	---

TEMPERATURE (DEG. C) OF WATER
ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	13.0	10.0	---	5.0	12.0	15.0	20.0	28.0	30.0	30.0	29.0
2	26.0	13.0	9.0	7.0	5.0	11.0	15.0	21.0	29.0	32.0	32.0	30.0
3	---	14.0	10.0	8.0	6.0	10.0	14.0	22.0	28.0	31.0	33.0	30.0
4	---	---	11.0	8.0	7.0	11.0	15.0	23.0	29.0	---	33.0	30.0
5	---	---	11.0	7.0	7.0	12.0	16.0	23.0	29.0	29.0	32.0	30.0
6	---	---	11.0	6.0	---	12.0	16.0	23.0	29.0	30.0	32.0	30.0
7	---	13.0	---	7.0	7.0	15.0	18.0	23.0	30.0	30.0	32.0	30.0
8	---	12.0	9.0	8.0	7.0	12.0	17.0	24.0	30.0	31.0	33.0	30.0
9	---	---	10.0	5.0	6.0	12.0	19.0	22.0	29.0	31.0	32.0	31.0
10	---	11.0	9.0	5.0	8.0	12.0	15.0	20.0	30.0	30.0	33.0	30.0
11	---	11.0	10.0	6.0	8.0	11.0	16.0	23.0	30.0	30.0	33.0	29.0
12	---	12.0	9.0	6.0	7.0	12.0	---	---	28.0	33.0	34.0	29.0
13	---	---	10.0	6.0	9.0	14.0	17.0	25.0	28.0	33.0	31.0	30.0
14	---	10.0	9.0	8.0	9.0	14.0	17.0	24.0	27.0	33.0	31.0	28.0
15	---	10.0	9.0	6.0	8.0	15.0	16.0	24.0	27.0	32.0	32.0	28.0
16	---	10.0	10.0	5.0	10.0	13.0	15.0	24.0	26.0	33.0	33.0	29.0
17	---	12.0	10.0	6.0	10.0	14.0	17.0	24.0	27.0	32.0	33.0	29.0
18	---	11.0	9.0	5.0	11.0	13.0	19.0	25.0	29.0	33.0	29.0	29.0
19	---	12.0	9.0	5.0	10.0	15.0	18.0	25.0	30.0	31.0	30.0	27.0
20	---	11.0	8.0	7.0	10.0	15.0	20.0	26.0	30.0	34.0	30.0	29.0
21	---	13.0	8.0	---	9.0	---	20.0	23.0	31.0	33.0	30.0	29.0
22	---	12.0	9.0	7.0	11.0	16.0	23.0	24.0	30.0	33.0	30.0	30.0
23	---	10.0	10.0	7.0	11.0	14.0	21.0	---	30.0	32.0	29.0	29.0
24	---	11.0	---	6.0	12.0	15.0	20.0	26.0	30.0	---	29.0	30.0
25	---	13.0	---	5.0	11.0	16.0	21.0	25.0	29.0	34.0	30.0	30.0
26	---	10.0	10.0	5.0	12.0	14.0	19.0	---	---	32.0	31.0	29.0
27	---	9.0	8.0	6.0	10.0	16.0	20.0	26.0	31.0	33.0	30.0	30.0
28	---	---	7.0	7.0	11.0	14.0	19.0	27.0	31.0	34.0	31.0	30.0
29	---	9.0	8.0	7.0	---	14.0	23.0	28.0	31.0	32.0	30.0	31.0
30	---	9.0	8.0	5.0	---	13.0	22.0	27.0	32.0	32.0	29.0	31.0
31	---	---	9.0	6.0	---	15.0	---	28.0	---	33.0	29.0	---

08022500 SABINE RIVER AT LOGANSPOUT, LA

LOCATION.--Lat 31°58'20", long 94°00'22", De Soto Parish, Louisiana-Shelby County, Texas State line at Logansport, Hydrologic Unit 12010004, just upstream from bridge on U.S. Highway 84, 3 mi (5 km) upstream from Bayou Castor, 111 mi (179 km) upstream from Toledo Bend Dam, and at mile 267.1 (429.8 km).

DRAINAGE AREA.--7,178 mi² (18,591 km²), see station 08025350.

PERIOD OF RECORD.--Gage-height record March 1968 to current year. Discharge record July 1903 to February 1968.

REVISED RECORDS.--WSP 1312: 1903-6 (monthly and annual means). WSP 1732: 1929(M), 1933(M).

GAGE.--Water-stage recorder. Datum of gage is 147.72 ft (45.025 m) above mean sea level. July 1, 1903, to Sept. 30, 1956, nonrecording gage. Oct. 1, 1956, to Jan. 16, 1964, water-stage recorder 4,600 ft (1,400 m) upstream. Jan. 16, 1964, to Dec. 10, 1968, water-stage recorder 4,700 ft (1,430 m) upstream. All gages to present datum except prior to Dec. 31, 1906, when datum was 2.00 ft (0.610 m) lower.

REMARKS.--Station discontinued as daily streamflow station Mar. 1, 1968, due to backwater from storage in Toledo Bend Reservoir (station 08025350). Eight major reservoirs, with a combined capacity of 1,068,000 acre-ft (1.32 km³), largely regulated the flow. For statement regarding regulation by Soil Conservation Service floodwater-retarding structures, see Sabine River near Gladewater (Texas station 08020000). Numerous diversions above station for oilfield operations, municipal, and industrial uses.

AVERAGE DISCHARGE.--64 years (water years 1904-67), 3,208 ft³/s (90.85 m³/s), 2,324,000 acre-ft/yr (2.87 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height (1968-77), 32.50 ft (9.906 m) Apr. 20, 1969; minimum since initial filling of Toledo Bend Reservoir in June 1968, 18.40 ft (5.608 m) Oct. 19, 1972.

Maximum discharge (1903-67), 92,000 ft³/s (2,610 m³/s) Apr. 8, 1945, gage height, 44.07 ft (13.433 m), from floodmark; minimum, 16 ft³/s (0.453 m³/s) Sept. 26-28, Oct. 3, 4, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1884, that of Apr. 8, 1945. Flood in May 1884 reached a stage of 39.4 ft (12.01 m), present site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.74 ft (7.846 m) Apr. 19; minimum, 18.71 ft (5.703 m) Sept. 30.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.40	19.25	19.19	20.34	21.05	24.18	25.05	25.05	23.52	22.68	21.36	20.41
2	19.40	19.15	19.20	20.29	21.12	24.38	25.08	25.07	23.52	22.59	21.25	20.29
3	19.43	19.15	19.24	20.39	21.33	24.68	25.12	25.20	23.42	22.61	21.26	20.19
4	19.56	19.15	19.25	20.36	21.50	25.19	24.95	25.37	23.36	22.59	21.22	20.22
5	19.14	19.30	19.27	20.31	21.50	25.42	24.75	25.40	23.40	22.50	21.18	20.08
6	19.25	19.30	19.23	20.15	21.55	25.35	24.69	25.30	23.34	22.47	21.07	19.99
7	19.00	19.30	19.49	20.35	21.52	25.35	24.68	25.18	23.18	22.31	21.06	19.97
8	19.25	19.25	19.61	20.41	21.52	25.45	24.69	25.05	23.20	22.24	21.01	19.97
9	19.25	19.25	19.73	20.03	21.52	25.45	24.70	24.80	23.15	22.42	20.99	19.95
10	19.30	19.25	19.68	20.50	21.55	25.39	24.79	24.58	23.08	22.37	20.81	19.86
11	19.30	19.25	19.81	20.61	22.28	25.00	24.87	24.35	23.17	22.39	20.80	19.90
12	19.35	19.25	20.29	20.60	22.80	24.70	24.90	24.33	23.18	22.12	20.63	20.10
13	19.30	19.25	20.68	20.72	23.35	24.53	24.95	24.26	23.23	22.16	20.59	19.78
14	19.30	19.23	20.93	20.97	23.53	24.44	25.07	24.30	23.14	22.03	20.62	19.57
15	19.30	19.20	21.09	21.32	23.84	24.29	25.17	24.25	23.14	21.89	20.66	19.61
16	19.30	19.20	21.17	21.35	24.33	24.26	25.25	24.78	23.12	22.05	20.52	19.50
17	19.30	19.20	21.11	21.55	24.65	24.55	25.48	24.10	23.10	22.08	20.58	19.47
18	19.25	19.21	20.99	21.13	24.70	24.23	25.72	24.21	23.10	21.97	20.70	19.45
19	19.15	19.26	21.05	21.30	24.53	24.14	25.70	24.19	23.12	21.91	20.69	19.32
20	19.15	19.23	20.87	21.20	24.32	24.19	25.55	24.24	23.14	21.86	20.73	19.31
21	19.15	19.24	21.02	21.16	24.17	23.97	25.45	24.00	23.08	21.84	20.79	19.25
22	19.15	19.29	21.01	21.12	24.10	24.06	25.30	24.04	23.04	21.72	21.00	19.23
23	19.15	19.26	20.87	21.13	23.80	24.05	25.17	23.93	22.98	21.76	21.03	19.30
24	19.15	19.22	20.82	21.09	23.76	23.96	25.08	23.84	22.95	21.82	20.90	19.19
25	19.15	19.38	20.48	21.08	23.97	23.61	24.95	23.74	22.96	21.78	20.89	19.17
26	19.15	19.23	20.68	21.05	23.71	23.45	24.87	23.67	23.11	21.69	21.02	19.05
27	19.15	18.90	20.80	20.94	23.86	23.72	24.95	23.66	23.10	21.64	20.89	18.89
28	19.20	18.91	20.53	20.72	23.99	23.90	24.92	23.70	22.97	21.56	20.72	18.88
29	19.20	19.29	20.61	20.85	---	24.19	24.92	23.70	22.89	21.64	20.68	18.82
30	19.20	19.26	20.28	20.83	---	24.30	24.87	23.62	22.83	21.55	20.67	18.88
31	19.25	---	20.36	20.95	---	24.68	---	23.48	---	21.52	20.53	---
MEAN	19.24	19.22	20.30	20.80	22.99	24.49	25.05	24.37	23.15	22.06	20.87	19.59
MAX	19.56	19.38	21.17	21.55	24.70	25.45	25.72	25.40	23.52	22.68	21.36	20.41
MIN	19.00	18.90	19.19	20.03	21.05	23.45	24.68	23.48	22.83	21.52	20.52	18.82

WTR YR 1977 MEAN 21.84 MAX 25.72 MIN 18.82

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA, MG)
NOV 16...	1130	324	6.6	9.5	50	10	8.6	2.2	120	855	--	60
JAN 12...	1615	352	7.1	4.0	40	25	14.8	6.9	B260	--	--	65
APR 20...	0900	214	6.6	19.0	60	20	6.6	2.6	80	--	35	70
JUL 19...	1100	324	7.1	32.0	25	10	6.2	1.6	B24	--	88	64

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV 16...	14	17	4.3	35	54	2.0	3.0	56	0	46	23	23
JAN 12...	38	16	6.0	37	54	2.0	3.3	33	0	27	4.2	36
APR 20...	8	21	4.3	17	33	.9	3.1	76	0	62	31	18
JUL 19...	18	18	4.7	33	51	1.8	4.3	56	0	46	7.1	27

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 16...	54	.1	20	181	184	.25	.41	--	--	--	.06	3.8
JAN 12...	62	.2	13	205	190	.28	.20	.85	1.1	4.6	.14	6.6
APR 20...	24	.1	7.0	--	132	.18	.08	.78	.86	3.8	.10	--
JUL 19...	45	.1	9.5	196	169	.27	.01	.95	.96	4.3	.05	7.0

DATE	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (UG/L)
NOV 16...	1	1	0	0	20	0	4	4	50	10	0	.5

DATE	DISSOLVED MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)
NOV 16...	.1	4	3	30	20	.00	0	0	.0	0	.00	.0

08022500 SABINE RIVER AT LOGANSPOUT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)
NOV 16...	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.01	.0

DATE	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
NOV 16...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	TOTAL MALA- THION (UG/L)	MALA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)
NOV 16...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0	0

DATE	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 16...	.00	.0	.00	.00	.00

08022765 BAYOU CASTOR NEAR FUNSTON, LA

LOCATION.--Lat 32°00'57", long 93°57'35", SW 1/4 sec.24, T.12 N., R.6 W., De Soto Parish, Hydrologic Unit 12010004, near center of span on downstream side of bridge on unnumbered parish road, 0.3 mi (0.48 km) downstream from Bushneck Bayou, and 2.4 mi (3.86 km) south of Funston.

DRAINAGE AREA.--91.5 mi² (237.0 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 188.50 ft (57.455 m), unadjusted above mean sea level (Louisiana Geodetic Survey bench mark).

REMARKS.--Record good except those for period of no gage-height record, which are fair. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--6 years, 66.4 ft³/s (1.880 m³/s), 9.85 in/yr (250 mm/yr), 48,110 acre-ft/yr (59.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,690 ft³/s (133 m³/s) Jan. 24, 1974, gage height, 15.23 ft (4.642 m); minimum, no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 900 ft³/s (25.5 m³/s), no peak above base; maximum discharge, about 790 ft³/s (22.4 m³/s) Feb. 13, gage height unknown; minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	.86	3.2	11	8.1	53	23	61	9.2	3.8	.70	7.0	.06		
2	.58	2.4	10	7.9	73	22	76	18	2.0	.60	4.7	.02		
3	.36	2.1	11	11	161	130	170	12	1.4	.53	2.4	.01		
4	.25	1.8	11	14	258	540	358	8.2	1.1	.46	1.2	0		
5	.15	1.6	10	14	128	350	223	8.2	.94	.37	.65	0		
6	.07	1.4	36	14	55	100	70	6.1	.80	.32	.42	0		
7	.04	1.3	56	16	37	70	40	4.1	.67	.28	.25	0		
8	.04	1.2	43	15	30	54	30	3.0	.53	.26	.16	.01		
9	.03	1.1	22	36	25	44	24	2.5	.40	.24	.09	0		
10	.02	1.4	15	65	23	38	20	6.8	.31	.24	.05	0		
11	.01	1.2	28	46	250	34	17	4.0	.26	.46	.05	0		
12	0	.97	89	26	450	30	15	2.8	.24	2.5	.04	0		
13	0	1.0	65	27	660	27	14	2.0	.55	5.5	.17	0		
14	0	1.7	26	280	214	24	13	1.6	117	2.7	.25	0		
15	0	2.2	14	264	68	22	12	1.3	143	1.5	.09	0		
16	0	3.1	9.2	75	44	19	11	1.0	48	.99	.30	0		
17	.01	2.8	7.1	40	35	17	10	.90	28	.66	.51	0		
18	0	2.7	5.7	30	29	16	260	.82	17	.45	15	.01		
19	0	2.9	6.8	24	26	15	100	.74	11	.32	11	.04		
20	.03	3.6	180	21	20	15	40	.68	7.4	1.6	19	.36		
21	.04	5.4	112	20	20	14	160	.62	5.5	2.6	14	1.9		
22	.05	6.0	38	18	19	14	50	.58	4.3	1.2	8.1	.85		
23	.05	5.1	22	19	17	12	26	.56	3.6	.43	6.6	.34		
24	.04	4.9	16	26	106	12	17	.54	2.9	.22	3.6	.17		
25	.05	4.9	14	27	429	13	13	.54	2.4	.15	2.1	.06		
26	.04	5.7	14	27	104	14	11	.52	2.0	.13	1.4	.03		
27	.05	9.8	12	23	42	74	9.0	1.6	1.7	4.4	.79	.01		
28	.11	11	11	20	28	361	8.2	1.0	1.3	3.6	.64	0		
29	.41	12	11	18	---	475	7.5	.62	1.0	2.4	.40	0		
30	2.6	12	9.6	25	---	200	6.8	.56	.84	1.7	.25	0		
31	4.4	---	8.8	41	---	53	---	3.0	---	7.8	.17	---		
TOTAL	10.29	116.47	924.2	1298.0	3404	2832	1872.5	104.08	409.94	45.31	101.38	3.87		
MEAN	.33	3.88	29.8	41.9	122	91.4	62.4	3.36	13.7	1.46	3.27	.13		
MAX	4.4	12	180	280	660	540	358	18	143	7.8	19	1.9		
MIN	0	.97	5.7	7.9	17	12	6.8	.52	.24	.13	.04	0		
CFSM	.003	.04	.33	.46	1.33	1.00	.68	.04	.15	.02	.04	.001		
IN.	.004	.05	.38	.53	1.38	1.15	.76	.04	.17	.02	.04	.002		
AC-FT	20	231	1830	2570	6750	5620	3710	206	813	90	201	7.7		
CAL YR 1976	TOTAL	14263.65	MEAN	39.0	MAX	987	MIN	0	CFSM	.43	IN	5.80	AC-FT	28290
WTR YR 1977	TOTAL	11122.04	MEAN	30.5	MAX	660	MIN	0	CFSM	.33	IN	4.52	AC-FT	22060

08022765 BAYOU CASTOR NEAR FUNSTON, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.06	2.27	2.78	2.79	---	3.53	4.76	2.91	---	1.98	2.51	---
2	2.02	2.21	2.76	2.78	5.03	3.51	5.13	3.40	---	1.96	2.34	---
3	1.97	2.18	2.79	2.93	6.64	---	6.80	3.09	---	1.95	2.15	---
4	1.94	2.16	2.77	3.09	8.35	---	9.78	2.86	---	1.93	2.04	---
5	1.90	2.14	2.75	3.12	6.11	---	7.71	2.87	---	1.92	1.97	---
6	1.86	2.12	3.76	3.10	4.53	---	---	2.71	---	1.91	1.93	---
7	1.83	2.11	4.54	3.19	3.92	---	---	2.56	2.01	1.90	1.88	---
8	1.82	2.10	4.11	3.14	3.62	---	---	---	2.00	1.89	1.85	---
9	1.82	2.09	3.31	3.96	3.44	---	---	---	1.97	1.88	1.81	---
10	1.79	2.12	2.99	4.83	3.35	---	---	---	1.95	1.88	1.79	---
11	1.77	2.10	3.51	4.28	---	---	---	---	1.94	1.93	1.78	---
12	1.76	2.08	5.37	3.57	---	---	---	---	1.93	2.16	1.76	---
13	1.74	2.08	4.84	3.62	---	---	---	---	1.98	2.40	1.84	---
14	1.73	2.15	3.70	8.66	7.45	---	---	---	5.27	2.18	1.88	---
15	1.72	2.20	3.27	8.38	4.89	---	---	---	6.38	2.07	1.81	---
16	1.75	2.27	3.05	5.02	4.25	3.37	---	---	4.25	2.02	1.86	---
17	1.77	2.24	2.91	4.03	3.92	3.29	---	---	3.58	1.97	1.94	---
18	1.75	2.23	2.81	3.64	3.72	3.25	---	---	3.07	1.93	2.81	---
19	1.75	2.25	2.88	3.41	3.58	3.20	---	---	2.76	1.91	2.78	---
20	1.81	2.31	7.02	3.27	3.36	3.17	---	---	2.55	2.06	3.18	1.84
21	1.82	2.44	5.83	3.21	3.34	3.13	---	---	2.41	2.17	2.95	2.11
22	1.84	2.48	4.04	3.15	3.31	3.10	---	---	2.32	2.03	2.59	2.00
23	1.85	2.42	3.44	3.20	3.22	3.04	---	---	2.26	1.93	2.48	1.91
24	1.83	2.40	3.18	3.49	5.02	3.03	---	---	2.20	1.87	2.26	1.85
25	1.84	2.40	3.10	3.52	10.67	3.04	---	---	2.15	1.84	2.13	1.79
26	1.82	2.46	3.11	3.53	5.60	3.12	---	---	2.12	1.83	2.06	1.75
27	1.83	2.72	3.02	3.38	4.21	5.02	---	---	2.09	2.30	1.99	1.72
28	1.88	2.80	2.97	3.25	3.71	9.73	---	---	2.06	2.26	1.97	1.68
29	1.96	2.84	2.94	3.14	---	11.25	2.81	---	2.02	2.16	1.92	1.66
30	2.22	2.84	2.88	3.44	---	7.23	2.76	---	2.00	2.09	1.88	1.64
31	2.37	---	2.83	4.08	---	4.56	---	---	---	2.51	---	---
MEAN	1.87	2.31	3.52	3.81	---	---	---	---	---	2.03	---	---
MAX	2.37	2.84	7.02	8.66	---	---	9.78	3.40	6.38	2.51	3.18	2.11
MIN	1.72	2.08	2.75	2.78	3.22	3.03	2.76	---	1.93	1.83	1.76	1.64

08023000 BAYOU CASTOR NEAR LOGANSPOUT, LA

LOCATION.--Lat 31°58'25", long 93°58'10", in NE¼ sec.1, T.11 N., R.16 W., De Soto Parish, Hydrologic Unit 12010004, near center of span on downstream side of bridge on U.S. Highway 84, 1.7 mi (2.7 km) east of Logansport, and 2.5 mi (4.0 km) upstream from Bayou Grand Cane.

DRAINAGE AREA.--96.5 mi² (249.9 km²).

PERIOD OF RECORD.--October 1955 to September 1971. October 1971 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 171.20 ft (52.182 m) above mean sea level. Prior to Nov. 4, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years (1956-71), 69.3 ft³/s (1.962 m³/s), 9.75 in/yr (248 mm/yr), 50,210 acre-ft/yr (61.91 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Current year: Maximum gage height, 9.85 ft (3.002 m) Feb. 13; minimum, 1.10 ft (0.335 m) Sept. 19. Period of gage-height record 1971-77: Maximum gage height, 21.04 ft (6.413 m) Jan. 25, 1974; minimum, 0.80 ft (0.244 m) Nov. 17, 18, 1971.

Period of discharge record 1955-71: Maximum discharge, 8,030 ft³/s (277 m³/s) Apr. 6, 1956, gage height, 23.33 ft (7.111 m); no flow at times most years.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.06	2.29	2.45	2.18	2.87	2.33	3.22	2.11	2.13	1.68	1.79	1.58
2	2.10	2.24	2.42	2.16	3.30	2.32	3.37	2.49	1.92	1.66	2.31	1.50
3	2.08	2.18	2.41	2.19	3.66	2.32	3.57	2.37	1.98	1.65	2.13	1.43
4	2.00	2.13	2.41	2.26	5.44	6.40	5.85	2.28	1.94	1.64	1.93	1.37
5	1.91	2.03	2.40	2.31	4.87	7.87	6.17	2.20	1.88	1.62	1.80	1.32
6	1.87	1.94	2.56	2.30	3.35	6.80	3.73	2.15	1.83	1.60	1.75	1.28
7	1.80	1.93	3.43	2.34	2.85	3.44	2.94	2.12	1.80	1.56	1.67	1.24
8	1.73	1.91	3.04	2.33	2.62	2.98	2.64	2.11	1.75	1.52	1.62	1.23
9	1.70	1.91	2.68	2.48	2.50	2.76	2.49	2.09	1.71	1.49	1.55	1.27
10	1.62	1.87	2.45	3.24	2.43	2.64	2.40	2.07	1.67	1.46	1.48	1.26
11	1.54	1.84	2.37	3.30	3.08	2.58	2.34	2.06	1.65	1.45	1.44	1.24
12	1.51	1.83	3.51	2.66	7.75	2.59	2.29	2.16	1.64	1.45	1.39	1.22
13	1.51	1.83	3.75	2.46	9.55	2.60	2.25	2.08	1.66	1.42	1.37	1.20
14	1.49	1.90	2.74	5.15	8.80	2.54	2.23	2.05	2.02	2.15	1.39	1.18
15	1.48	1.95	2.48	5.85	3.73	2.48	2.21	2.01	4.75	2.04	1.37	1.17
16	1.48	2.02	2.34	4.13	3.14	2.42	2.19	1.99	3.27	1.91	1.35	1.15
17	1.54	2.11	2.25	3.02	2.85	2.37	2.18	1.97	2.57	1.84	1.33	1.14
18	1.54	2.14	2.20	2.66	2.70	2.35	3.48	1.94	2.43	1.77	1.43	1.12
19	1.53	2.15	2.16	2.50	2.60	2.33	5.40	1.93	2.22	1.74	2.74	1.19
20	1.56	2.19	4.30	2.40	2.52	2.30	3.31	1.92	2.11	1.69	2.31	1.27
21	1.54	2.22	4.43	2.36	2.46	2.28	3.30	1.91	2.02	1.71	2.82	1.43
22	1.54	2.25	3.16	2.34	2.44	2.26	4.07	1.91	1.96	1.92	2.32	1.50
23	1.53	2.28	2.60	2.32	2.41	2.24	2.86	1.90	1.92	1.85	2.33	1.76
24	1.52	2.25	2.40	2.37	2.39	2.21	2.50	1.89	1.88	1.75	2.00	1.68
25	1.53	2.23	2.34	2.48	2.40	2.22	2.35	1.90	1.85	1.68	1.87	1.59
26	1.52	2.23	2.33	2.46	2.38	2.23	2.26	1.89	1.82	1.67	1.88	1.52
27	1.53	2.23	2.32	2.45	2.38	2.70	2.20	2.20	1.78	1.60	1.85	1.44
28	1.55	2.34	2.28	2.38	2.36	5.18	2.17	2.10	1.75	1.93	1.88	1.39
29	1.56	2.40	2.25	2.34	---	7.09	2.15	2.00	1.73	2.09	1.80	1.35
30	1.85	2.42	2.24	2.30	---	7.25	2.12	1.94	1.70	2.00	1.73	1.31
31	2.00	---	2.20	2.44	---	3.31	---	1.90	---	1.87	1.65	---
MEAN	1.67	2.11	2.67	2.71	3.57	3.34	3.01	2.05	2.04	1.72	1.82	1.34
MAX	2.10	2.42	4.43	5.85	9.55	7.87	6.17	2.49	4.75	2.15	2.82	1.76
MIN	1.48	1.83	2.16	2.16	2.36	2.21	2.12	1.89	1.64	1.42	1.33	1.12

08025350 TOLEDO BEND RESERVOIR NEAR BURKEVILLE, TX

LOCATION.--Lat 31°10'25", long 93°33'57", Newton County, Hydrologic Unit 12010004, in powerhouse at right end of Toledo Bend Dam on Sabine River, 15 mi (24 km) northeast of Burkeville, and at mile 156.5 (251.8 km).

DRAINAGE AREA.--7,178 mi² (18,591 km²).

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Sabine River Authority). Prior to July 20, 1967, nonrecording gage read once daily at same site and datum. July 20, 1967, to June 30, 1973, recording gage at south end of spillway 1.6 mi (2.6 km) north of present site and at same datum.

REMARKS.--Reservoir is formed by a rolled earthfill dam. Closure at embankment completed and deliberate impoundment was begun Oct. 3, 1966. Reservoir is operated for hydro-electric power generation and water conservation. Releases during high inflow periods are controlled by eleven 40- by 28-foot (12- by 9-meter) tainter gates. An 8.33- by 12-foot (2.54- by 4-meter) gated conduit through the dam is used for low-flow releases. Two additional 20-inch-diameter (508 mm) conduits, which bypass the larger conduit, may also be used for low-flow releases. Water for turbines is admitted through four 16.75- by 29-foot (5.11- by 9-meter) penstocks and controlled by vertically operated caterpillar-type gates. The capacity table is based on Geological Survey 15-minute quadrangle sheets, scale 1:62,500 with 20-foot (6-meter) contour intervals. For statement regarding regulation by Soil Conservation Service floodwater-retarding structures, see Lake Fork Creek near Quitman (Texas sta 08019000). For statement regarding regulation by upstream reservoirs, see Sabine River near Logansport (sta 08022500). Data regarding the dam and reservoir are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam.....	185.0	--
Design flood.....	175.3	5,102,000
Top of gates.....	173.0	4,660,000
Top of power drawdown storage.....	172.0	4,476,000
Top of power head storage.....	162.2	2,922,000
Crest of spillway (controlled).....	145.0	1,162,000
Lowest gated outlet (invert).....	100.0	4,090

COOPERATION.--Capacity table furnished by Sabine River Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 4,739,000 acre-ft (5.84 km³) Mar. 21, 1969, elevation, 173.42 ft (52.858 m); minimum since initial filling of reservoir in June 1968, 3,517,000 acre-ft (4.34 km³) Oct. 22, 1972, elevation, 166.29 ft (50.685 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,531,000 acre-ft (5.59 km³) May 9, elevation, 172.30 ft (52.517 m); minimum, 3,530,000 acre-ft (4.35 km³) Sept. 30, elevation, 166.37 ft (50.710 m).

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

166.0	3,473,000	171.00	4,297,000
167.0	3,628,000	173.00	4,660,000
169.0	3,953,000		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3705000	3684000	3692000	3826000	3920000	4125000	4336000	4467000	4369000	4189000	3990000	3805000
2	3705000	3683000	3690000	3838000	3928000	4120000	4363000	4482000	4360000	4198000	3979000	3795000
3	3703000	3685000	3684000	3816000	3973000	4219000	4367000	4476000	4347000	4193000	3962000	3786000
4	3690000	3693000	3693000	3808000	3970000	4229000	4381000	4467000	4354000	4193000	3940000	3783000
5	3716000	3673000	3693000	3808000	3973000	4248000	4392000	4476000	4344000	4179000	3928000	3777000
6	3702000	3677000	3737000	3836000	3979000	4262000	4387000	4494000	4336000	4167000	3923000	3767000
7	3712000	3687000	3719000	3809000	3973000	4267000	4387000	4513000	4324000	4158000	3920000	3764000
8	3701000	3675000	3716000	3806000	3980000	4274000	4387000	4522000	4308000	4144000	3904000	3756000
9	3693000	3677000	3713000	3879000	3982000	4278000	4378000	4527000	4288000	4126000	3887000	3756000
10	3693000	3680000	3724000	3821000	3984000	4259000	4369000	4522000	4280000	4123000	3884000	3751000
11	3693000	3702000	3739000	3821000	4006000	4315000	4360000	4513000	4273000	4116000	3871000	3748000
12	3693000	3693000	3753000	3824000	4024000	4315000	4369000	4494000	4280000	4116000	3859000	3735000
13	3695000	3697000	3758000	3856000	4058000	4308000	4365000	4480000	4259000	4109000	3857000	3737000
14	3693000	3696000	3769000	3882000	4109000	4306000	4360000	4458000	4257000	4106000	3857000	3733000
15	3695000	3693000	3778000	3894000	4101000	4313000	4354000	4444000	4271000	4101000	3838000	3719000
16	3705000	3694000	3786000	3915000	4089000	4320000	4369000	4438000	4262000	4089000	3834000	3714000
17	3696000	3689000	3798000	3907000	4089000	4271000	4395000	4431000	4254000	4081000	3821000	3705000
18	3689000	3683000	3809000	3956000	4103000	4315000	4401000	4426000	4259000	4084000	3867000	3705000
19	3710000	3693000	3826000	3922000	4128000	4333000	4404000	4426000	4254000	4072000	3849000	3712000
20	3690000	3701000	3864000	3925000	4109000	4306000	4444000	4408000	4248000	4058000	3861000	3703000
21	3684000	3703000	3838000	3925000	4109000	4351000	4446000	4428000	4241000	4048000	3862000	3695000
22	3668000	3694000	3838000	3923000	4092000	4288000	4472000	4422000	4236000	4043000	3854000	3686000
23	3661000	3690000	3838000	3933000	4137000	4280000	4467000	4422000	4233000	4035000	3854000	3661000
24	3684000	3685000	3829000	3925000	4132000	4283000	4449000	4419000	4224000	4033000	3854000	3649000
25	3688000	3668000	3902000	3915000	4126000	4283000	4449000	4408000	4224000	4021000	3849000	3642000
26	3677000	3682000	3856000	3904000	4194000	4259000	4440000	4404000	4215000	4024000	3831000	3631000
27	3683000	3706000	3846000	3904000	4149000	4280000	4422000	4390000	4222000	4030000	3829000	3619000
28	3673000	3714000	3871000	3920000	4126000	4288000	4415000	4378000	4219000	4004000	3838000	3596000
29	3690000	3693000	3838000	3897000	---	4302000	4419000	4372000	4207000	3996000	3834000	3570000
30	3693000	3686000	3895000	3922000	---	4324000	4431000	4367000	4193000	3990000	3821000	3535000
31	3685000	---	3838000	3917000	---	4333000	---	4369000	---	3994000	3813000	---
(†)	167.03	167.04	168.30	168.78	170.02	171.20	171.75	171.40	170.40	169.24	168.15	166.37
(*)	+22000	+1000	+152000	+79000	+209000	+207000	+98000	-62000	-176000	-199000	-181000	-278000
MAX	3716000	3714000	3902000	3956000	4194000	4351000	4472000	4527000	4369000	4198000	3990000	3805000
MIN	3661000	3668000	3684000	3806000	3920000	4120000	4336000	4367000	4193000	3990000	3813000	3535000

CAL YR 1976 MAX 4559000 MIN 3661000 * -49000
WTR YR 1977 MAX 4527000 MIN 3535000 * -128000

† Elevation, in feet, at end of month.

* Change in contents, in acre-feet.

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 (16 km) upstream from Sabine River near Burkeville gage, and at mile 156.5 (251.8 km).

DRAINAGE AREA.--7,178 mi² (18,591 km²).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorders. Datum of gages is at mean sea level (levels by Sabine River Authority).

REMARKS.--Water-discharge records fair. Low flows are based on operation logs and discharge measurements and include tainter gate releases, turbine leakage, and low-flow sluiceway discharges. Discharges during turbine release periods are based on scroll case differential pressure-discharge relationships. Discharges above 16,000 ft³/s (453 m³/s) usually include tainter gate releases, which are computed using tainter gate rating.

AVERAGE DISCHARGE.--6 years (water years 1972-77), 6,348 ft³/s (179.8 m³/s), 4,599,000 acre-ft/yr (5.67 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 67,000 ft³/s (1,900 m³/s) Jan. 28, 1974; minimum daily, 30 ft³/s (0.85 m³/s) estimated Oct. 1-4, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 10,700 ft³/s (303 m³/s) Feb. 17, 20, Mar. 14, 15; minimum daily, 34 ft³/s (0.96 m³/s) estimated Dec. 14-16, Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	83	97	4780	96	8870	8600	56	4090	4030	4950	5040
2	93	96	97	4920	110	8760	8650	4300	4130	90	5100	4920
3	93	96	97	4920	87	7340	8500	4110	4180	90	4800	4990
4	97	91	97	3700	3720	8710	9500	3970	89	90	4420	89
5	97	96	97	2280	3640	8990	10100	3930	89	4160	5070	4630
6	93	96	97	2280	3490	8880	10200	5540	4140	4020	4940	5140
7	93	96	97	3070	3570	8900	9990	5940	4790	4100	89	5270
8	93	96	97	93	3740	8590	10000	5880	4220	4260	4970	4990
9	93	96	97	93	3670	10300	10100	5870	4220	90	5000	5160
10	93	96	97	6860	3610	10400	10200	5960	4220	90	4910	4620
11	97	96	97	3010	3520	10200	8710	5870	89	1940	4990	89
12	850	96	97	105	3640	10600	8450	5830	89	3200	5000	5200
13	1180	96	97	97	3360	10600	8540	5690	4240	3210	4830	4770
14	1300	96	34	97	6940	10700	8460	5610	4260	3300	89	4690
15	1280	96	34	97	6990	10700	8340	5620	4300	3200	4990	4880
16	93	96	34	97	8840	5540	8620	3990	4370	90	5160	5080
17	93	96	97	3150	10700	6110	8230	4080	4270	90	5000	4650
18	1310	992	97	1270	10600	10600	8180	56	89	3380	4850	89
19	1290	97	97	3270	10600	10100	9950	56	89	4970	4910	4940
20	93	97	3190	3410	10700	10100	10000	3950	4230	4330	4600	4900
21	93	97	5020	3340	9170	10600	10400	56	3340	4250	89	4940
22	93	1160	4940	3030	7050	10500	10200	56	4080	4390	5220	4940
23	93	3160	4990	3010	7070	8110	10000	3800	4140	90	4900	5030
24	93	3090	4960	4570	7310	7890	10000	4040	4260	90	4900	4710
25	99	3130	2790	6330	7050	8530	10000	4090	90	4290	5260	89
26	93	3090	122	6530	7200	9240	10100	4030	90	4420	4900	5250
27	93	97	2150	6610	7130	9110	7120	4130	4290	4480	4830	5210
28	93	97	2780	3460	8530	9260	6480	56	4290	4370	89	5140
29	93	97	4970	3280	---	8920	6170	56	4130	4120	4930	5120
30	93	97	5000	34	---	9090	5110	4100	4190	90	4350	5150
31	93	---	4900	97	---	8640	---	3990	---	90	4380	---
TOTAL	9549	16915	47466	87890	162133	284880	268900	114712	93094	79410	132516	129716
MEAN	308	564	1531	2835	5790	9190	8963	3700	3103	2562	4275	4324
MAX	1310	3160	5020	6860	10700	10700	10400	5960	4790	4970	5260	5270
MIN	93	83	34	34	87	5540	5110	56	89	90	89	89
AC-FT	18940	33550	94150	174300	321600	565100	533400	227500	184700	157500	262800	257300

CAL YP 1976 TOTAL 1380133 MEAN 3771 MAX 19900 MIN 34 AC-FT 2737000
WTR YR 1977 TOTAL 1427181 MEAN 3910 MAX 10700 MIN 34 AC-FT 2831000

08025360 SABINE RIVER AT TOLEDO BEND RESERVOIR NEAR BURKEVILLE, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

REMARKS.--Data furnished by Texas District.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT 19...	1420	189	6.9	19.0	8.0	89	.8	37	13
DEC 28...	1630	189	6.9	12.0	9.1	88	.6	37	11
FEB 17...	1630	198	7.0	10.5	11.6	107	.3	39	14
APR 12...	1345	205	7.0	17.0	9.8	104	.4	41	12
JUN 15...	1030	211	5.6	17.0	5.6	60	.7	39	9
AUG 24...	1040	218	7.0	19.0	3.0	33	1.0	45	12

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 19...	10	3.0	18	1.3	2.6	30	0	16	27
DEC 28...	9.4	3.3	21	1.5	2.7	32	0	17	27
FEB 17...	9.1	4.0	20	1.4	3.0	31	0	17	29
APR 12...	10	3.9	20	1.4	3.2	35	0	16	29
JUN 15...	10	3.5	22	1.5	2.8	37	0	16	29
AUG 24...	12	3.6	24	1.6	3.0	40	0	18	38

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT 19...	.2	3.9	95	.00	.00	.02	.29	.01
DEC 28...	.0	6.8	103	.11	.00	.02	.23	.04
FEB 17...	.1	5.4	103	.10	.00	.00	.30	.01
APR 12...	.1	5.8	105	.16	.00	.03	.41	.01
JUN 15...	.1	7.9	110	.13	.01	.05	.28	.02
AUG 24...	.1	9.1	128	.00	.01	.02	.45	.00

SABINE RIVER BASIN

08025500 BAYOU TORO NEAR TORO, LA

LOCATION.--Lat 31°18'25", long 95°30'56", in SW¼ 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 (0.3 km) upstream from Hamby Creek, 2.5 mi (0.8 km) northeast of Toro, and 7.8 mi (12.5 km) west of Hornbeck.

DRAINAGE AREA.--148 mi² (383 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 138.00 ft (42.062 m) above mean sea level (Louisiana Geodetic Survey bench mark; levels by Louisiana Department of Transportation and Development, Office of Public Works).

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--22 years, 137 ft³/s (3.880 m³/s), 12.57 in/yr (319 mm/yr), 99,260 acre-ft/yr (122 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft³/s (883 m³/s) Apr. 9, 1968, gage height, 25.73 ft (7.842 m) from rating curve extended above 13,000 ft³/s (368 m³/s); minimum, 0.1 ft³/s (0.003 m³/s) Sept. 29, 30, Oct. 1-3, 1956; minimum gage height, 2.40 ft (0.732 m) Sept. 30, Oct. 1, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Mar. 4	0145	*2880	81.6	*14.71	4.484	Apr. 1	0300	1370	38.8	10.44	3.182

Minimum discharge, 3.6 ft³/s (0.10 m³/s) Aug. 4, gage height, 2.75 ft (0.838 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	31	57	55	114	37	1290	57	15	5.8	6.1	26
2	19	20	37	54	105	35	1240	313	18	5.5	5.2	17
3	14	15	30	106	745	643	734	377	14	5.5	4.2	17
4	11	12	26	149	985	2480	291	130	12	5.2	3.6	12
5	9.4	11	23	147	603	2170	266	83	11	5.5	4.2	9.0
6	8.8	10	109	118	222	1630	178	66	10	8.1	3.9	7.8
7	8.0	10	460	118	137	372	120	56	11	5.5	4.2	6.7
8	8.1	10	352	126	107	210	98	50	12	4.9	4.9	6.7
9	8.0	10	103	405	92	160	86	44	10	4.5	6.1	12
10	7.8	11	68	634	84	137	77	40	9.3	4.9	6.8	66
11	7.9	12	73	292	126	165	69	36	9.3	4.9	8.1	76
12	8.0	18	315	133	276	516	63	33	8.9	5.8	5.5	38
13	7.5	27	499	107	331	461	57	30	8.9	5.2	11	21
14	7.3	33	239	452	187	205	52	28	10	9.3	18	14
15	7.1	27	119	586	117	144	49	26	26	12	17	11
16	8.3	36	99	244	91	119	51	24	52	14	35	9.8
17	8.7	25	79	137	77	104	69	23	57	7.6	26	9.4
18	8.2	24	64	104	71	94	132	21	42	5.5	265	8.5
19	9.2	41	56	89	67	89	227	20	29	12	501	9.0
20	9.2	56	87	80	61	89	132	20	19	13	142	13
21	8.2	50	226	74	56	84	356	19	15	12	64	14
22	8.1	35	131	69	52	75	378	18	12	10	44	15
23	8.6	26	82	67	52	67	149	17	11	8.1	31	11
24	8.9	22	67	85	51	63	93	16	9.7	6.8	29	8.5
25	9.5	24	129	124	50	66	71	16	8.9	6.1	39	7.4
26	9.8	26	598	100	46	66	59	15	8.1	5.5	42	7.1
27	10	34	349	82	42	67	50	15	7.2	7.2	28	6.3
28	11	50	127	74	39	226	44	14	6.8	6.8	23	6.0
29	12	77	93	68	---	381	39	13	6.5	15	39	5.6
30	22	106	76	62	---	181	36	12	6.1	11	22	4.9
31	40	---	64	93	---	174	---	12	---	8.1	27	---
TOTAL	355.6	889	4837	5034	4986	11310	6556	1644	475.7	241.3	1465.8	475.7
MEAN	11.5	29.6	156	162	178	365	219	53.0	15.9	7.78	47.3	15.9
MAX	40	106	598	634	985	2480	1290	377	57	15	501	76
MIN	7.1	10	23	54	39	35	36	12	6.1	4.5	3.6	4.9
CFSM	.08	.20	1.05	1.09	1.20	2.47	1.48	.36	.11	.05	.32	.11
IN.	.09	.22	1.22	1.27	1.25	2.84	1.65	.41	.12	.06	.37	.12
AC-FT	705	1760	9590	9980	9890	22430	13000	3260	944	479	2910	944
CAL YR 1976	TOTAL	49183.8										
WTR YR 1977	TOTAL	38270.1	MEAN 134	MAX 1850	MIN 6.8	CFSM .91	IN 12.36	AC-FT	97560			
			MEAN 105	2480	MIN 3.6	CFSM .71	IN 9.62	AC-FT	75910			

08025500 BAYOU TORO NEAR TORO, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.60	3.59	3.97	3.94	4.71	3.65	10.16	3.84	---	2.83	2.84	3.23
2	3.35	3.36	3.70	3.92	4.61	3.62	9.96	5.91	---	2.82	2.81	3.07
3	3.23	3.24	3.57	4.61	7.76	6.39	7.94	6.37	---	2.82	2.78	3.07
4	3.12	3.17	3.49	5.04	9.02	13.68	5.92	4.70	---	2.81	2.76	2.97
5	3.09	3.13	3.44	5.03	7.40	12.87	5.77	4.14	---	2.82	2.78	2.91
6	3.07	3.11	4.20	4.76	5.54	11.18	5.18	3.89	---	2.89	2.77	2.88
7	3.04	3.11	6.72	4.76	4.93	6.32	4.68	3.73	---	2.82	2.78	2.85
8	3.05	3.11	6.21	4.84	4.63	5.40	4.43	3.63	---	2.80	2.80	2.85
9	3.04	3.11	4.57	6.42	4.45	5.03	4.27	3.55	2.94	2.79	2.84	2.97
10	3.04	3.13	4.12	7.57	4.33	4.83	4.15	3.49	2.92	2.80	2.86	3.87
11	3.04	3.15	4.17	5.91	4.79	5.01	4.04	3.42	2.92	2.80	2.89	4.03
12	3.04	3.32	6.00	4.90	5.85	7.04	3.95	3.36	2.91	2.83	2.82	3.44
13	3.03	3.51	6.96	4.63	6.15	6.77	3.86	3.31	2.91	2.81	2.96	3.14
14	3.02	3.63	5.62	6.72	5.30	5.36	3.79	3.28	2.94	2.92	3.12	3.02
15	3.01	3.52	4.77	7.35	4.74	4.89	3.74	3.25	3.26	2.99	3.10	2.96
16	3.05	3.68	4.53	5.66	4.43	4.65	3.77	3.23	3.67	3.02	3.41	2.93
17	3.07	3.46	4.27	4.93	4.25	4.47	4.03	3.20	3.74	2.88	3.26	2.92
18	3.05	3.46	4.06	4.60	4.16	4.35	4.65	3.18	3.52	2.82	4.84	2.90
19	3.08	3.75	3.94	4.41	4.10	4.29	5.50	3.16	3.28	2.97	6.93	2.91
20	3.08	3.96	4.35	4.28	4.02	4.29	4.76	3.14	3.13	3.01	4.80	3.00
21	3.05	3.88	5.57	4.19	3.94	4.22	6.21	3.13	3.04	2.98	3.85	3.01
22	3.05	3.66	4.86	4.13	3.89	4.10	6.38	3.11	2.99	2.94	3.55	3.04
23	3.06	3.49	4.31	4.10	3.88	3.99	4.93	3.10	2.96	2.89	3.34	2.95
24	3.07	3.41	4.09	4.35	3.86	3.93	4.36	3.08	2.93	2.86	3.29	2.90
25	3.09	3.45	4.67	4.82	3.85	3.97	4.07	3.07	2.91	2.84	3.47	2.87
26	3.10	3.50	7.41	4.54	3.79	3.97	3.89	3.05	2.89	2.82	3.51	2.86
27	3.12	---	6.20	4.31	3.73	3.99	3.76	3.03	2.87	2.86	3.28	2.84
28	3.13	---	4.84	4.20	3.68	5.40	3.66	3.02	2.86	2.86	3.20	2.83
29	3.17	4.17	4.46	4.11	---	6.40	3.59	3.00	2.85	3.05	3.32	2.82
30	3.41	4.43	4.23	4.03	---	5.17	3.54	2.99	2.84	2.97	3.18	2.80
31	3.72	---	4.06	4.46	---	4.91	---	2.98	---	2.89	3.25	---
MEAN	3.13	---	4.75	4.89	4.85	5.62	4.96	3.53	---	2.88	3.34	3.03
MAX	3.72	4.43	7.41	7.57	9.02	13.68	10.16	6.37	3.74	3.05	6.93	4.03
MIN	3.01	3.11	3.44	3.92	3.68	3.62	3.54	2.98	2.84	2.79	2.76	2.80

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 (61 m) downstream from Pearl Creek, 10 mi (16 km) northeast of Burkeville, 16 mi (26 km) downstream from Bayou Toro, and at mile 139.7 (224.8 km).

DRAINAGE AREA.--7,482 mi² (19,378 km²).

PERIOD OF RECORD.--September 1955 to current year. Published as "below Toledo Bend near Burkeville" for 1955-75.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 70.59 ft (21.516 m) above mean sea level. Prior to Aug. 23, 1958, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair. Flow regulated by Toledo Bend Reservoir (station 08025350) 16.8 mi (27.0 km) upstream, capacity 4,660,000 acre-ft (5.75 km³).

AVERAGE DISCHARGE.--11 years (water years 1956-66) prior to completion of Toledo Bend Reservoir, 4,653 ft³/s (131.8 m³/s), 3,371,000 acre-ft/yr (4.16 km³/yr); 11 years (water years 1967-77) regulated, 5,134 ft³/s (145.4 m³/s), 3,720,000 acre-ft/yr (4.59 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 80,600 ft³/s (2,280 m³/s) Jan. 29, 1974, gage height, 34.20 ft (10.424 m); minimum daily, 38 ft³/s (1.08 m³/s) Sept. 14, 15, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1860, 35.9 ft (10.94 m) in May 1884, from information by local resident. Flood of Apr. 15, 1945, reached a stage of 35.8 ft (10.91 m), and flood of May 23, 1953, reached a stage of 35.3 ft (10.76 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,200 ft³/s (430 m³/s) Mar. 4, gage height, 18.23 ft (5.557 m); minimum daily, 118 ft³/s (3.34 m³/s) Nov. 8, July 4.

DISCHARGE* IN CUBIC FEET PER SECOND* WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3480	185	282	5040	487	9050	9570	1950	4220	4210	2380	4890
2	363	157	240	5040	402	8270	9800	2580	4260	2160	4800	4900
3	254	151	194	5040	1250	8720	9270	4850	4300	191	4770	4820
4	185	147	185	3990	4620	12000	9230	4500	2170	118	4670	3450
5	174	131	183	2990	4970	11500	9730	4270	235	2280	4470	1450
6	153	123	287	2990	4360	10700	10300	5390	2330	4160	4840	4570
7	141	119	893	2990	3990	9630	10000	5780	4320	4120	2660	4940
8	139	118	792	1000	3890	8730	10000	5880	4580	4220	2500	5020
9	139	131	556	506	3810	9480	9970	5910	4210	2170	4890	5060
10	135	133	344	6070	3910	10100	10000	5920	4230	185	4740	4960
11	131	141	290	3990	4030	10000	9090	5950	2170	1010	4820	3330
12	396	191	564	691	4400	11300	7740	5830	235	2860	4840	1750
13	1440	176	968	376	4080	11000	8230	5760	2350	3320	4840	4870
14	1350	185	736	854	5750	10700	8210	5770	4230	3440	3370	5620
15	1370	185	480	917	6940	10500	8140	5650	4490	3440	1640	4780
16	622	167	335	704	8590	8270	8110	4730	4450	1550	4760	4880
17	149	165	276	2130	10000	4210	8080	4270	4410	183	4850	4680
18	588	498	273	2940	10100	9870	8130	2090	2220	2000	4940	2110
19	1220	656	240	2880	10000	9930	9310	228	259	4040	5340	2870
20	584	284	1180	3780	10200	9630	10400	2210	2370	4580	4990	4720
21	187	262	4690	3730	10000	9980	10800	1880	3630	4320	3570	4700
22	165	754	5040	3580	7200	10000	10700	201	3960	4350	1690	4690
23	157	2460	5040	3470	7170	9090	10200	1900	4240	2200	4970	4740
24	151	3050	5040	3890	7170	7940	10100	4210	4260	198	4890	4580
25	149	3070	2990	6320	7140	8140	9910	4200	2190	2240	5440	2170
26	159	3140	699	6530	7160	8400	9840	4210	210	4330	4900	2880
27	149	1340	2030	6720	7140	8420	8060	4230	2330	4480	4830	4990
28	141	332	2990	5580	7360	8780	6770	2130	4250	4490	3550	5000
29	170	366	3990	2850	---	8890	6390	228	4290	4310	1630	4950
30	273	302	5040	1710	---	8780	6350	2340	4210	2230	4730	4920
31	217	---	5040	514	---	8510	---	4090	---	187	4320	---
TOTAL	14931	19119	51887	99812	166119	290520	272430	119137	95609	83572	129630	127290
MEAN	482	637	1674	3220	5933	9372	9081	3843	3187	2696	4182	4243
MAX	3480	3140	5040	6720	10200	12000	10400	5950	4580	4580	5440	5620
MIN	131	118	183	376	402	4210	6350	201	210	118	1630	1450
AC-FT	29620	37920	102900	198000	329500	576200	540400	236300	189600	165800	257100	252500
CAL YR 1976 TOTAL	1435597			3922		18700		118		2848000		
WTR YR 1977 TOTAL	1470056			4028		12000		118		2916000		

08026000 SABINE RIVER NEAR BURKEVILLE, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1968 to current year.

WATER TEMPERATURES: May 1968 to current year.

REMARKS.--Data furnished by Texas District.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 352 micromhos Mar. 15, 16, 1973; minimum, 31 micromhos Dec. 7, 1975.

WATER TEMPERATURES: (water years 1968-76) Maximum, 32.0°C Aug. 20, 1975; minimum, 5.0°C Jan. 8, 10, 1970, Jan. 9, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 227 micromhos Aug. 15; minimum, 57 micromhos Dec. 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA+MG) (MG/L)
OCT 19...	1500	1400	187	7.3	19.0	30	20	8.6	96	1.0	36
DEC 28...	1715	3400	179	7.0	12.0	30	8	9.8	94	.8	36
FEB 17...	1715	11600	197	6.7	11.0	30	10	11.8	110	.2	39
APR 12...	1455	7500	199	7.0	17.0	20	5	10.0	106	.6	39
JUN 15...	0915	2500	201	7.0	23.0	20	10	9.2	110	.7	37
AUG 24...	0945	2740	200	7.1	28.0	20	8	6.8	87	5.0	37

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT 19...	12	9.7	2.9	18	1.3	2.7	30	0	15	26	.2
DEC 28...	13	9.0	3.2	18	1.3	2.6	28	0	16	25	.2
FEB 17...	14	9.2	3.9	19	1.3	3.0	31	0	17	28	.1
APR 12...	12	10	3.5	20	1.4	3.1	33	0	16	28	.1
JUN 15...	13	9.4	3.3	20	1.4	2.7	29	0	17	29	.1
AUG 24...	13	9.8	3.1	22	1.6	2.8	30	0	19	32	.1

DATE	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	VOL. NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 19...	5.5	95	29	11	.01	.00	.04	.46	.03	5.2
DEC 28...	5.3	93	14	6	.10	.00	.01	.32	.03	7.5
FEB 17...	5.4	101	23	14	.07	.00	.00	.40	.01	9.8
APR 12...	6.8	104	17	10	.15	.00	.01	.32	.02	6.2
JUN 15...	6.7	103	14	2	.03	.01	.02	.28	.03	7.1
AUG 24...	7.8	111	13	12	.00	.01	.01	.93	.11	4.8

08026000 SABINE RIVER NEAR BURKEVILLE, TX--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT 19...	1500	0	100	--	0	0	30
DEC 28...	1715	1	100	0	5	0	40
APR 12...	1455	1	100	0	1	0	50
JUN 15...	0915	0	0	0	0	1	50

DATE	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 19...	1	0	.1	0	0	10
DEC 28...	3	10	.2	0	0	20
APR 12...	0	0	.2	0	0	10
JUN 15...	1	0	.0	0	0	20

MONTHLY AND ANNUAL MEANS AND LOADS

MONTH	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	DIS- SOLVED SOLIDS (MG/L)	DIS- SOLVED SOLIDS (TONS)	DIS- SOLVED CHLORIDE (MG/L)	DIS- SOLVED CHLORIDE (TONS)	DIS- SOLVED SULFATE (MG/L)	DIS- SOLVED SULFATE (TONS)	HARDNESS (CA, MG) (MG/L)
OCT. 1976.....	14931	166	88	3540	22	900	14	573	34
NOV. 1976.....	19119	162	85	4390	22	1130	14	716	33
DEC. 1976.....	51887	158	84	11800	21	2970	14	1920	32
JAN. 1977.....	99812	181	94	25200	25	6610	15	4150	37
FEB. 1977.....	166119	193	99	44200	26	11900	16	7230	39
MAR. 1977.....	290520	192	98	76800	26	20600	16	12700	39
APR. 1977.....	272430	202	100	73500	28	20300	17	12500	41
MAY 1977.....	119137	203	100	33100	28	8980	17	5460	41
JUNE 1977.....	95609	210	110	27600	29	7450	18	4530	42
JULY 1977.....	83572	216	110	24300	30	6720	18	4030	43
AUG. 1977.....	129630	209	110	37200	29	10100	17	6110	42
SEPT 1977.....	127290	208	110	36300	28	9790	17	5940	42
TOTAL	1470056	**	**	398000	**	107000	**	65900	**
WTD.AVG.	4027.55	198	100	**	27	**	17	**	40

08026000 SABINE RIVER NEAR BURKEVILLE, TX--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	125	128	189	122	196	194	200	217	204	204	208
2	166	126	131	188	130	196	200	197	213	208	215	210
3	149	124	124	189	99	154	203	195	213	209	215	211
4	139	125	100	189	191	153	202	193	195	195	217	213
5	134	128	90	189	190	189	202	193	187	183	216	218
6	145	129	94	189	191	188	193	199	178	222	215	215
7	144	137	94	189	190	193	203	199	212	223	216	214
8	146	140	89	167	191	192	203	206	214	203	216	214
9	142	144	100	91	192	190	202	208	215	203	215	215
10	141	131	122	186	194	193	199	199	215	202	215	216
11	147	130	60	186	194	191	201	209	210	189	217	217
12	166	132	63	119	192	192	198	209	186	221	217	219
13	177	132	63	110	193	190	197	209	214	222	217	218
14	188	134	57	97	195	191	197	208	206	220	216	219
15	179	135	123	101	196	197	201	207	197	215	227	221
16	153	135	124	120	195	193	202	202	200	215	221	221
17	148	126	92	184	195	195	198	198	215	214	222	222
18	144	175	92	187	197	197	200	202	209	215	216	222
19	172	175	171	187	194	196	204	189	171	217	212	221
20	168	128	177	183	195	198	204	189	166	218	164	221
21	164	129	183	181	196	197	204	202	220	221	217	221
22	153	167	170	182	196	199	204	192	220	221	220	217
23	140	168	174	185	185	198	205	188	218	221	215	225
24	141	183	188	189	196	200	203	212	218	222	202	180
25	134	203	152	193	198	199	205	212	222	222	190	180
26	149	141	152	197	198	197	205	209	220	223	194	179
27	149	136	124	190	198	199	205	213	221	226	195	179
28	140	127	121	189	196	200	204	208	215	222	197	179
29	133	127	155	105	---	201	204	187	217	215	200	179
30	111	138	187	105	---	201	204	189	206	204	204	179
31	138	---	189	108	---	201	---	213	---	208	206	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	15.5	6.5	8.0	4.5	9.5	14.5	21.5	27.5	29.0	30.0	---
2	29.0	14.0	7.0	7.0	5.0	9.0	14.0	---	26.0	30.0	---	---
3	28.5	13.5	8.5	7.5	---	9.5	15.0	---	26.0	31.0	29.5	---
4	26.5	13.0	---	9.0	7.0	10.0	15.0	26.0	29.0	31.0	---	---
5	26.0	13.5	8.5	7.5	6.5	10.0	15.5	26.0	---	29.5	---	---
6	22.0	13.5	8.0	7.5	---	10.5	14.5	22.5	30.5	28.5	---	---
7	20.0	14.5	8.0	8.0	---	10.0	15.5	22.5	28.5	28.5	---	---
8	20.0	---	8.5	7.5	---	---	14.5	22.5	---	28.5	---	---
9	20.5	11.5	7.0	---	7.0	---	15.0	27.0	22.5	28.5	---	---
10	22.5	13.5	10.0	7.0	7.0	---	15.5	26.5	27.5	29.0	28.5	---
11	---	---	9.5	6.5	7.0	---	16.0	24.5	30.0	29.0	28.0	---
12	22.0	9.5	9.0	5.0	7.0	---	16.5	24.5	27.5	28.0	28.0	---
13	22.5	9.5	9.5	---	---	---	17.0	25.0	26.0	27.0	28.0	---
14	23.0	9.5	8.5	6.0	8.0	12.0	17.5	---	---	26.5	28.0	25.5
15	---	8.5	10.5	6.5	8.0	13.0	17.0	22.5	30.5	27.0	28.0	25.5
16	---	8.5	9.5	---	8.5	12.0	20.0	24.5	24.0	28.0	27.5	26.0
17	---	9.5	10.5	5.5	8.0	---	20.0	23.5	25.5	29.0	27.5	26.0
18	---	9.5	11.0	5.5	9.0	13.0	21.0	24.0	24.5	29.0	27.5	27.0
19	---	11.5	9.0	5.5	8.5	---	20.5	25.0	29.0	29.0	27.5	27.0
20	---	12.0	---	---	8.5	13.0	19.0	25.5	30.5	28.0	28.0	27.0
21	---	13.0	9.0	6.0	9.0	---	19.0	22.0	28.5	29.0	27.0	27.0
22	---	11.0	8.0	5.5	9.0	---	20.0	25.0	27.0	29.0	29.0	26.5
23	---	9.0	8.5	---	11.0	---	21.0	26.0	27.5	29.0	27.0	27.0
24	---	10.0	8.5	---	9.5	---	21.0	26.0	26.0	29.0	27.0	26.5
25	---	11.5	8.0	---	9.0	---	21.5	25.5	27.0	---	---	27.0
26	---	12.5	8.0	6.0	9.0	---	21.0	25.5	27.5	---	---	26.5
27	---	12.5	9.0	7.5	7.5	---	22.0	27.5	27.5	---	---	27.0
28	---	9.0	9.0	7.0	9.5	---	22.5	28.5	29.0	---	---	27.0
29	---	7.0	---	7.0	---	14.0	22.0	27.5	29.0	---	---	26.5
30	---	7.0	11.5	5.0	---	14.0	22.0	29.0	29.0	---	---	27.0
31	15.0	---	9.0	5.0	---	14.0	---	27.5	---	30.0	---	---

08028000 BAYOU ANACOCO NEAR ROSEFINE, LA

LOCATION.--Lat 30°57'10", long 93°21'10", on line between secs. 25 and 26, T.1 S., R.10 W., Vernon Parish, 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 (7.7 km) northwest of Rosepine.

DRAINAGE AREA.--365 mi² (945 km²).

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 (35.994 m) above mean sea level, unadjusted. Prior to Nov. 11, 1954, non-recording gage at same site and datum.

REMARKS.--Records good. Some effect from storage in Anacoco Lake (usable capacity 41,300 acre-ft or 50.9 hm³) except January 1956 to September 1958 and Vernon Lake (usable capacity 58,000 acre-ft or 71.5 hm³) since May 1963. Records of dissolved oxygen and water temperatures for water year 1977 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--26 years, 434 ft³/s (12.29 m³/s), 16.15 in/yr (410 mm/yr), 314,400 acre-ft/yr (388 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,300 ft³/s (1,820 m³/s) May 19, 1953, gage height, 28.38 ft (8.650 m); minimum, 5.5 ft³/s (0.16 m³/s) Sept. 30, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,070 ft³/s (86.9 m³/s) Mar. 6, gage height, 17.12 ft (5.218 m); minimum discharge, 13 ft³/s (0.37 m³/s) Sept. 5, 6, 7. Minimum gage height, 2.78 ft (0.847 m) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	43	134	193	652	128	765	302	26	368	22	22
2	24	33	104	168	507	119	1090	900	33	362	17	20
3	21	26	90	378	1400	195	1280	980	37	198	33	18
4	18	23	80	473	2300	2170	1180	590	31	52	112	16
5	18	20	75	427	1710	2740	945	398	27	30	128	14
6	18	19	107	377	1150	3000	720	312	26	27	123	14
7	18	19	452	467	868	2700	546	248	25	27	128	13
8	17	17	524	477	678	1600	425	209	26	20	122	31
9	18	17	400	882	542	971	345	182	24	20	121	118
10	17	17	329	1610	447	730	285	161	22	20	93	244
11	17	20	286	1370	440	684	234	127	22	19	30	84
12	16	30	387	863	469	1990	202	101	22	18	22	50
13	15	64	640	664	513	2100	180	88	22	16	23	51
14	15	56	556	1180	500	1780	158	76	37	17	26	206
15	14	52	490	1430	456	1000	145	67	52	16	41	82
16	24	42	460	1050	384	763	165	60	68	15	37	56
17	29	34	398	748	323	600	187	54	78	22	23	41
18	24	31	325	582	282	473	180	50	57	15	35	33
19	18	39	274	475	260	418	167	47	45	31	59	33
20	16	73	348	384	240	379	777	45	37	27	44	69
21	16	103	432	328	210	321	2160	44	167	46	40	52
22	15	91	350	286	187	283	1590	44	409	55	44	39
23	15	71	283	270	171	240	859	43	416	35	70	30
24	15	60	250	318	191	212	586	41	413	24	139	26
25	16	54	240	318	181	250	431	37	411	18	92	23
26	16	60	580	294	159	232	323	38	405	32	55	21
27	16	81	460	268	158	232	254	37	398	78	38	20
28	16	118	360	248	145	1030	199	33	391	107	31	18
29	31	254	297	246	---	1480	164	30	382	103	29	17
30	93	212	247	209	---	1170	142	28	375	44	27	16
31	69	---	217	515	---	760	---	27	---	29	24	---
TOTAL	709	1779	10175	17498	15523	30750	16684	5399	4484	1891	1828	1477
MEAN	22.9	59.3	328	564	554	992	556	174	149	61.0	59.0	49.2
MAX	93	254	640	1610	2300	3000	2160	980	416	368	139	244
MIN	14	17	75	168	145	119	142	27	22	15	17	13
CFSM	.06	.16	.90	1.55	1.52	2.72	1.52	.48	.41	.17	.16	.13
IN.	.07	.18	1.04	1.78	1.58	3.13	1.70	.55	.46	.19	.19	.15
AC-FT	1410	3530	20180	34710	30790	60990	33090	10710	8690	3750	3630	2930
CAL YR 1976	TOTAL	118266	MEAN 323	MAX 4910	MIN 14	CFSM .88	IN 12.05	AC-FT 234600				
WTR YR 1977	TOTAL	108197	MEAN 296	MAX 3000	MIN 13	CFSM .81	IN 11.03	AC-FT 214600				

SABINE RIVER BASIN

08028000 BAYOU ANACOCO NEAR ROSEFINE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.04	3.13	3.93	4.39	7.01	3.89	7.57	5.02	2.96	5.52	2.91	2.91
2	2.93	3.03	3.69	4.20	6.27	3.82	9.07	8.20	3.03	5.48	2.86	2.89
3	2.88	2.95	3.57	5.56	10.26	4.33	9.96	8.59	3.07	4.35	3.01	2.87
4	2.85	2.92	3.48	6.10	14.33	13.71	9.48	6.69	3.01	---	3.76	2.84
5	2.84	2.89	3.44	5.85	11.83	16.03	8.43	5.69	2.97	---	3.89	2.82
6	2.85	2.88	3.71	5.57	9.37	16.90	7.35	5.18	2.96	---	3.85	2.82
7	2.85	2.88	5.96	6.07	8.06	15.82	6.47	4.77	2.94	---	3.89	2.81
8	2.83	2.86	6.37	6.12	7.14	11.31	5.84	4.49	2.95	---	3.84	3.00
9	2.84	2.86	5.70	8.05	6.45	8.55	5.38	4.31	2.93	---	3.83	3.76
10	2.83	2.86	5.28	11.39	5.96	7.39	5.01	4.15	2.91	---	3.60	4.71
11	2.82	2.89	5.02	10.35	5.92	7.15	4.67	3.88	2.91	---	3.00	3.52
12	2.81	2.99	5.62	8.04	6.08	13.04	4.45	3.67	2.91	---	2.91	3.20
13	2.80	3.34	6.95	7.07	6.31	13.51	4.29	3.55	2.91	---	2.92	3.19
14	2.80	3.26	6.53	9.46	6.24	12.09	4.12	3.45	3.07	---	2.96	4.47
15	2.79	3.22	6.19	10.59	6.01	8.70	4.02	3.36	3.22	---	3.11	3.50
16	2.92	3.12	6.03	8.90	5.60	7.56	4.18	3.30	3.37	---	3.07	3.26
17	2.99	3.04	5.69	7.48	5.25	6.75	4.34	3.24	3.46	---	2.92	3.11
18	2.92	3.01	5.25	6.66	4.99	6.10	4.29	3.20	3.27	---	3.04	3.03
19	2.87	3.09	4.94	6.11	4.85	5.80	4.19	3.17	3.15	---	3.29	3.03
20	2.85	3.42	5.39	5.61	4.71	5.58	7.27	3.15	3.07	---	3.14	3.38
21	2.84	3.68	5.88	5.28	4.51	5.24	13.75	3.14	4.04	---	3.10	3.22
22	2.83	3.58	5.41	5.02	4.34	5.00	11.29	3.14	5.75	---	3.14	3.09
23	2.83	3.40	---	4.91	4.22	4.71	8.01	3.13	5.79	3.05	3.38	3.00
24	2.83	3.30	---	5.22	4.37	4.52	6.68	3.11	5.77	2.93	3.98	2.95
25	2.84	3.24	---	5.22	4.30	4.78	5.86	3.07	5.76	2.87	3.59	2.92
26	2.85	3.30	---	5.07	4.13	4.66	5.25	3.08	5.73	3.02	3.25	2.90
27	2.85	3.49	---	4.90	4.12	4.66	4.81	3.07	5.69	3.45	3.08	2.89
28	2.84	3.80	---	4.77	4.02	8.74	4.43	3.03	5.65	3.68	3.01	2.87
29	2.99	4.81	5.09	4.75	---	10.84	4.17	3.00	5.60	3.66	2.98	2.86
30	3.60	4.51	4.76	4.50	---	9.45	4.00	2.98	5.56	3.13	2.97	2.85
31	3.37	---	4.56	6.28	---	7.55	---	2.97	---	2.99	2.93	---
MEAN	2.90	3.26	---	6.44	6.31	8.33	6.29	4.03	3.88	---	3.26	3.16
MAX	3.60	4.81	6.95	11.39	14.33	16.90	13.75	8.59	5.79	5.52	3.98	4.71
MIN	2.79	2.86	3.44	4.20	4.02	3.82	4.00	2.97	2.91	---	2.86	2.81

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 (1.1 km) upstream from Quicksand Creek, 0.8 mi (1.3 km) upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.0 mi (3.2 km) east of Bon Wier, 2.4 mi (3.9 km) upstream from Caney Creek, and at mile 97.7 (157.2 km).

DRAINAGE AREA.--8,229 mi² (21,313 km²).

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 43.42 ft (13.234 m) above mean sea level. Prior to July 8, 1931, nonrecording gage at site 0.8 mi (1.3 km) downstream at datum 3.00 ft (0.914 m) higher. July 8, 1931, to Oct. 15, 1958, nonrecording gage at present site at datum 3.00 ft (0.914 m) higher. Oct. 16, 1958, to Sept. 30, 1975, water-stage recorder at present site at datum 3.00 ft (0.914 m) higher.

REMARKS.--Water-discharge records fair. Flow regulated by Toledo Bend Reservoir (station 08025350) located 58.8 mi (94.6 km) upstream. Gage-height telemeter at station maintained by the National Weather Service.

AVERAGE DISCHARGE.--43 years (water years 1924-66) prior to completion of Toledo Bend Reservoir, 6,846 ft³/s (193.9 m³/s), 4,960,000 acre-ft/yr (6.1 km³/yr); 11 years (water years 1967-77) regulated, 6,138 ft³/s (173.8 m³/s), 4,447,000 acre-ft/yr (5.48 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 115,000 ft³/s (3,260 m³/s) May 19, 1953, gage height, 28.70 ft (8.748 m); minimum daily, 134 ft³/s (3.79 m³/s) Nov. 9, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1833, 33.5 ft (10.21 m) 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 29 ft (8.8 m). 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, 18,600 ft³/s (527 m³/s) Mar. 5, gage height, 17.53 ft (5.343 m); minimum daily, 436 ft³/s (12.3 m³/s) Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6560	777	901	5180	2030	8860	10300	6320	4200	4750	883	4560
2	3110	618	744	5180	1890	9290	11500	3610	4600	4740	2940	4820
3	1040	555	650	5550	2200	9130	11400	5170	4600	2670	4800	4800
4	787	517	574	6070	5990	14700	10900	6150	4600	1130	4760	4800
5	698	499	527	5090	7930	17900	10900	5580	2290	754	4800	2500
6	655	479	584	3800	6830	15500	11200	5190	1000	2840	4800	3000
7	622	462	1110	3730	5710	14200	11100	6120	2630	4290	4700	4500
8	589	451	1820	4200	5210	12600	10800	6320	4590	4310	2600	4850
9	573	436	1590	2780	4940	10700	10700	6420	4500	4400	3450	4880
10	566	441	1300	4160	4740	11000	10600	6390	4400	2320	4870	5180
11	562	462	1040	7910	4680	11200	10500	6360	4400	873	4870	5040
12	546	480	1040	6130	4810	13100	9260	6280	2330	1470	5020	2440
13	831	553	1720	2940	4950	14300	8640	6200	980	3230	5040	3310
14	1640	624	2010	2790	4820	13600	8760	6120	2700	3620	5040	4680
15	1640	661	1650	3900	6790	12800	8710	6060	4700	3720	2760	5090
16	1740	645	1380	3370	7570	11900	8710	5950	5190	3700	3490	4750
17	1250	584	1160	2590	9260	7780	8780	5040	4980	1920	4940	4780
18	744	547	995	3480	10600	7170	8760	4760	4810	806	5060	4520
19	1100	788	905	3500	10700	10600	8900	2530	2450	2400	5290	1750
20	1630	1160	927	3700	10600	10500	10600	1270	1060	4400	5420	3540
21	1100	922	2750	4250	10800	10400	14300	2980	2900	4610	4980	4610
22	694	830	5360	4170	9400	10600	14900	2410	3920	4570	2580	4580
23	536	1120	5240	4010	7820	10500	13200	1140	4510	4400	3150	4570
24	511	2670	5110	4000	7730	9320	11800	2660	4800	2360	5190	4600
25	500	3200	5310	5110	7750	8840	11100	4320	4830	902	5190	4600
26	490	3290	5030	6760	7630	9170	10700	4540	2750	2720	5370	1830
27	490	3370	2770	6980	7570	9270	10500	4550	1370	4400	5050	3500
28	478	1680	2930	7060	7590	10300	8570	4580	3250	4620	4980	4700
29	511	1030	4050	4910	---	11700	7510	2370	4760	4700	2490	4700
30	683	1070	4570	3550	---	11200	7160	1090	4810	4700	3010	4700
31	931	---	5230	2490	---	10400	---	2670	---	2330	4460	---
TOTAL	31721	30921	70977	139340	188540	348530	310760	141060	108910	98655	131983	126180
MEAN	1088	1031	2290	4495	6734	11240	10360	4550	3630	3182	4258	4206
MAX	6560	3370	5360	7910	10800	17900	14900	6420	5190	4750	5420	5180
MIN	478	436	527	2490	1890	7170	7160	1000	980	754	883	1750
AC-FT	66890	61330	140800	276400	374000	691300	616400	279800	216000	195700	261800	250300
CAL YR 1976	TOTAL	1810218	MEAN	4946	MAX	23000	MIN	436	AC-FT	3591000		
WTR YR 1977	TOTAL	1729577	MEAN	4739	MAX	17900	MIN	436	AC-FT	3431000		

SABINE RIVER BASIN

08028500 SABINE RIVER NEAR BON WEIR, TX--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1970 to current year.

WATER TEMPERATURES: January 1970 to current year.

REMARKS.--Data furnished by Texas District.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 385 micromhos Aug. 24, 1970; minimum, 36 micromhos May 1, 1973.

WATER TEMPERATURES: Maximum, 32.0°C July 25, 1977; minimum, 6.0°C Jan. 11, 12, 13, 1973, Jan. 18, 19, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 309 micromhos Nov. 16; minimum, 67 micromhos Feb. 4.

WATER TEMPERATURES: Maximum 32.0°C July 25; minimum, 6.0°C Jan. 18, 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED SULFATE (MG/L)	DISSOLVED CHLORIDE (MG/L)
OCT							
07...	1710	618	231	22.0	120	27	27
14...	1720	1870	180	22.0	50	20	25
21...	1645	878	204	17.5	60	24	30
28...	1720	483	225	14.0	120	24	27
NOV							
01...	1645	733	283	15.0	140	47	31
07...	0930	465	238	15.0	140	33	27
14...	0850	614	205	11.0	100	27	24
21...	0740	839	212	13.0	80	20	27
DEC							
02...	1150	622	216	9.0	140	22	23
08...	1620	1890	109	14.0	100	8.0	16
15...	1415	1610	133	13.0	140	14	16
22...	1645	5070	179	9.0	40	5.6	28
JAN							
08...	1625	3930	166	9.5	60	18	25
15...	1530	3800	78	9.5	140	11	10
22...	1410	4550	182	7.0	50	18	26
29...	1040	5080	193	8.0	50	19	29
FEB							
07...	1440	5550	129	9.0	120	14	20
14...	1645	4700	172	12.0	60	19	28
21...	1325	11000	194	11.0	40	19	31
28...	0630	7200	198	13.0	50	20	32
MAR							
08...	1805	11700	156	13.0	60	20	25
15...	0618	12300	180	15.0	50	20	28
22...	1720	10500	192	15.0	40	17	31
29...	1635	10700	175	16.0	70	16	29
APR							
08...	1620	10900	194	18.0	60	18	32
15...	1755	8830	199	18.0	40	18	32
22...	2020	13900	163	20.0	70	14	25
29...	1845	7400	202	22.0	60	3.6	33
MAY							
07...	--	6290	202	23.0	20	19	31
14...	0950	6700	204	25.0	20	17	32
21...	1730	4700	189	25.0	30	12	28
31...	0745	1280	227	27.0	50	9.6	33
JUN							
07...	0745	1220	213	28.0	30	22	31
14...	1950	4530	199	25.0	20	19	30
21...	2010	4360	202	28.0	20	21	32
28...	1645	4870	218	30.0	20	7.6	32
JUL							
02...	0835	4580	239	28.0	40	29	35
08...	0810	4580	218	29.0	20	21	36
15...	1810	4020	217	29.5	20	21	36
22...	1815	5070	215	29.5	20	--	34
AUG							
01...	1805	729	253	31.0	50	36	35
07...	0850	4910	222	28.0	30	24	34
14...	1000	5220	214	28.0	20	24	34
21...	1030	5460	219	28.5	20	24	35
SEP							
07...	1810	5360	219	28.0	20	32	31
14...	0810	4470	227	25.0	30	32	34
21...	0815	5250	214	--	20	26	33
28...	0800	5300	217	27.0	20	26	34

08028500 SABINE RIVER NEAR BON WEIR, TX--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	283	223	185	171	197	181	199	209	229	253	220
2	198	281	216	183	159	197	175	190	206	239	211	216
3	227	250	209	175	143	195	160	204	203	240	217	217
4	223	240	191	168	67	128	177	160	210	244	219	216
5	251	240	214	161	116	134	183	182	211	190	223	222
6	235	233	202	166	102	154	191	193	172	194	230	211
7	231	238	210	171	129	125	193	202	213	213	222	219
8	230	236	109	166	162	156	194	202	213	218	226	217
9	230	239	175	157	168	176	198	205	216	219	222	216
10	231	226	208	95	173	181	197	209	214	217	225	222
11	238	226	208	160	168	182	198	201	213	217	223	208
12	238	218	224	134	167	161	193	205	214	218	222	240
13	241	228	201	140	172	163	197	203	219	211	219	216
14	180	205	135	134	172	169	199	204	199	216	214	227
15	202	281	133	78	186	180	199	205	202	217	209	226
16	190	309	123	81	187	183	199	205	198	214	212	226
17	193	267	130	89	191	173	200	203	207	211	218	220
18	206	260	134	97	193	187	202	202	211	201	218	220
19	220	248	145	165	193	195	201	206	218	197	214	240
20	180	166	145	163	193	189	195	193	230	216	210	219
21	204	212	123	174	194	188	166	189	202	214	219	214
22	221	259	179	182	200	192	163	207	213	215	211	217
23	235	296	174	186	195	197	168	201	202	217	192	218
24	231	197	191	183	197	190	176	192	235	214	203	218
25	233	195	175	181	197	193	194	210	235	234	221	215
26	229	193	139	191	190	193	196	210	241	201	231	224
27	228	191	111	194	190	193	196	209	306	221	220	208
28	225	196	116	193	198	164	200	211	218	210	215	217
29	213	226	163	193	---	175	202	213	228	207	214	217
30	206	212	181	175	---	181	201	223	240	214	214	217
31	253	---	184	192	---	181	---	227	---	219	220	---

TEMPERATURE (DEG. C) OF WATER
ONCE-DAILY

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

08028500 SABINE RIVER NEAR BON WEIR, TX--Continued

COLOR (PLATINUM-COBALT UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	140	140	70	120	40	60	20	20	30	50	20
2	40	140	140	40	120	50	60	20	20	40	20	20
3	60	140	140	40	120	50	70	20	30	30	20	20
4	40	140	140	50	240	140	60	40	20	70	20	20
5	120	140	120	60	140	140	60	20	10	40	20	20
6	120	140	140	50	140	70	50	20	10	20	20	20
7	120	140	140	50	120	120	50	20	30	20	30	20
8	120	140	100	60	50	60	60	20	20	20	30	20
9	140	140	140	70	50	50	40	20	20	20	20	20
10	120	140	100	140	40	60	50	20	20	20	20	20
11	140	140	140	70	50	50	40	20	20	20	20	30
12	140	140	140	120	60	70	50	20	20	30	20	40
13	140	140	140	70	50	50	40	20	30	20	20	30
14	50	160	140	120	60	60	40	20	20	20	20	30
15	50	140	140	140	50	50	40	20	20	20	30	20
16	40	240	140	140	50	40	40	20	30	20	30	30
17	40	200	140	140	50	60	40	20	30	20	20	20
18	60	280	120	140	40	50	40	20	30	20	20	20
19	---	160	140	60	50	40	40	20	20	20	20	40
20	60	70	140	140	40	40	40	30	50	20	20	20
21	60	80	140	70	40	50	70	30	20	20	20	20
22	70	140	40	50	40	40	70	20	20	20	20	20
23	40	140	40	50	40	40	60	20	20	20	20	20
24	40	50	50	50	40	50	60	20	50	20	30	30
25	80	40	40	60	40	50	40	20	50	20	30	20
26	120	40	70	50	40	50	40	10	30	20	30	20
27	120	40	70	50	60	40	60	10	100	20	20	20
28	120	140	70	50	50	70	60	20	20	20	20	20
29	120	140	60	50	---	70	50	20	20	20	30	20
30	120	140	40	50	---	60	40	30	30	20	20	20
31	120	---	40	70	---	50	---	50	---	20	20	---

08028700 HOOSIER CREEK NEAR MERRYVILLE, LA

LOCATION.--Lat 30°43'32", long 93°33'36", in SE¼ sec.11, T.4 S., R.12 W., Beauregard Parish, Hydrologic Unit 12010005, near right bank on downstream side of bridge on State Highway 389, 2.0 mi (3.2 km) upstream from Pullem Branch, and 2.0 mi (3.2 km) south of Merryville.

DRAINAGE AREA.--13.1 mi² (33.9 km²).

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

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 60.53 ft (18.450 m) above mean sea level (Louisiana Geodetic Survey bench mark).

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

AVERAGE DISCHARGE.--22 years, 14.1 ft³/s (0.399 m³/s), 14.62 in/yr (371 mm/yr), 10,220 acre-ft/yr (12.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,560 ft³/s (44.2 m³/s) Mar. 24, 1973, gage height, 12.86 ft (3.920 m) from rating curve extended above 720 ft³/s (20.4 m³/s); minimum, 0.80 ft³/s (0.023 m³/s) Sept. 14, 15, 16, 17, 18, 19, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft³/s (11 m³/s) and maximum: Feb. 3 (1945) 573 ft³/s (16.2 m³/s), gage height, 8.73 ft (2.661 m); minimum discharge, 1.8 ft³/s (0.051 m³/s), many days, but may have been lower during period of no gage-height record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.3	4.7	3.1	16	3.9	18	6.4	2.5	1.9	1.8	2.3
2	2.4	2.6	3.5	3.6	9.0	3.9	18	12	2.5	1.9	2.4	2.2
3	2.2	2.4	3.2	20	191	10	14	7.6	2.5	1.9	3.0	2.2
4	2.2	2.3	3.0	21	154	56	13	5.4	2.5	1.9	2.6	2.1
5	2.2	2.3	2.9	13	34	29	12	4.7	2.4	1.9	2.3	2.1
6	2.1	2.2	16	7.2	19	13	8.8	4.4	2.4	1.9	2.2	2.1
7	2.1	2.2	78	6.7	13	8.9	6.8	4.1	2.3	2.1	2.1	2.1
8	2.1	2.2	18	6.0	11	6.6	5.9	3.9	2.2	2.3	2.1	3.8
9	2.1	2.2	7.2	49	9.2	5.4	5.4	3.8	2.1	2.0	2.0	6.2
10	2.1	2.2	4.7	95	8.3	5.0	5.0	3.5	2.1	2.0	2.0	9.8
11	2.1	2.3	4.4	20	9.5	10	4.7	3.4	2.1	2.0	2.0	5.3
12	2.1	3.5	41	12	11	77	4.5	3.2	2.1	2.0	1.9	3.1
13	2.0	4.8	60	13	10	27	4.3	3.2	2.1	2.0	1.9	3.0
14	2.0	8.3	16	123	8.1	12	4.1	3.1	2.3	2.0	2.2	2.9
15	2.0	9.8	15	51	6.6	8.2	4.0	3.1	3.8	1.9	2.3	3.1
16	2.4	4.8	11	21	5.8	6.8	4.2	3.0	4.0	1.9	2.1	3.0
17	3.1	3.2	6.2	14	5.4	5.9	5.8	3.0	3.1	1.9	2.0	2.8
18	2.6	2.9	4.2	10	5.3	5.3	4.8	2.9	2.4	1.9	2.0	2.8
19	2.3	3.8	3.5	8.8	5.2	4.9	4.4	2.9	2.2	1.9	2.5	3.1
20	2.2	13	18	8.0	5.0	5.1	68	2.8	2.1	1.9	2.2	5.7
21	2.1	9.9	23	7.4	4.7	4.9	248	2.9	2.1	1.9	2.1	4.5
22	2.1	5.2	8.2	6.9	4.6	4.1	80	3.0	2.1	1.8	2.1	3.3
23	2.1	3.6	4.7	6.9	4.7	3.6	24	3.0	2.0	1.8	2.5	2.9
24	2.1	3.0	3.6	9.0	4.8	4.3	13	2.8	2.0	1.8	3.5	2.7
25	2.1	2.8	28	9.0	4.4	27	10	2.7	2.0	1.8	2.8	2.6
26	2.2	3.0	59	7.4	4.3	20	7.6	2.7	1.9	1.8	2.5	2.5
27	2.2	4.3	17	6.5	4.3	15	6.4	2.9	1.9	1.8	2.3	2.5
28	2.1	6.6	8.1	6.1	4.0	117	5.6	2.7	1.9	1.8	2.2	2.5
29	3.4	16	5.4	5.4	---	63	5.2	2.6	1.9	1.8	3.0	2.5
30	20	8.7	4.2	5.2	---	20	4.9	2.5	1.9	1.8	2.5	2.4
31	8.9	---	3.5	14	---	14	---	2.5	---	1.8	2.4	---
TOTAL	94.2	143.4	485.2	589.2	572.2	596.8	620.4	116.7	69.4	59.1	71.5	98.1
MEAN	3.04	4.78	15.7	19.0	20.4	19.3	20.7	3.76	2.31	1.91	2.31	3.27
MAX	20	16	78	123	191	117	248	12	4.0	2.3	3.5	9.8
MIN	2.0	2.2	2.9	3.1	4.0	3.6	4.0	2.5	1.9	1.8	1.8	2.1
CFSM	.23	.36	1.20	1.45	1.56	1.47	1.58	.29	.18	.15	.18	.25
IN.	.27	.41	1.38	1.67	1.62	1.69	1.76	.33	.20	.17	.20	.28
AC-FT	187	284	962	1170	1130	1180	1230	231	138	117	142	195

CAL YR 1976 TOTAL 3247.0 MEAN 8.87 MAX 132 MIN 2.0 CFSM .68 IN 9.22 AC-FT 6440
WTR YR 1977 TOTAL 3516.2 MEAN 9.63 MAX 248 MIN 1.8 CFSM .74 IN 9.98 AC-FT 6970

NOTE.--No gage-height record July 28 to Aug. 30.

SABINE RIVER BASIN

08028700 HOOSIER CREEK NEAR MERRYVILLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	.91	1.05	1.09	1.75	1.14	1.78	1.20	.80	.63	---	.66
2	.78	.82	.95	1.13	1.47	1.14	1.76	1.49	.79	.63	---	.65
3	.76	.79	.91	1.98	4.87	1.48	1.62	1.28	.80	.62	---	.63
4	.75	.78	.88	1.99	5.32	3.31	1.57	1.14	.79	.62	---	.62
5	.74	.77	.87	1.66	2.49	2.27	1.50	1.08	.78	.63	---	.62
6	.74	.76	1.58	1.41	1.88	1.63	1.35	1.05	.78	.64	---	.61
7	.73	.76	4.04	1.38	1.66	1.46	1.24	1.02	.75	.71	---	.61
8	.73	.75	1.80	1.33	1.54	1.33	1.18	1.00	.72	.74	---	.79
9	.73	.75	1.30	2.87	1.47	1.26	1.14	.98	.70	.66	---	1.05
10	.73	.76	1.16	4.27	1.43	1.23	1.11	.95	.69	.66	---	1.34
11	.73	.77	1.15	1.92	1.49	1.47	1.08	.94	.68	.67	---	1.03
12	.72	.93	2.72	1.59	1.56	3.97	1.06	.92	.69	.67	---	.79
13	.72	1.06	3.44	1.65	1.52	2.22	1.04	.91	.70	.68	---	.77
14	.72	1.30	1.81	5.03	1.42	1.59	1.02	.90	.75	.66	---	.75
15	.71	1.40	1.77	3.10	1.33	1.42	1.01	.90	.98	.64	---	.77
16	.78	1.06	1.58	1.97	1.28	1.34	1.03	.89	1.01	.64	---	.73
17	.89	.91	1.35	1.66	1.26	1.29	1.17	.88	.89	.64	---	.70
18	.82	.87	1.21	1.53	1.25	1.25	1.09	.87	.78	.64	---	.68
19	.76	.96	1.15	1.46	1.25	1.22	1.05	.87	.73	.63	---	.72
20	.74	1.57	1.87	1.41	1.23	1.24	3.19	.86	.71	.63	---	.98
21	.73	1.41	2.10	1.38	1.21	1.22	6.31	.86	.69	.63	---	.87
22	.73	1.10	1.45	1.35	1.20	1.16	3.84	.88	.69	.61	---	.73
23	.73	.95	1.24	1.35	1.21	1.12	2.02	.88	.67	.61	---	.67
24	.73	.89	1.15	1.46	1.22	1.17	1.57	.85	.66	.61	---	.64
25	.73	.86	2.25	1.46	1.18	2.21	1.42	.84	.65	.60	---	.63
26	.74	.88	3.41	1.38	1.17	1.94	1.28	.84	.65	.60	---	.62
27	.74	1.01	1.84	1.33	1.17	1.73	1.21	.86	.64	.60	---	.62
28	.73	1.19	1.46	1.30	1.15	4.72	1.16	.83	.64	---	---	.61
29	.88	1.72	1.30	1.26	---	3.30	1.12	.82	.63	---	---	.61
30	1.92	1.34	1.20	1.24	---	1.86	1.10	.81	.63	---	---	.60
31	1.33	---	1.15	1.69	---	1.61	---	.80	---	---	.69	---
MEAN	.81	1.00	1.65	1.79	1.68	1.78	1.60	.95	.74	---	---	.74
MAX	1.92	1.72	4.04	5.03	5.32	4.72	6.31	1.49	1.01	.74	---	1.34
MIN	.71	.75	.87	1.09	1.15	1.12	1.01	.80	.63	---	---	.60

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 elevations at flood-profile stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Crest-stage partial-record stations

The following table contains annual maximum 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.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1977

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Red River basin							
07346950	Kelly Bayou near Ida, La.	Lat 33°00'05", long 93°51'55", Caddo Parish, at bridge on State Highway 168, and 1.8 miles (2.9 km) east of Ida.	a73	1969-77	3-27-77	38.66	540
07348100	McCain Creek near Shreveport, La.	Lat 32°35'50", long 93°50'00", Caddo Parish, at bridge on State Highway 1, and 7.0 miles (11.3 km) northwest of Shreveport.	13.8	1974-77	2-11-77	37.09	270
07348725	Indian Creek at Shongaloo, La.	Lat 32°55'55", long 93°17'30", Webster Parish, at bridge on State Highway 535, and 0.8 mile (1.3 km) southeast of Shongaloo.	33.1	1974-77	1977	<40.00	(†)
07348760	Black Bayou at Leton, La.	Lat 32°51'10", long 93°15'05", Webster Parish, at bridge on State Highway 159, 0.5 mile (0.8 km) south of Leton.	49.8	1974-77	3- 7-76 3-28-77	45.90 41.88	b2,130 210
07350990	Boggy Bayou at Woolworth Road, near Keithville, La.	Lat 32°22'35", long 93°54'00", Caddo Parish, at bridge 4.8 miles (7.7 km) northwest of Keithville.	41.3	1963-77	2-12-77	41.81	2,400
07351205	Brush Bayou tributary No. 2, at Shreveport, La.	Lat 32°26'30", long 93°48'05", Caddo Parish, at culvert on 70th Street, 5.8 miles (9.3 km) southwest of Shreveport Post Office.	3.68	1967-70, 1974-77	2-12-77	11.67	(†)
07351300	Brush Bayou near Shreveport, La.	Lat 32°23'25", long 93°46'15", Caddo Parish, at bridge on State Highway 526, and 2.5 miles (4.0 km) south of Shreveport.	27.1	1960-77	2-12-77	163.18	(†)
07351500	Cypress Bayou near Keithville, La.	Lat 32°18'00", long 93°49'40", Caddo Parish, at bridge on State Highway 175, and 2.0 miles (3.2 km) south of Keithville.	a66	1939-57†, 1958-77	2-12-77	10.66	4,270
07351670	Rambin Bayou near Frierson, La.	Lat 32°13'25", long 93°42'15", De Soto Parish, at bridge on State Highway 175, and 1.5 miles (2.4 km) south of Frierson.	59.6	1966-77	2-12-77	11.44	(†)
07351700	Bayou Na Bonchasse near Mansfield, La.	Lat 32°06'05", long 93°41'45", De Soto Parish, at bridge on State Highway 175, and 4.2 miles (6.8 km) north of Mansfield.	19.5	1957-68†, 1969-77	1-14-77	10.12	307
07351980	Saline Bayou near Bienville, La.	Lat 32°24'10", long 92°56'45", Bienville Parish, at bridge on parish road 1.0 mile (1.6 km) upstream from Bear Creek, and 4.0 miles (6.4 km) northeast of Bienville.	54.9	1966-77	2-12-77	43.01	420
07352200	Black Lake Bayou near Minden, La.	Lat 32°34'50", long 93°10'55", Bienville-Webster Parish line, at bridge on U.S. Highway 80, and 7.0 miles (11.3 km) southeast of Minden.	38.6	1951-68, 1974-77	2-12-77	14.95	770
07352295	Black Lake Creek at Gibsland, La.	Lat 32°33'15", long 93°03'05", Bienville Parish, at bridge on State Highway 154, and 0.6 mile (1.0 km) north of Gibsland.	44.8	1968-77	2-12-77	45.36	(†)

See footnotes at end of the table.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (ft ³ /s)
Red River basin--Continued							
07352400	Kepler Creek at Sparta, La.	Lat 32°22'05", long 93°05'35", Bienville Parish, at bridge on State Highway 507, 0.8 mile (1.3 km) west of Sparta.	21.1	1954-68, 1974-77	1977	<42.00	(†)
07352500	Black Lake Bayou near Castor, La.	Lat 32°15'40", long 93°12'50", Bienville Parish, at bridge on State Highway 4, and 2.8 miles (4.5 km) northwest of Castor.	423	1941-57†, 1958-77	1977	--	<1,360
07352730	Antoine Creek near Ashland, La.	Lat 32°05'50", long 93°06'10", Natchitoches Parish, at bridge on State Highway 153, and 3.0 miles (4.8 km) south of Ashland.	17.7	1964-77	3- 4-77	45.15	(†)
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 mile (1.0 km) north of Kisatchie.	37.3	1966-77	3- 3-77	21.45	2,020
07364740	Bayou de Loutre near Farmerville, La.	Lat 32°52'25", long 92°23'40", Union Parish, at bridge on State Highway 549, and 7.0 miles (11.3 km) north of Farmerville.	241	1966-77	3-29-77	42.12	1,050
07364800	Bayou D'Arbonne at Homer, La.	Lat 32°48'30", long 93°03'20", Claiborne Parish, at bridge on U.S. Highway 79, and 0.2 mile (0.3 km) north of Homer.	a30	1954-68, 1974-77	2-12-77	44.46	200
07364870	Sugar Creek near Arcadia, La.	Lat 32°41'20", long 92°51'30", Claiborne-Lincoln Parish line, at bridge on State Highway 146, and 10.3 miles (16.6 km) northeast of Arcadia.	a47	1966-77	3-28-77	41.75	230
07365300	Middle Fork Bayou D'Arbonne near Colquitt, La.	Lat 32°55'40", long 92°59'40", Claiborne Parish, at bridge on State Highway 520, and 2.0 miles (3.2 km) southeast of Colquitt.	43.9	1954-68, 1974-77	1977	<40.00	(†)
07366000	Corney Bayou near Lillie, La.	Lat 32°53'15", long 92°39'25", Union Parish, at bridge on U.S. Highway 167, and 3.0 miles (4.8 km) south of Lillie.	462	1941-57†, 1957-77	3-28-77	--	<1,100
07366350	Stowe Creek near Farmerville, La.	Lat 32°40'20", long 92°28'20", Union Parish, at bridge on State Highway 151, and 8.0 miles (12.9 km) southwest of Farmerville.	a29	1954-68, 1974-77	5-02-77	43.98	(†)
07366420	Bayou Choudrant near Calhoun, La.	Lat 32°32'30", long 92°22'45", Ouachita Parish, at bridge on State Highway 151, and 2.5 miles (4.0 km) northwest of Calhoun.	113	1966-77	2-12-77	41.65	1,550
07367300	North Cheniere Creek at Cheniere, La.	Lat 32°29'35", long 92°15'40", Ouachita Parish, at bridge on State Highway 546, 1.0 mile (1.6 km) southwest of Cheniere.	a38	1954-68, 1974-77	2-12-77	42.21	625
07367600	Cypress Creek near Vixen, La.	Lat 32°17'20", long 92°14'45", Ouachita Parish, at bridge on State Highway 557, and 4.1 miles (6.6 km) northeast of Vixen.	a16	1954-68, 1974-77	3- 4-77	47.01	(†)
07369253	Turkey Creek at Jigger, La.	Lat 32°02'05", long 91°44'06", Franklin Parish, at bridge on State Highway 128, and 0.7 mile (1.1 km) east of Jigger.	62	1975-77	1977	<39.50	(†)
07370530	Black Bayou at Kelly, La.	Lat 31°58'20", long 92°10'00", Caldwell Parish, at bridge on U.S. Highway 165, and 0.9 mile (1.4 km) southeast of Kelly.	51.9	1966-77	5-13-71 3-16-73 3- 4-77	41.04 41.57 41.87	b4,930 b5,840 6,560
07370575	Caney Creek near Chatham, La.	Lat 32°13'00", long 92°29'10", Jackson Parish, at bridge on State Highway 34, and 6.5 miles (10.5 km) southwest of Chatham.	48.8	1966-77	3- 4-77	43.74	(†)
07370600	Beaucoup Creek near Cotton Plant, La.	Lat 32°06'40", long 92°19'20", Winn Parish, at bridge on State Highway 110, and 3.3 miles (5.3 km) west of Cotton Plant.	127	1951-68, 1974-77	3-12-77	10.99	4,450
07370650	Flat Creek near Sikes, La.	Lat 32°04'45", long 92°27'50", Winn Parish, at bridge on State Highway 110, and 1.5 miles (2.4 km) east of Sikes.	41.5	1951-68, 1975-77	3-12-77	9.79	(†)
07370660	Flat Creek near Olla, La.	Lat 32°00'55", long 92°21'50", Winn Parish, at bridge on State Highway 127, 2.5 miles (4.0 km) downstream from Fish Creek, and 10.2 miles (16.4 km) northwest of Olla.	103	1966-77	3-12-77	47.43	4,100

See footnotes at end of the table.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (ft ³ /s)
Red River basin--Continued							
07370700	Beech Creek near Olla, La.	Lat 31°54'55", long 92°23'35", Winn Parish, at bridge on State Highway 124, and 9.0 miles (14.5 km) west of Olla.	a58	1954-68, 1974-77	3-12-77	43.37	5,400
07370750	Chickasaw Creek near Olla, La.	Lat 31°52'30", long 92°13'35", La Salle Parish, at bridge on State Highway 127, 2.0 miles (3.2 km) southeast of Olla, and 3.5 miles (5.6 km) upstream from Tarver Creek	47.6	1954-77	3- 4-77	42.03	5,270
07370820	Dugdemona River near Quitman, La.	Lat 32°20'40", long 92°44'40", Jackson Parish, at bridge on State Highway 155, and 1.7 miles (2.7 km) west of Quitman.	117	1964-77	1-14-77	40.32	1,070
07370840	Choctaw Creek near Hodge, La.	Lat 32°22'05", long 92°48'45", Bienville Parish, at bridge on State Highway 147, and 8.5 miles (13.7 km) northwest of Hodge.	16.5	1966-77	1-14-77	42.66	690
07370930	Cypress Bayou at Quitman, La.	Lat 32°20'45", long 92°42'55", Jackson Parish, at bridge on U.S. Highway 167, and 0.8 mile (1.3 km) southeast of Quitman.	91.8	1966-77	1977	<40.1	(†)
07370980	Little Dugdemona River near Hodge, La.	Lat 32°16'20", long 92°41'40", Jackson Parish, at bridge on State Highway 813-3, and 1.7 miles (2.7 km) east of Hodge.	a20	1964-77	1-14-77	44.72	750
07372110	Brushy Creek near Joyce, La.	Lat 31°55'10", long 92°33'15", Winn Parish, at bridge on U.S. Highway 84, and 3.0 miles (4.8 km) southeast of Joyce.	a24	1964-77	12-25-76 3- 4-77	41.11 41.11	520 520
07372300	Bear Creek near Packton, La.	Lat 31°47'05", long 92°34'40", Grant Parish, at bridge on U.S. Highway 167, and 1.1 miles (1.8 km) south of Packton.	a11	1954-68, 1975-77	3-12-77	46.86	(†)
07372900	Dyson Creek near Pollock, La.	Lat 31°32'20", long 92°25'40", Grant Parish, at bridge on unnumbered parish road, 0.8 mile (1.3 km) upstream from mouth, and 1.6 miles (2.6 km) northwest of Pollock.	a12	1964-77	3- 4-77	44.55	(†)
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 mile (0.2 km) upstream from Mulberry Creek, and 8.5 miles (13.7 km) east of Oberlin.	43.9	1964-77	4-21-77	48.08	5,100
Calcasieu River basin							
08012650	Floctaw Creek near Lacamp, La.	Lat 31°10'55", long 92°59'45", Vernon Parish, at bridge on State Highway 28, and 5.0 miles (8.0 km) northwest of Lacamp.	18.7	1951-68, 1975-77	3- 4-77	13.08	(†)
08013700	Drakes Creek near Pitkin, La.	Lat 30°57'45", long 93°08'15", Vernon Parish, at bridge on State Highway 10, and 12.5 miles (20.1 km) west of Pitkin.	22.1	1954-68, 1975-77	3- 4-77	14.44	(†)
08013800	Little Sixmile Creek near Pitkin, La.	Lat 30°58'05", long 93°00'45", Vernon Parish, at bridge on State Highway 10, 1.0 mile (1.6 km) upstream from Spurlock Branch, and 5.0 miles (8.0 km) west of Pitkin.	10.4	1954-77	3- 4-77	13.78	(†)
08013950	Big Brushy Creek near Pitkin, La.	Lat 30°54'55", long 92°53'30", Vernon Parish, at bridge on State Highway 10, and 3.0 miles (4.8 km) southeast of Pitkin, and 3.1 miles (5.0 km) upstream from mouth.	34.4	1965-77	3- 4-77	15.28	1,300
08014000	Sixmile Creek near Sugartown, La.	Lat 30°48'52", long 92°55'34", Allen Parish, at bridge on State Highway 112, 5.5 miles (8.9 km) east of Sugartown, and 6.6 miles (10.6 km) upstream from mouth.	171	1956-65†, 1966-77	3- 4-77	12.82	3,100
08014200	Tenmile Creek near Elizabeth, La.	Lat 30°50'11", long 92°52'26", Allen Parish, at bridge on State Highway 10, 0.3 mile (0.5 km) downstream from Carter Branch, and 5.3 miles (8.5 km) southwest of Elizabeth.	94.2	1950-65†, 1966-77	4-21-77	14.02	3,000

See footnotes at end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Calcasieu River basin--Continued							
08014600	Flat Creek near De Ridder, La.	Lat 30°51'05", long 93°14'45", Beauregard Parish, at bridge on State Highway 112, 2.4 miles (3.9 km) east of De Ridder, and 3.2 miles (5.1 km) upstream from mouth.	26.3	1964-77	4-21-77	9.85	(†)
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 mile (1.6 km) south of Dry Creek.	42.7	1956-68, 1975-77	3- 4-77	20.75	(†)
08016500	Hickory Branch near Longville, La.	Lat 30°36'23", long 93°15'49", Beauregard Parish, at bridge on State Highway 110, 2.1 miles (3.4 km) west of Longville, and 4.2 miles (6.7 km) upstream from Horse Branch.	34.9	1953-68, 1977	4-21-77	14.64	740
08016600	Hickory Branch at Kernan, La.	Lat 30°30'05", long 93°16'45", Beauregard Parish, at bridge on State Highway 12, 0.7 mile (1.1 km) southwest of Kernan, and 3.0 miles (4.8 km) upstream from Cowpen Creek	82.2	1946-57†, 1958-77	4-21-77	<16.9	<2,340
Sabine River basin							
08022600	Bayou Castor near Longstreet, La.	Lat 32°05'35", long 93°55'15", De Soto Parish, at bridge on State Highway 3015, and 1.8 miles (2.9 km) east of Longstreet.	27.7	1954-68, 1975-77	2-12-77	13.66	(†)
08023270	Bull Bayou near Hunter, La.	Lat 31°53'10", long 93°50'30", De Soto Parish, at bridge on State Highway 174, 1.1 miles (1.8 km) southeast of Hunter, and 3.2 miles (5.1 km) upstream from mouth.	8.54	1964-77	3- 4-77	10.48	(†)
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 mile (1.6 km) east of Zwolle.	45.9	1950-68, 1975-77	2-16-75 6- 1-76 3- 4-77	11.75 9.67 8.49	c2,360 c680 500
08024060	Blackwell Creek at Many, La.	Lat 31°34'50", long 93°27'45", Sabine Parish, at bridge on State Highway 6, 0.2 mile (0.3 km) northeast of Many, and 0.8 mile (1.3 km) upstream from mouth.	3.16	1959-68†, 1969-77	3- 4-77	11.11	622
08025850	Pearl Creek at State Highway 111, at Burr Ferry, La.	Lat 31°04'32", long 93°29'22", Vernon Parish, at bridge 0.8 mile (1.3 km) northeast of Burr Ferry.	9.66	1967-77	3- 4-77	6.26	(†)
08026200	Red Bank Creek at Evans, La.	Lat 30°59'30", long 93°29'55", Vernon Parish, at bridge on State Highway 111, 0.4 mile (0.6 km) northeast of Evans, and 2.8 miles (4.5 km) upstream from mouth.	17.2	1966-77	3- 4-77	12.72	(†)
08026700	West Anacoco Creek near Hornbeck, La.	Lat 31°18'00", long 93°22'10", Vernon Parish, at bridge on U.S. Highway 171, and 2.5 miles (4.0 km) southeast of Hornbeck.	22.2	1950-68, 1971, 1975-77	5- 8-76 3- 4-77	13.45 13.15	c2,090 1,820
08027550	Prairie Creek near Leesville, La.	Lat 31°10'40", long 93°16'30", Vernon Parish, at bridge on U.S. Highway 171, and 2.5 miles (4.0 km) northwest of Leesville.	40.0	1949-68, 1975-77	5- 4-75 5- 8-76 3- 4-77	42.93 42.35 41.91	c2,300 c1,740 1,500
08029700	Brushy Creek at Bancroft, La.	Lat 30°33'35", long 93°40'49", Beauregard Parish, at bridge on State Highway 389, and 0.8 mile (1.3 km) south of Bancroft.	25.9	1954-68, 1975-77	3- 4-77	13.89	(†)

< Less than amount shown.

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately

b Revised.

c Not previously published.

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 1977

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation (feet above mean sea level)
Red River basin						
07348010	Twelvemile Bayou below Dixie, La.	Lat 32°36'25", long 93°48'35", Caddo Parish, at bridge on U.S. Highway 71, and 6.0 miles (9.7 km) southeast of Dixie.	--	1962-77	4- 1-77	155.87
07348105	McCain Creek at Pine Hills Road, near Shreveport, La.	Lat 32°35'01", long 93°49'34", Caddo Parish, at bridge 6.7 miles (10.8 km) northwest of courthouse at Shreveport.	--	1963-77	1977	<173.60
07348120	McCain Creek at Cooper Road, near Shreveport, La.	Lat 32°33'11", long 93°47'30", Caddo Parish, at bridge 3.7 miles (6.0 km) northwest of courthouse at Shreveport.	--	1963-77	2-11-77	49.58
07349363	Macks Bayou tributary No. 2, at Bossier City, La.	Lat 32°32'33", long 93°42'30", Bossier Parish, at bridge on Airline Drive, 2.1 miles (3.4 km) northeast of Bossier City Post Office.	--	1963-77	2-11-77 8-25-77	164.06 164.21
07349365	Macks Bayou at Bossier City, La.	Lat 32°31'59", long 93°40'24", Bossier Parish, at bridge on U.S. Highway 80, 3.3 miles (5.3 km) northeast of Bossier City Post Office.	--	1963-77	1977	<158.80
07349368	Macks Bayou tributary No. 3, at Bossier City, La.	Lat 32°31'20", long 93°41'31", Bossier Parish, at bridge on Old Minden Road, 2.1 miles (3.4 km) east of Bossier City Post Office.	--	1963-77	1977	<162.90
07349369	Macks Bayou at North Gate Road, at Bossier City, La.	Lat 32°30'39", long 93°40'56", Bossier Parish, 500 ft (152 m) west of Barksdale Air Force Base fence at North Gate Road, at Bossier City.	--	1966-77	2-11-77 8-25-77	160.42 <158.80
07349380	Flat River at Taylortown, La.	Lat 32°23'20", long 93°35'15", Bossier Parish, at bridge on State Highway 527, and 0.5 mile (0.8 km) east of Taylortown.	95.8	1960-62a, 1963-77	1977	<143.00
07349400	Flat River near Elm Grove, La.	Lat 32°19'45", long 93°31'20", Bossier Parish, at bridge on State Highway 157, and 2.2 mile (3.5 km) southeast of Elm Grove.	112	1960-77	1977	<140.00
07349590	Ivan Lake near Cotton Valley, La.	Lat 32°49'45", long 93°29'20", Bossier Parish, at bridge 100 ft above dam, and 4.0 miles (6.4 km) west of Cotton Valley.	37.8	1960-65a, 1966-77	1977	<201.00
07349785	Little Cypress Bayou at State Highway 3, at Plain Dealing, La.	Lat 32°54'55", long 93°42'15", Bossier Parish, at bridge 0.6 mile (1.0 km) northwest of Plain Dealing.	--	1963-77	1977	<276.2
07349787	Little Cypress Bayou tributary at Plain Dealing, La.	Lat 32°54'30", long 93°42'15", Bossier Parish, at bridge on State Highway 3, 0.7 mile (1.1 km) northwest of Plain Dealing.	--	1963-77	1977	<265.3
07349790	Little Cypress Bayou at Plain Dealing, La.	Lat 32°54'05", long 93°41'55", Bossier Parish, at bridge on unnamed street 0.3 mile (0.5 km) downstream from State Highway 3, and 0.3 mile (0.5 km) southeast of Plain Dealing.	--	1963-77	1977	<258.4
07349860	Red Chute Bayou at Sligo, La.	Lat 32°26'50", long 93°35'40", Bossier Parish, at bridge on State Highway 612, and 0.5 mile (0.8 km) west of Sligo.	980	1960-62a, 1963-77	2-11-77	145.43
07349890	Red Chute Bayou near Elm Grove, La.	Lat 32°21'45", long 93°30'10", Bossier Parish, at bridge on State Highway 154, and 3.0 miles (4.8 km) northeast of Elm Grove.	1,004	1960-77	1977	<133.10
07349900	Swan Lake near Elm Grove, La.	Lat 32°16'55", long 93°27'05", Bossier Parish, at bridge on parish road, 7.5 miles (12.1 km) southeast of Elm Grove.	1,020	1961-77	2-12-77	134.16
07350300	Coushatta Bayou near Crichton, La.	Lat 32°07'10", long 93°24'10", Red River Parish, at bridge on State Highway 515, 1.8 miles (2.9 km) east of Crichton.	15.9	1960-77	1977	<128.4

See footnotes at end of the table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1977--Continued

						Flood peak
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation (feet above mean sea level)
Red River basin--Continued						
07350700	Bayou Pierre at Shreveport, La.	Lat 32°27'20", long 93°44'05", Caddo Parish, at bridge on Pierremont Road, 3.4 miles (5.7 km) southeast of Shreveport city hall.	--	1960-77	10-29-76 2-12-77	<142.10 155.70
07350800	Bayou Pierre at Forbing, La.	Lat 32°23'35", long 93°43'25", Caddo Parish, at bridge on State Highway 526, 0.6 mile (1.0 km) northeast of Forbing and 8.1 miles (13.0 km) south of Shreveport Post Office.	b19	1960-65a 1967-77	10-29-76 2-12-77	<144.10 148.49
07350820	Sand Beach Bayou at Shreveport, La.	Lat 32°26'35", long 93°43'27", Caddo Parish, at bridge on East 70th Street, 4.3 miles (6.9 km) southeast of Shreveport city hall.	--	1963-64, 1965-77	1977	†<42.6
07350840	Sand Beach Bayou near Shreveport, La.	Lat 32°24'03", long 93°42'26", Caddo Parish, at bridge on State Highway 526, 7.4 miles (11.9 km) southeast of Shreveport city hall.	--	1963-77	1977	<150.4
07350900	Bayou Pierre near Robson, La.	Lat 32°22'25", long 93°40'30", Caddo Parish, at bridge on Leonard Road, and 2.0 miles (3.2 km) northwest of Robson.	26.0	1960-77	10-29-76	135.08
07351200	Brush Bayou at Shreveport, La.	Lat 32°26'23", long 93°46'52", Caddo Parish, at Southern Pacific Railway bridge, 4.9 miles (7.9 km) southwest of Shreveport city hall.	b3.4	1960-77	2-12-77	187.24
07351580	Bayou Pierre near Abington, La.	Lat 32°08'10", long 93°31'05", De Soto-Red River Parish line, at bridge on State Highway 509, and 2.9 miles (4.7 km) northwest of Abington.	406	1960-65a, 1966-77	1977	<119.50
07351740	Bayou Pierre at Evelyn, La.	Lat 31°59'20", long 93°26'30", De Soto-Red River Parish line, at bridge on State Highway 177, and 0.2 mile (0.3 km) northeast of Evelyn.	707	1950-65a, 1966-77	1977	<116.20
07351750	Bayou Pierre near Lake End, La.	Lat 31°53'40", long 93°20'30", Natchitoches-Red River Parish line, at bridge on State Highway 174, and 2.9 miles (4.7 km) southwest of Lake End.	860	1950-77	1977	<107.50
07352150	Saline Lake near Clarence, La.	Lat 31°51'10", long 92°56'10", Natchitoches-Winn Parish line, 100 feet (30.48 m) left of spillway, and 5.9 miles (9.5 km) northeast of Clarence.	(†)	1960-77	1977	<106.4
07352410	Kepler Lake near Castor, La.	Lat 32°18'40", long 93°09'30", Bienville Parish, at dam on Kepler Lake, 5.0 miles (8.0 km) north of Castor.	46.2	1960-65c, 1966-77	1977	<177.10
07352900	Saline Bayou at Allen Dam, near Clarence, La.	Lat 31°51'05", long 92°56'45", Natchitoches Parish, on right bank upstream wing wall of spillway, and 5.3 miles (8.5 km) northeast of Clarence.	1,325	1960-77	4- 6-77	101.67
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	1960-65c, 1966-77	1977	<94.99
07354780	Cane River near Cloutierville, La.	Lat 31°33'15", long 92°53'20", Natchitoches Parish, on left bank at south end of drainage canal and floodgates on State Highway 495, and 2.2 miles (3.5 km) northeast of Cloutierville.	583	1960-77	1977	<95.09
07355400	Bayou Marteau near Rock Hill, La.	Lat 31°25'30", long 92°35'50", Grant Parish, at bridge on parish road, 2.2 miles (3.5 km) southwest of Rock Hill, and 5.0 miles (8.0 km) northeast of Boyce.	--	1960-77	5- 2-77	81.75
07355475	Bayou Rapides near Alexandria, La.	Lat 31°18'43", long 92°33'38", Rapides Parish, at bridge on parish road, 12.2 miles (19.6 km) upstream from Red River, and 6.9 miles (11.1 km) west of Alexandria city hall.	--	1963-65, 1968-77	1977	<81.90
07355490	Bayou Rapides at control structure at Alexandria, La.	Lat 31°17'59", long 92°29'42", Rapides Parish, 100 feet (30 m) north of State Highway 496, and 3.1 miles (5.0 km) west of Alexandria city hall.	72.0	1963-77	1977	<73.91

See footnotes at end of the table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1977--Continued

						Flood peak
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation (feet above mean sea level)
Red River basin--Continued						
07371600	Dugdemonia River near Dodson, La.	Lat 32°07'22", long 92°48'24", Winn Parish, at bridge on State Highway 126, and 9.1 miles (14.6 km) northwest of Dodson.	412	1959-77	1-17-77	115.61
Mississippi River Delta						
07382256	Bayou Rapides-Boeuf-Cocodrie diversion channel at Alexandria, La.	Lat 30°17'43", long 92°29'38", Rapides Parish, at bridge on State Highway 28, 3.2 miles (5.1 km) west of Alexandria city hall.	--	1963-77	1977	<11.20
07382257	Bayou Rapides-Boeuf-Cocodrie diversion channel at State Highway 488, near Alexandria, La.	Lat 31°15'37", long 92°31'13", Rapides Parish, at bridge 5.7 miles (9.2 km) southwest of Alexandria city hall.	--	1963-77	3- 4-77	68.11
07382258	Bayou Rapides-Boeuf-Cocodrie diversion channel at U.S. Highway 165, near Alexandria, La.	Lat 31°13'39", long 92°29'49", Rapides Parish, at bridge 6.5 miles (10.5 km) southwest of Alexandria city hall.	--	1963-77	1977	<69.23
07382700	Bayou Carron at Washington, La.	Lat 30°36'55", long 92°03'50", St. Landry Parish, at bridge on State Highway 10, at southwestern edge of Washington.	82.6	1956-57d, 1960d, 1962-68d, 1973-77	4-23-77	51.76
07382840	Hynson Bayou at Bringham Park, at Alexandria, La.	Lat 31°17'19", long 92°27'16", Rapides Parish, on right bank just below bridge on Masonic Drive, 1.7 miles (2.7 km) south of Alexandria city hall.	--	1963-77	1977	<75.32
07382850	Horseshoe Drainage Canal at Packing House Road, at Alexandria, La.	Lat 31°16'25", long 92°26'15", Rapides Parish, at bridge 2.6 miles (4.2 km) south of Alexandria city hall.	--	1960-77	3-4-77	70.36
07382855	Hynson Bayou at Midway St., at Alexandria, La.	Lat 31°16'15", long 92°25'22", Rapides Parish, at bridge 3.1 miles (5.0 km) southeast of Alexandria city hall.	--	1963-77	3- 4-77	70.28
07382865	Persimmon Bayou near Alexandria, La.	Lat 31°13'45", long 92°22'51", Rapides Parish, at Texas and Pacific Railway bridge, just downstream from State Highway 1, and 6.7 miles (10.8 km) southeast of Alexandria city hall.	--	1963-77	3- 4-77	67.65
07383000	Chatlin Lake Canal near LeCompte, La.	Lat 31°07'10", long 92°20'40", Rapides Parish, at bridge on State Highway 457, and 3.7 miles (6.0 km) northeast of LeCompte.	75.9	1943-58c, 1960, 1962-77	3- 4-77	60.61
07384100	Turners Bayou Canal near Woodside, La.	Lat 30°51'06", long 91°51'20", Avoyelles Parish, at bridge on unnumbered parish road, 0.8 mile (1.3 km) north of Woodside.	--	1973-77	5-23-77	†8.90
Calcasieu River basin						
08012600	Calcasieu River near Slagle, La.	Lat 31°13'30", long 93°06'05", Vernon Parish, at bridge on State Highway 8, and 2.2 miles (3.5 km) northeast of Slagle.	48.1	1959-77	3- 4-77	†13.35
Sabine River basin						
08025700	Sandy Creek near Burr Ferry, La.	Lat 31°08'30", long 93°31'10", Vernon Parish, at bridge on State Highway 111, 5.3 miles (8.5 km) northwest of Burr Ferry.	33.7	1964-77	3- 4-77	108.83

< Less than amount shown.

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

‡ Drainage area indeterminate.

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

b Approximately

c Operated as a continuous-record gaging station.

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

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Red River basin						
07351747 Bayou Pierre	Red River	Lat 31°54'34", long 93°21'06", Natchitoches- Red River Parish line, at Jim Island bridge, 1.1 miles (1.8 km) upstream from Jims River, and 2.9 miles (4.7 km) southwest of Lake End, La.	--	1976	11- 4-76	46.6
07352380 Madden Mill Creek	Black Lake Bayou	Lat 32°23'50", long 93°11'06", Bienville Parish, at bridge on parish road 3.0 miles (4.8 km) northeast of Lawhon, and 4.2 miles (6.8 km) southeast of Fryeburg, La.	--	--	4-14-77 4-20-77 8- 2-77	4.20 5.74 1.93
07371515 Muddy Creek	do.....	Lat 32°15'28", long 92°52'53", Bienville Parish, at bridge on State Highway 4, 0.2 mile (0.32 km) north of Friendship, and 2.3 miles (3.7 km) northwest of Danville, La.	--	--	4-15-77 4-21-77	.98 1.91
07372750 Little River	Black River	Lat 31°34'50", long 92°18'35", Grant Parish, at bridge on State Highway 8, 0.7 mile (1.1 km) downstream from Trout Creek, and 7.0 miles (11.3 km) northeast of Pollock, La.	2,254	1952-54 1961-62, 1964-69a, 1971	6-10-77 7-25-77	176 85.6
07373228 Devils Creek	Catahoula Lake	Lat 31°34'59", long 92°10'19", La Salle Parish, at bridge on parish road, 1.2 miles (1.9 km) upstream from Pound Branch, and 2.6 miles (4.2 km) west of Nebo, La.	--	--	6-30-77	1.25
07373231 Do.....	do.....	Lat 31°33'51", long 92°09'00", La Salle Parish, at bridge on parish road, 1.0 mile (1.6 km) downstream from Pound Branch, and 1.8 miles (2.9 km) south of Nebo, La.	--	--	6-30-77	1.74
07381762 Spring Creek	Bayou Cocodrie	Lat 31°07'52", long 92°40'36", Rapides Parish, at bridge on State Highway 112, 0.2 mile (0.3 km) east of Elmer, and 1.0 mile (1.6 km) upstream from Bill Creek.	12.4	1969, 1972, 1975	8-30-77	6.80
07381768 Do.....	do.....	Lat 31°06'36", long 92°39'17", Rapides Parish, at bridge on parish road, 1.3 miles (2.1 km) upstream from Squyres Branch, and 1.5 miles (2.4 km) west of Melder, La.	21.5	1969, 1972-76	11- 5-76	1.65
07381774 Do.....	do.....	Lat 31°05'55", long 92°38'12", Rapides Parish, at bridge on parish road, 0.2 mile (0.3 km) downstream from Squyres Branch, and 0.5 mile (0.8 km) south of Melder, La.	28.3	1969-73, 1975-76	11- 5-76 7-13-77	6.51 7.87
07381777 Rocky Branch	Spring Creek	Lat 31°05'53", long 92°37'39", Rapides Parish, at bridge on State Highway 112, 0.5 mile (0.8 km) upstream from mouth, and 0.7 mile (1.1 km) southeast of Melder, La.	3.76	1969-73, 1975-76	11- 5-76 7-13-77	.44 .50
07381781 Roaring Creek	do.....	Lat 31°04'51", long 92°36'37", Rapides Parish, at bridge on parish road, 0.9 mile (1.4 km) upstream from mouth, and 3.0 miles (4.8 km) southeast of Melder, La.	7.56	1969, 1971-73, 1975-76	11- 5-76 7-13-77	1.81 1.45
07381784 Spring Creek	Bayou Cocodrie	Lat 31°04'03", long 92°37'06", Rapides Parish, at bridge on parish road, 0.4 mile (0.6 km) downstream from Roaring Creek, and 3.0 miles (4.8 km) south of Melder, La.	42.9	1969, 1972, 1975	9- 2-77	26.8
07382700 Bayou Carron	Bayou Courtableau	Lat 30°36'55", long 92°03'50", St. Landry Parish, at bridge on State Highway 10, at southwestern edge of Washington, and 0.7 mile (1.1 km) downstream from Bayou Bellevue.	82.6	1956-57, 1960, 1962-68	2- 3-77 4-21-77	510 5,150

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

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07352330 BASHAWAY CREEK NEAR FRYEBURG, LA

DATE	TIME	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
APR 20...	1200	6.1	20.0	20	99	62	23	10	130	74	5.7	2.0

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
APR 20...	45	0	37	57	49	210	.1	14	530	467	.64

DATE	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED CESIUM 137 DIS- SOLVED (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	TOTAL TRITIUM (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)	DIS- SOLVED STRON- TIUM 90 (PC/L)
APR 20...	50	510	5400	<7.6	7.6	6.2	--	.16	<480	.06	1.8

07352380 MADDEN MILL CREEK NEAR FRYEBURG, LA

DATE	TIME	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
APR 20...	1500	6.7	20.0	70	13	4	2.4	1.6	4.2	40	.9	10
AUG 02...	1400	6.1	23.5	60	10	2	2.5	.9	3.5	40	1.1	10

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)
APR 20...	0	8	3.2	3.2	5.5	.0	13	43	37	.05	--	--
AUG 02...	0	8	13	3.2	5.0	.0	14	--	37	.05	.22	.01

DATE	DIS- SOLVED ORTHO- PHOS- PHATE (P04) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED CESIUM 137 DIS- SOLVED (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	TOTAL TRITIUM (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)	DIS- SOLVED STRON- TIUM 90 (PC/L)
APR 20...	--	30	840	270	<.7	3.5	2.8	<1.0	.29	<480	.04	<.4
AUG 02...	.03	40	730	180	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07367500 CHENIERE BRAKE AT DAM, NEAR BAWCOMVILLE, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL PER 100 ML)	STREPTOCOCCI (COL PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL PER 100 ML)	HARDNESS (CA, MG/L)
DEC 16...	1530	55	6.3	9.5	50	2	9.2	2.7	82	>5	--	13
FEB 15...	1730	51	6.6	11.5	50	10	10.1	3.0	1	--	0	13
MAY 12...	1630	58	6.8	25.0	40	3	9.3	4.5	818	--	--	13
JUL 26...	1440	64	6.0	29.0	10	3	4.8	2.2	<5	--	11000	16

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
DEC 16...	0	3.2	1.1	4.8	42	.6	1.7	16	0	13	13	3.8
FEB 15...	6	3.3	1.1	4.8	40	.6	2.2	8	0	7	3.2	7.2
MAY 12...	0	2.2	1.7	5.0	42	.6	2.0	17	0	14	4.3	3.3
JUL 26...	2	4.1	1.3	5.4	39	.6	1.9	17	0	14	27	2.4

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 16...	5.8	.2	7.2	--	36	.05	.06	.42	.48	2.1	.02
FEB 15...	4.7	.0	8.3	55	36	.07	.01	.39	.40	1.8	.03
MAY 12...	6.0	.0	5.0	47	34	.06	.01	--	--	--	.05
JUL 26...	6.6	.0	4.8	47	35	.06	.00	--	--	--	.05

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 16...	2	6	0	<10	30	0	5	<10	360	20000	2	<10

DATE	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)
DEC 16...	30	300	.0	.1	10	40	8.6	.00	0	.0	0	.00

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07367500 CHENIERE BRAKE AT DAM, NEAR BAWCOMVILLE, LA--Continued

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
DEC 16...	.0	.00	.0	.0	0	.00	.0	.00	4.3	.00	.0	.00

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
DEC 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 16...	0	.00	.0	.00	.00	.00

07369270 TURKEY CREEK LAKE (BIG BRAKE) NEAR EXTENSION, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
DEC 15...	1630	169	6.9	9.5	40	9	11.4	5.4	B14	B20	--	43
FEB 17...	1030	166	7.0	10.0	100	55	9.7	3.4	2	--	B6	37
MAY 13...	1015	110	7.2	27.5	40	30	9.2	2.5	--	--	360	30
JUL 27...	1500	125	8.6	34.5	20	8	10.6	8.2	<5	--	4600	35

RED RIVER BASIN

07369270 TURKEY CREEK LAKE (BIG BRAKE) NEAR EXTENSION, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NON-CAR-BONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
DEC 15...	7	11	3.7	14	39	.9	3.3	44	0	36	8.9	1.6
FEB 17...	10	8.9	3.5	14	43	1.0	3.2	32	0	26	5.1	2.9
MAY 13...	4	7.6	2.6	8.2	35	.7	2.9	31	0	25	3.1	2.8
JUL 27...	2	8.8	3.1	8.6	33	.6	3.0	38	1	33	.2	1.1

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 15...	27	.2	1.2	94	84	.13	.08	.88	.96	4.3	.09
FEB 17...	31	.1	4.8	99	84	.13	.32	--	--	--	.17
MAY 13...	15	.1	1.2	56	56	.08	.01	--	--	--	.09
JUL 27...	15	.0	1.9	74	61	.10	.00	--	--	--	.09

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 15...	2	12	0	<10	4	0	3	<10	20	21000	0	<10

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)
DEC 15...	5	950	.0	.1	10	30	8.6	.00	3	.0	0	.00

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)
DEC 15...	.0	.00	.0	.0	0	.00	.0	.00	33	.00	20	.00

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07369270 TURKEY CREEK LAKE (BIG BRAKE) NEAR EXTENSION, LA--Continued

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
DEC 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 15...	0	.00	.0	.00	.00	.00

324850091111000 LAKE PROVIDENCE NORTH OF LAKE PROVIDENCE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA, MG)
DEC 16...	1115	230	7.7	9.0	30	8	11.0	4.1	811	28	--	95
FEB 16...	1110	221	7.9	8.5	5	7	11.8	4.7	<1	--	0	99
MAY 12...	1150	218	8.0	25.0	5	7	9.4	2.0	<5	--	--	90
JUL 27...	1030	172	9.0	29.5	10	2	7.2	6.3	88	--	130	65

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
DEC 16...	0	24	8.4	8.9	16	.4	3.7	139	0	114	4.4	2.7
FEB 16...	0	26	8.2	8.6	15	.4	3.9	132	0	108	2.7	3.9
MAY 12...	0	24	7.3	8.0	16	.4	3.9	128	0	110	2.0	3.4
JUL 27...	0	14	7.3	8.8	21	.5	4.0	82	8	81	.2	2.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

324850091111000 LAKE PROVIDENCE NORTH OF LAKE PROVIDENCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 16...	5.0	.2	3.1	135	125	.18	.00	.64	.64	2.8	.06
FEB 16...	4.8	.1	.4	115	121	.16	.01	--	--	--	.05
MAY 12...	5.0	.1	2.5	114	117	.16	.35	--	--	--	.04
JUL 27...	5.7	.1	4.8	100	95	.14	.00	--	--	--	.08

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 16...	2	14	0	<10	30	0	2	<10	10	<0000	0	<10

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)
DEC 16...	10	1100	.0	.0	10	40	6.2	.00	0	.0	770	.00

DATE	PCN TOTAL IN BOTTOM MATERIAL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)
DEC 16...	.0	.00	.0	.0	0	.00	.0	.00	16	.00	32	.00

DATE	DI-AZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 16...	.0	.00	.6	.00	.4	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	METHYL TRI-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOTTOM MATERIALS (UG/KG DRY SOLIDS)	TOTAL PARA-THION (UG/L)	PARA-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)
DEC 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

324850091111000 LAKE PROVIDENCE NORTH OF LAKE PROVIDENCE, LA--Continued

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 16...	0	.00	.0	.00	.20	.00

07369647 LAKE ST. JOSEPH NEAR NEWELLTON, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
DEC 15...	1240	219	7.5	9.5	50	9	13.0	9.4	>5	160	--	97
FEB 15...	1430	176	7.6	11.5	40	20	12.5	--	0	--	3	80
MAY 10...	1440	136	7.4	25.5	30	5	--	--	B30	--	B22	63
JUL 28...	1140	178	8.9	29.5	50	10	8.0	7.9	<5	--	46	79

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AU- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
DEC 15...	0	26	7.7	4.4	8	.2	5.4	128	0	105	6.5	3.2
FEB 15...	1	22	6.0	3.8	9	.2	5.0	96	0	79	3.9	5.5
MAY 10...	1	18	4.4	2.9	8	.2	4.4	76	0	62	4.8	3.7
JUL 28...	2	22	5.8	3.8	9	.2	5.0	94	0	77	.2	1.6

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
DEC 15...	4.3	.2	.8	129	115	.18	.00	1.8	1.8	8.0	.14
FEB 15...	3.7	.1	.1	93	94	.13	.01	--	--	--	.18
MAY 10...	3.4	.1	5.8	79	80	.11	.00	--	--	--	.23
JUL 28...	3.6	.1	18	131	106	.18	.00	--	--	--	1.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07369647 LAKE ST. JOSEPH NEAR NEWELLTON, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 15...	3	20	0	<10	40	0	5	20	10	<3000	0	10
DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLY-CHLORINATED NAPHTHALENES (UG/L)
DEC 15...	0	1100	.0	.0	10	80	13	.00	0	.0	0	.00
DATE	PCN TOTAL IN BOTTOM MATERIAL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)
DEC 15...	.0	.00	.0	.0	0	.00	22	.00	35	.00	10	.01
DATE	DI-AZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
DATE	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	METHYL TRI-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOTTOM MATERIALS (UG/KG DRY SOLIDS)	TOTAL PARA-THION (UG/L)	PARA-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)
DEC 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0
DATE			TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)				
DEC 15...			0	.00	.0	.17	.00	.00				

RED RIVER BASIN

07369648 LAKE BRUIN AT LAKE BRUIN PARK, NEAR ST. JOSEPH, LA

WATER QUALITY DATA: WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA+MG) (MG/L)
DEC 15...	1110	189	7.4	9.5	20	5	9.7	3.0	66	810	--	83
FEB 15...	1330	182	7.9	8.0	5	8	11.7	4.3	0	--	<1	83
MAY 10...	1340	156	8.1	25.5	5	6	11.4	3.4	<5	--	81500	69
JUL 28...	1030	130	9.1	30.5	15	6	9.0	3.6	<5	--	60	54

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
DEC 15...	0	23	6.3	3.1	7	.1	4.0	110	0	90	7.0	2.3
FEB 15...	0	23	6.3	3.0	7	.1	4.2	106	0	87	2.1	2.9
MAY 10...	0	19	5.2	2.7	7	.1	4.0	92	0	75	1.2	2.6
JUL 28...	0	13	5.3	3.0	10	.2	4.0	62	7	68	.1	1.9

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 15...	2.6	.2	2.2	100	98	.14	.56	.63	1.2	5.3	.04
FEB 15...	2.7	.1	.3	93	95	.13	.60	--	--	--	.04
MAY 10...	2.8	.1	.5	78	82	.11	1.5	--	--	--	.01
JUL 28...	2.7	.1	1.3	76	72	.10	.00	--	--	--	.05

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 15...		33	0	<10	40	0	2	20	10	20000	0	<10

DATE	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)
DEC 15...	0	1000	.0	.1	10	60	5.8	.00	0	.0	0	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07369648 LAKE BRUIN AT LAKE BRUIN PARK, NEAR ST. JOSEPH, LA--Continued

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
DEC 15...	.0	.00	.0	.0	56	.00	.0	.00	41	.00	25	.00

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
DEC 15...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 15...	0	.00	.0	.06	.00	.00

07371515 MUDDY CREEK AT LA 4, NEAR DANVILLE, LA

DATE	TIME	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
APR 21...	1200	5.8	19.0	80	16	0	3.8	1.5	4.2	35	.5	1.2

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
APR 21...	20	0	16	51	3.4	4.7	.0	12	82	44	.06

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07371515 MUDDY CREEK AT LA 4, NEAR DANVILLE, LA--Continued

DATE	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	CESIUM 137 DIS-SOLVED (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	TOTAL TRITIUM (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED STRONTIUM 90 (PC/L)
APR 21...	40	1100	2000	1.6	5.1	4.0	<1.0	.14	<480	.05	.7

07371540 FOUSE BAYOU AT LA 155, NEAR DANVILLE, LA

DATE	TIME	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
APR 21...	0900	6.7	18.0	80	43	10	14	2.0	45	68	1.7	40
AUG 02...	1100	6.2	--	43	16	0	5.3	.6	5.4	41	1.1	22

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	TOTAL FILTERABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L)
APR 21...	0	33	13	14	72	.0	14	300	184	.25	--	--
AUG 02...	0	18	22	5.1	4.0	.1	13	--	49	.07	.71	.07

DATE	DIS-SOLVED ORTHOPHOSPHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	CESIUM 137 DIS-SOLVED (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	TOTAL TRITIUM (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED STRONTIUM 90 (PC/L)
APR 21...	--	50	1100	660	<4.0	5.9	5.0	<1.0	.11	<480	.03	.7
AUG 02...	.21	30	400	230	--	--	--	--	--	--	--	--

07373144 LITTLE RIVER NEAR ROGERS, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
DEC 14...	1015	515	7.0	9.0	80	20	10.7	2.4	--	840	69	--
FEB 17...	1430	175	6.8	11.0	100	30	9.5	3.4	--	72	--	12
MAY 11...	1015	109	8.1	22.5	100	30	5.2	1.1	--	844	--	824
AUG 09...	0925	371	7.4	31.5	40	20	7.6	5.2	<5	--	--	834

RED RIVER BASIN

07373144 LITTLE RIVER NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC 14...	37	0	11	2.2	88	82	6.3	4.0	52	0	43	8.3
FEB 17...	19	3	5.4	1.4	24	70	2.4	2.1	20	0	16	5.1
MAY 11...	24	12	2.4	1.2	13	68	1.7	1.8	15	0	12	.2
AUG 09...	27	0	8.4	1.5	59	80	4.9	3.6	52	0	43	3.3

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE IN BOT- TOM MA- TERIAL (N) (MG/KG)	TOTAL NITRITE (N) (MG/L)
DEC 14...	57	87	.1	16	318	292	.43	.13	.13	.58	.50	.01
FEB 17...	27	21	.0	13	121	104	.16	.02	.00	.00	--	.01
MAY 11...	13	14	.0	9.9	87	64	.12	.12	.10	.44	2.0	.01
AUG 09...	17	61	.2	15	216	192	.29	.03	.04	.18	--	.00

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE IN BOT- TOM MA- TERIAL (N) (MG/KG)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL AMMONIA NITRO- GEN IN BOTTOM MAT. (MG/KG)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)
DEC 14...	.01	.03	.0	.14	.14	.5	.14	.14	28	.18	.51	.34
FEB 17...	.00	.00	--	.03	.00	--	.05	.04	--	.05	.65	.60
MAY 11...	.00	.03	.0	.13	.11	2.0	.09	.08	13	.10	.63	.64
AUG 09...	.00	.00	--	.04	.04	--	.08	.04	--	.05	.64	.69

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL NITRO- GEN IN BOTTOM MATERI- AL (N) (MG/KG)	TOTAL PHOS- PHORUS (P) (MG/L)	PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (PO4) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
DEC 14...	.65	.48	3200	.79	3.5	3200	.09	.28	.28	.02	.04
FEB 17...	.70	.64	--	.73	3.2	--	.06	.18	.18	.01	.01
MAY 11...	.72	.72	1400	.85	3.7	1400	.60	1.8	1.8	.01	.57
AUG 09...	.89	.73	--	.93	4.1	--	.12	.37	.37	.04	.07

RED RIVER BASIN

07373144 LITTLE RIVER NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED ORTHO-PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO-PHOSPHATE (PO4) (MG/L)	TOTAL ORTHO + HYDRO-PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO-PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORGANIC PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED CADMIUM (CD) (UG/L)
DEC 14...	.01	.03	.06	.01	.03	.01	100	2	2	0
FEB 17...	.00	.00	.04	.01	.02	.00	--	1	--	0
MAY 11...	.00	.00	.58	.01	.02	.00	44	1	0	0
AUG 09...	.03	.09	.08	.03	.00	.01	--	--	--	--

DATE	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED MANGANESE (MN) (UG/L)
DEC 14...	<10	10	0	6	<10	340	7500	2	<10	140
FEB 17...	--	--	0	4	--	270	--	2	--	110
MAY 11...	<10	<10	0	9	<10	610	930	3	<10	180
AUG 09...	--	--	--	--	--	620	--	--	--	140

DATE	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)
DEC 14...	140	.0	.0	20	10	13	.00	0	5
FEB 17...	--	.0	--	10	--	7.6	--	--	--
MAY 11...	60	.0	.1	50	30	7.5	.00	0	1
AUG 09...	--	--	--	--	--	7.8	--	--	--

DATE	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLY-CHLORINATED NAPHTHALENES (UG/L)	PCN TOTAL IN BOTTOM MATERIAL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)
MAY 11...	.0	0	.00	.0	.00	.0	.0	0	.00	.0	.00	.0

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	DI-AZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DIELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)
MAY 11...	.00	.0	.01	.0	.00	.0	.00	.0	.00	.0	.00	.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07373144 LITTLE RIVER NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)
MAY 11...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	POTEN- TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
MAY 11...	.0	.00	.0	0	0	.00	.0	.12	.19	.00	1.0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA

DEC. 14, 1976 1015 HOURS

PHYTOPLANKTON 460 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...SCENEDESMACEAE		
....SCENEDESMUS	20	4
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	5	1
....MELOSIRA	2	1
..PENNALES		
...GOMPHONEMACEAE		
....GOMPHONEMA	2	1
CYANOPHYTA		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	94	20
...OSCILLATORIALES		
....OSCILLATORIACEAE	310	66
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	7	2
....TRACHELOMONAS	22	5
PYRRHOPHYTA		
.DINOPHYCEAE		
..PERIDINIALES		
...PERIDINIACEAE		
....PERIDINIUM	2	1

FEB. 17, 1977 1430 HOURS

PHYTOPLANKTON 3,600 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...MICRACTINIACEAE	88	2
....MICRACTINIUM		
...OOCYSTACEAE	120	3
...ANKISTRODESMUS	160	5
...DICTYOSPHAERIUM	6	0
...SELENASTRUM		
..SCENEDESMACEAE		
...SCENEDESMUS	130	3
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	25	1
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	6	0
....MELOSIRA	6	0
..PENNALES		
...CYMBELLACEAE		
....AMPHORA		
...NITZSCHIA		
....NITZSCHIA	44	1
CYANOPHYTA		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	3,000	83
EUGLENOPHYTA		
.CYTPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	13	0
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	6	0
PYRRHOPHYTA		
.DINOPHYCEAE		
..PERIDINIALES		
...GLENODINIACEAE		
....GLENODINIUM		0

RED RIVER BASIN

312815092092000 CATAHOULA LAKE NEAR ROGERS, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
DEC 14...	1030	503	7.0	8.0	100	20	10.0	2.3	--	B60	160	--
FEB 17...	1445	182	6.8	11.5	100	30	9.6	3.0	--	54	--	B6
MAY 11...	1035	102	6.5	22.0	100	40	7.2	1.6	--	B16	--	220
AUG 09...	0940	372	7.2	31.0	70	45	4.6	3.1	B300	B100	--	64

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC 14...	32	0	9.6	2.0	87	84	6.7	3.9	59	0	48	9.4
FEB 17...	20	3	5.4	1.5	26	72	2.6	2.1	20	0	16	5.1
MAY 11...	16	5	4.9	.9	13	61	1.4	1.7	14	0	11	7.1
AUG 09...	27	0	7.5	2.0	59	81	4.9	2.9	49	0	40	4.9

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL NITRITE (N) (MG/L)
DEC 14...	55	79	.2	17	307	284	.42	.14	.14	.62	.50	.01
FEB 17...	27	25	.0	13	129	110	.18	.02	.01	.04	--	.01
MAY 11...	9.4	16	.0	8.9	77	63	.10	.06	.06	.27	4.0	.01
AUG 09...	29	65	.1	17	209	215	.28	1.8	1.7	7.5	--	.02

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOTTOM MATERIAL (MG/KG)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA NITROGEN IN BOTTOM MATERIAL (MG/KG)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
DEC 14...	.01	.0	.15	.15	.5	.14	.13	21	.17	.55	.52	.69
FEB 17...	.00	--	.03	.01	--	.05	.02	--	.03	.63	.63	.68
MAY 11...	.00	.0	.07	.06	4.0	.10	.02	11	.03	.73	.81	.83
AUG 09...	.00	--	1.8	1.7	--	.08	.08	--	.10	.91	.67	.99

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

312815092092000 CATAHOULA LAKE NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SUS- PENDE KJEL. NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL KJEL. NITRO- GEN IN BOTTOM MATL. (MG/KG)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL NITRO- GEN IN BOTTOM MATERI- AL (N) (MG/KG)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS (P04) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)
DEC 14...	.04	.65	1300	.84	3.7	1300	.12	.37	.04	.08	.01	.03
FEB 17...	.03	.65	--	.71	3.1	--	.07	.18	.03	.01	.00	.00
MAY 11...	.00	.83	630	.90	4.0	630	.09	.28	.01	.04	.00	.00
AUG 09...	.24	.75	--	2.8	12	--	.11	.34	.02	.11	.02	.06

DATE	TOTAL ORTHO + HYDRO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO + HYDRO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)
DEC 14...	.08	.01	.04	.03	54	2	2	0	<10	<10
FEB 17...	.04	.00	.03	.03	--	0	--	0	--	--
MAY 11...	.04	.00	.05	.01	56	1	1	0	<10	<10
AUG 09...	.11	.02	.00	.00	--	0	--	0	--	--

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)
DEC 14...	0	7	<10	280	4800	2	<10	100	90
FEB 17...	0	4	--	180	--	2	--	120	--
MAY 11...	0	4	<10	460	880	3	<10	90	50
AUG 09...	0	1	--	140	--	3	--	170	--

DATE	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOT- TOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
DEC 14...	.2	.0	20	<10	--	.00	0	0	140
FEB 17...	.0	--	0	--	2.8	--	--	--	450
MAY 11...	.0	.1	20	10	8.1	.00	0	0	--
AUG 09...	.0	--	40	--	15	--	--	--	--

DATE	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOT- TOM MA- TERIAL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOT- TOM MA- TERIAL (UG/KG)
MAY 11...	.0	0	.00	.0	.00	.0	.0	0	.00	.0	.00	.0

RED RIVER BASIN

312815092092000 CATAHOULA LAKE NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)
MAY 11...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
DATE	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)
MAY 11...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
DATE	TOTAL MIPEX (UG/L)	MIPEX IN BOT-TOM MA-TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA-THION (UG/L)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
MAY 11...	.00	.0	.00	.0	0	0	.00	.0	.29	.10	.00

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA

DEC. 14, 1976 1030 HOURS

PHYTOPLANKTON 140 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	8	6
....DICTYOSPHAERIUM	17	12
...SCENEDESMACEAE		
....SCENEDESMUS	51	37
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCAEAE		
....CYCLOTELLA	4	3
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	25	19
....TRACHELOMONAS	30	22

FEB. 17, 1977 1445 HOURS

PHYTOPLANKTON 450 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	84	18
...SCENEDESMACEAE		
....SCENEDESMUS	47	10
..TETRASPORALES		
...COCCOMYXACEAE		
....ELAKATOTHRIX	16	3

FEB. 17, 1977 1445 HOURS -- Continued

PHYTOPLANKTON 450 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCAEAE		
....CYCLOTELLA	10	2
....MELOSIRA	58	13
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	16	3
...CYMBELLACEAE		
....AMPHORA	5	1
...DIATOMACEAE		
....DIATOMA	5	1
...FRAGILARIACEAE		
....SYNEDRA	5	1
...GOMPHONEMACEAE		
....GOMPHONEMA	5	1
...NAVICULACEAE		
....GYROSIGMA	10	2
....NAVICULA	26	6
....PINNULARIA	47	10
...NITZSCHACEAE		
....NITZSCHIA	94	21
CHRYSTOPHYCEAE		
.CHRYSONOMADALES		
...OCHROMONADACEAE		
....DINOBRYON	16	3
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	10	2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

312910092072000 CATAHOULA LAKE NEAR DEVILLE, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
DEC 14...	1045	534	7.2	8.0	100	80	10.5	2.5	--	95	120	--
FEB 17...	1500	150	6.8	11.0	80	30	10.8	3.6	--	823	--	<5
MAY 11...	1045	94	6.8	22.0	100	80	7.7	.8	--	88	--	430
AUG 09...	0950	368	7.7	31.0	70	65	9.7	5.2	88000	8550	--	150
DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
DEC 14...	38	0	11	2.6	110	85	7.7	3.9	57	0	47	5.8
FEB 17...	18	5	5.2	1.3	20	68	2.0	2.0	16	0	13	4.1
MAY 11...	19	4	6.2	8.0	9.7	49	1.0	2.0	18	0	15	4.6
AUG 09...	29	0	8.1	2.1	63	81	5.1	2.5	48	0	39	1.5
DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL NITRITE (N) (MG/L)
DEC 14...	56	100	.2	13	343	326	.47	.18	.18	.80	4.0	.03
FEB 17...	21	22	.0	12	101	92	.14	.01	.01	.04	--	.01
MAY 11...	5.9	13	.0	8.0	56	56	.08	.33	.33	1.5	--	.07
AUG 09...	27	66	.1	14	204	207	.28	.06	.06	.27	--	.02
DATE	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)	DISSOLVED NITRATE PLUS NITRITE (N) (MG/L)	TOTAL NITRATE PLUS NITRITE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA NITROGEN IN BOTTOM MATERIAL (MG/KG)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
DEC 14...	.01	.03	.0	.21	.19	4.0	.16	.05	130	.06	1.2	.88
FEB 17...	.01	.03	--	.02	.02	--	.04	.00	--	.00	.57	.56
MAY 11...	.01	.03	.0	.40	.34	--	.13	.07	16	.09	.82	.60
AUG 09...	.00	.00	--	.08	.06	--	.10	.07	--	.09	1.3	1.1

RED RIVER BASIN

312910092072000 CATAHOULA LAKE NEAR DEVILLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDE KJEL. NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL KJEL. NITRO- GEN IN BOTOM MAT. (MG/KG)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL NITRO- GEN IN BOTOM MATERI- AL (N) (MG/KG)	TOTAL PHOS- PHORUS (P) (MG/L)	PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (PO4) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
DEC 14...	1.4	.47	.93	19000	1.6	7.1	19000	.22	.67	.67	.02	.12
FEB 17...	.61	.05	.56	--	.63	2.8	--	.06	.18	.18	.01	.02
MAY 11...	.95	.28	.67	3700	1.4	6.0	3700	.22	.67	.67	.07	.13
AUG 09...	1.4	.20	1.2	--	1.5	6.6	--	.18	.55	.55	.02	.18

DATE	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHATE (PO4) (MG/L)	TOTAL ORTHO + HYDRO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO + HYDRO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOT- TOM MA- TERIAL (UG/G)	DIS- SOLVED CAD- MIUM (CD) (UG/L)
DEC 14...	.01	.03	.18	.01	.04	.01	410	2	8	0
FEB 17...	.00	.00	.05	.00	.00	.01	--	0	--	0
MAY 11...	.01	.03	.17	.02	.05	.05	1000	1	14	0
AUG 09...	.01	.03	.18	.02	.00	.00	--	0	--	0

DATE	TOTAL CADMIUM IN BOTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTOM MA- TERIAL (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTOM MA- TERIAL (UG/G)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTOM MA- TERIAL (UG/G)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTOM MA- TERIAL (UG/G)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
DEC 14...	<10	20	0	7	<10	440	18000	2	<10	7
FEB 17...	--	--	0	5	--	160	--	0	--	70
MAY 11...	<10	20	0	5	<10	100	30000	3	<10	20
AUG 09...	--	--	0	3	--	110	--	6	--	90

DATE	TOTAL MANGA- NESE IN BOTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)
DEC 14...	1500	.2	.1	10	40	6.2	.00	1	3
FEB 17...	--	.0	--	10	--	7.8	--	--	--
MAY 11...	580	.0	.0	20	40	8.5	.00	1	0
AUG 09...	--	.1	--	60	--	11	--	--	--

DATE	TOTAL PCB (UG/L)	PCB IN BOTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTOM MA- TERIAL (UG/KG)
MAY 11...	.0	0	.00	.0	.00	.0	.0	0	.00	4.8	.00	3.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

312910092072000 CATAHOULA LAKE NEAR DEVILLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)
MAY 11...	.00	2.6	.01	.0	.00	.0	.00	.0	.00	.0	.00	.0
DATE	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	
MAY 11...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	
DATE	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	POTEN- TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	
MAY 11...	.0	.00	.0	0	0	.00	.0	.04	.01	.00	7.9	

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA

DEC. 14, 1976 1045 HOURS

PHYTOPLANKTON 5,500 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
..COSCONODISCEAE		
..CYCLOTELLA	4,700	86
CYANOPHYTA		
..MYXOPHYCEAE		
..OSCILLATORIALES		
..OSCILLATORIAEAE		
..LYNGBYA	640	12
EUGLENOPHYTA		
..EUGLENOPHYCEAE		
..EUGLENALES		
..EUGLENAEAE		
..TRACHELOMONAS	130	2

FEB. 17, 1977 1500 HOURS

PHYTOPLANKTON 1,200 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
..CHLOROCOCCALES		
..CHARACIACEAE		
..SCHROEDERIA	9	1
..OOCYSTACEAE		
..ANKISTRODESMUS	480	40
..DICTYOSPHAERIUM	250	21
..SELENASTRUM	9	1
..SCENEDESMACEAE		
..SCENEDESMUS	90	7
..CRUCIGENIA	18	1
..VOLVOCALES		
..CHLAMYDOMONADACEAE		

FEB. 17, 1977 1500 HOURS -- Continued

PHYTOPLANKTON 1,200 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
..CHLAMYDOMONAS	72	6
..VOLVOCAEAE		
..GONIUM		0
..PANDORINA		0
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
..COSCONODISCEAE		
..CYCLOTELLA	9	1
..PENNALES		
..CYMBELLACEAE		
..CYMBELLA	9	1
..FRAGILARIACEAE		
..SYNEDRA	18	1
..NAVICULACEAE		
..NAVICULA	9	1
..NITZSCHIAEAE		
..NITZSCHIA	120	10
CYANOPHYTA		
..MYXOPHYCEAE		
..OSCILLATORIALES		
..OSCILLATORIAEAE		
..LYNGBYA	36	3
EUGLENOPHYTA		
..CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
..CRYPTOMONODACEAE		
..CRYPTOMONAS	45	4
..EUGLENOPHYCEAE		
..EUGLENALES		
..EUGLENAEAE		
..EUGLENA	18	1
PYRRHOPHYTA		
..DINOPHYCEAE		
..PERIDINIALES		
..GLENODINIACEAE		
..GLENODINIUM	18	1

RED RIVER BASIN

313355092042000 CATAHOULA LAKE NEAR WHITEHALL, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA+MG) (MG/L)
DEC 14...	0945	120	6.6	8.0	40	75	11.0	6.1	500	2700	--	30
FEB 17...	1330	75	6.6	11.5	120	90	10.9	4.5	816	--	37	16
MAY 11...	0925	95	6.9	22.0	100	60	6.3	1.3	812	--	140	20

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
DEC 14...	12	7.6	2.6	9.1	38	.7	2.5	22	0	18	8.8	12
FEB 17...	6	4.1	1.3	7.7	48	.8	2.0	12	0	10	4.8	9.1
MAY 11...	5	5.2	1.7	10	49	1.0	2.0	18	0	15	3.6	6.9

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	TOTAL NITRATE IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)
DEC 14...	13	.2	12	84	72	.11	.50	.49	2.2	3.5	.02	.01
FEB 17...	9.7	.0	9.2	66	49	.09	.03	.03	.13	--	.04	.00
MAY 11...	13	.1	8.5	81	59	.11	.28	.28	1.2	--	.04	.01

DATE	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRATE IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)	DISSOLVED NITRATE PLUS NITRITE (N) (MG/L)	TOTAL NITRATE PLUS NITRITE IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL AMMONIA NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
DEC 14...	.03	.0	.52	.50	3.5	.14	.04	19	.05	1.1	1.1	1.2
FEB 17...	.00	--	.06	.03	--	.12	.00	--	.00	.88	.57	1.0
MAY 11...	.03	.0	.29	.29	--	.13	.12	26	.15	.97	.73	1.1

DATE	SUSPENDED SOLIDS (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MATERIAL (MG/KG)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHATE (PO4) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)
DEC 14...	.10	1.1	4900	1.7	7.5	4900	.17	.52	.52	.01	.09	.00
FEB 17...	.43	.57	--	1.1	4.7	--	.17	.52	.52	.02	.07	.00
MAY 11...	.25	.85	5100	1.4	6.2	5100	.24	.74	.74	.05	.12	.03

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

313355092042000 CATAHOULA LAKE NEAR WHITEHALL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	TOTAL ORTHO + HYDRO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO + HYDRO. PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)
DEC 14...	.00	.14	.00	.00	.01	380	2	9	0	<10
FEB 17...	.00	.14	.00	.03	.02	--	0	--	0	--
MAY 11...	.09	.22	.04	.03	.01	1200	1	15	0	<10

DATE	TOTAL CHRO- MUM IN BOTTOM MA- TERIAL (UG/G)	HEXA- VALENT CHRO- MUM (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)
DEC 14...	20	0	6	<10	120	15000	0	<10	110	1700
FEB 17...	--	0	6	--	100	--	1	--	70	--
MAY 11...	20	0	7	<10	150	25000	3	<10	110	420

DATE	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)
DEC 14...	.1	.1	20	<20	9.0	.00	--	5	1300
FEB 17...	.0	--	10	--	3.6	--	--	--	9100
MAY 11...	.0	.0	20	20	--	.00	0	0	--

DATE	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPHE- LENES (UG/L)	PCN TOTAL IN BOTTOM MATR. DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)
MAY 11...	.0	0	.00	.0	.00	.0	.0	0	.00	16	.00	14

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)
MAY 11...	.00	4.4	.01	.0	.00	.0	.00	.0	.00	.0	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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RED RIVER BASIN

313355092042000 CATAHOULA LAKE NEAR WHITEHALL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/L)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)
MAY 11...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
DATE	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
MAY 11...	.00	.0	.00	.0	0	0	.00	.0	.00	.00	.00

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA

DEC. 14, 1976 0945 HOURS

FEB. 17, 1977 1330 HOURS -- Continued

PHYTOPLANKTON 1,300 CELLS/ML

PHYTOPLANKTON 9,100 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
..CHLOROCOCCALES		
..HYDRODICTYACEAE		
....PEDIASTRUM	110	8
..OOCYSTACEAE		
....ANKISTRODESMUS	200	15
....KIRCHNERIELLA	13	1
..SCENEDESMACEAE		
....SCENEDESMUS	110	8
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
..PENNIALES		
....SURIPELLACEAE		
....SURIPELLA	13	1
..XANTHOPHYCEAE		
....HETEROCOCCALES		
....CHLOROTHECIACEAE		
....OPHIOCYTIUM	13	1
CYANOPHYTA		
..MYXOPHYCEAE		
..OSCILLATORIALES		
....NOSTOCACEAE		
....ANABAENA	110	8
..OSCILLATORIA		
....OSCILLATORIA	250	20
EUGLENOPHYTA		
..EUGLENOPHYCEAE		
..EUGLENALES		
....EUGLENA	27	2
....PHACUS	27	2
....TRACHELOMONAS	420	33

FEB. 17, 1977 1330 HOURS

PHYTOPLANKTON 9,100 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
..CHLOROCOCCALES		
..OOCYSTACEAE		
....DICHOTOMOCOCCUS	580	6
....ANKISTRODESMUS	1,800	20
....CHODATELLA	120	1
....DICTYOSPHAERIUM	170	2

ORGANISM NAME	CELLS/ML	PER_CENT
...SELENASTRUM	290	3
...SCENEDESMACEAE		
...CRUCIGENIA	230	3
...SCENEDESMUS	580	6
...TETRASTRUM	690	8
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
...CHLAMYDOMONAS	58	1
...PHACOTACEAE		
...PTEROMONAS	58	1
..ZYGEMATALES		
...DESMIDIACEAE		
...CLOSTERIUM		2
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
...MELOSIRA	1,200	13
..PENNIALES		
...ACHNANTHACEAE		
...ACHNANTHES		2
...FRAGILARIACEAE		
...ASTERIONELLA	170	2
...SYNEDRA	58	1
...NITZSCHACEAE		
...NITZSCHIA	1,900	21
..CHRYSTOPHYCEAE		
..CHRYSONOMADALES		
...CHROMULINACEAE		
...CHRYSOCOCCUS	58	1
...MALLONADACEAE		
...MALLONAS	58	1
...OCHROMONADACEAE		
...OCHROMONAS	120	1
CYANOPHYTA		
..MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIA		
...LYNGBYA	580	6
EUGLENOPHYTA		
..CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
..EUGLENOPHYCEAE	170	2
..EUGLENALES		
....EUGLENA		
....EUGLENA		2
....PHACUS	58	1
....TRACHELOMONAS	120	1

RED RIVER BASIN

313730091325000 LAKE CONCORDIA AT FERRIDAY, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI (COL. PER 100 ML)	HARDNESS (CA, MG) (MG/L)
DEC 14...	1745	276	7.8	9.0	20	9	10.6	6.0	8	36	--	120
FEB 15...	1040	283	7.9	9.0	10	10	9.9	6.2	5	--	5	120
MAY 10...	1100	260	7.8	24.5	5	6	7.8	3.2	40	--	42	110
JUL 28...	0800	244	8.5	30.5	15	4	6.5	3.6	<5	--	814	98

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHORIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
DEC 14...	0	27	13	11	16	.4	4.0	166	0	136	4.2	2.3
FEB 15...	0	29	12	10	15	.4	4.1	170	0	139	3.4	2.7
MAY 10...	0	26	11	8.4	14	.3	3.8	154	0	130	3.9	2.5
JUL 28...	0	21	11	9.4	17	.4	3.9	130	2	110	.7	.9

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
DEC 14...	8.6	.3	3.4	--	151	.21	.01	.98	.99	4.4	.10
FEB 15...	8.6	.1	.5	149	151	.20	.03	--	--	--	.08
MAY 10...	7.4	.1	3.1	129	138	.18	.00	--	--	--	.04
JUL 28...	7.8	.1	7.6	138	128	.19	.00	--	--	--	.10

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
DEC 14...	3	16	0	<10	30	0	4	10	10	16000	0	<10

DATE	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)
DEC 14...	0	1100	.0	.2	20	90	7.7	.00	--	.0	0	.00

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

313730091325000 LAKE CONCORDIA AT FERRIDAY, LA--Continued

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
DEC 14...	.0	.00	.0	.0	0	.00	.0	.00	6.1	.00	2.5	.00

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC 14...	.0	.00	.0	.00	.9	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
DEC 14...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC 14...	0	.00	.0	.00	.00	.00

MISSISSIPPI RIVER DELTA

305945091502800 YELLOW BAYOU (STATION YB-1) NEAR SIMMESPORT, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT 12...	0945	289	7.5	19.0	35	6.2	67	--	--	--	--	185
NOV 19...	1015	284	7.2	11.5	--	8.7	79	140	0	37	11	180
DEC 15...	1025	320	--	9.5	12	4.0	35	150	3	37	13	179
JAN 28...	1005	301	7.3	12.0	50	7.4	69	140	0	37	12	182

MISSISSIPPI RIVER DELTA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

305945091502800 YELLOW BAYOU (STATION YB-1) NEAR SIMMESPORT, LA--Continued

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SUS- PENDE SOLIDS (MG/L)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT 12...	0	152	9.4	--	--	--	172	.23	--	--	--	--
NOV 19...	0	148	18	9.4	4.4	--	170	.23	87	156000	.00	.01
DEC 15...	0	147	--	--	11	9.4	184	.25	25	--	.04	.01
JAN 28...	0	149	15	6.0	4.8	8.5	168	.23	54	--	.15	.04

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 12...	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	.01	.21	1.5	1.7	1.7	7.6	.28	.04	30	10	11
DEC 15...	.05	.11	.46	.57	.62	2.7	.33	.16	70	190	8.6
JAN 28...	.19	.30	.70	1.0	1.2	5.3	.10	.05	30	20	5.6

305835091510000 YELLOW BAYOU (STATION YB-2) NEAR SIMMESPORT, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT 12...	1050	257	7.1	14.5	25	2.0	19	130	4	33	11	153
NOV 19...	1110	227	6.7	11.5	--	3.7	34	100	5	26	9.0	118
DEC 15...	1135	276	6.3	10.0	15	3.0	27	110	0	27	9.4	135
JAN 28...	1100	297	7.0	11.0	60	3.4	31	140	0	37	12	188

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SUS- PENDE SOLIDS (MG/L)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT 12...	0	125	19	10	3.5	13	161	.22	209	--	.00	.01
NOV 19...	0	97	38	14	6.4	9.3	128	.17	28	198000	.00	.01
DEC 15...	0	111	108	8.9	11	11	157	.21	66	--	.01	.00
JAN 28...	0	154	30	7.6	5.9	6.9	176	.24	362	--	.00	.00

MISSISSIPPI RIVER DELTA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

305835091510000 YELLOW BAYOU (STATION YB-2) NEAR SIMMESPORT, LA--Continued

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 12...	.01	.20	3.2	3.4	3.4	15	.60	.09	110	70	18
NOV 19...	.01	.30	1.8	2.1	2.1	9.3	.90	.21	40	70	16
DEC 15...	.01	.19	.66	.85	.86	3.8	.75	.38	50	280	15
JAN 28...	.00	.17	1.1	1.3	1.3	5.8	.68	.13	70	40	9.3

305533091493600 YELLOW BAYOU (STATION YB-5) NEAR ODENBURG, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT 12...	1330	387	7.4	22.5	180	2.7	30	180	2	50	14	217
NOV 19...	1345	199	7.0	12.5	--	8.0	75	82	15	21	7.2	82
DEC 15...	1400	281	6.8	10.6	30	6.8	61	120	10	30	10	134
JAN 28...	1245	293	7.4	13.0	40	9.8	92	130	0	33	11	160

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SUS- PENDE SOLIDS (MG/L)	LOSS ON IGNI- TION IN BOTTOM MA- TERIAL (MG/KG)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT 12...	0	178	14	25	8.8	12	240	.33	457	--	.01	.04
NOV 19...	0	67	13	16	9.4	6.6	124	.17	145	55400	.22	.04
DEC 15...	0	110	34	17	8.1	9.1	166	.23	48	--	.24	.01
JAN 28...	0	131	10	12	6.2	3.1	167	.23	23	--	.00	.01

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 12...	.05	1.5	2.1	3.6	3.7	16	.94	.30	90	10	14
NOV 19...	.26	.16	1.3	1.5	1.8	7.8	.89	.67	40	50	13
DEC 15...	.25	.06	.74	.80	1.1	4.6	.29	.20	70	70	13
JAN 28...	.01	.03	.68	.71	.72	3.2	.23	.13	60	30	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

MISSISSIPPI RIVER DELTA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

303900091454000 KEITH LAKE (STATION 4) NEAR MELVILLE, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	BICARBONATE (HCO3) (MG/L)
OCT 08...	1220	461	7.6	20.0	35	8.8	96	180	--	46	16	232
NOV 12...	1300	476	8.1	14.0	35	9.6	92	180	26	44	17	188

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 08...	0	190	9.3	5.9	30	12	269	.37	78	.00	.00	.00
NOV 12...	0	154	2.4	8.7	34	8.8	277	.38	74	.00	.01	.01

DATE	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)
OCT 08...	1.1	2.2	3.3	3.3	15	.34	.16	80	10	15	26.1	1.76
NOV 12...	.14	1.2	1.3	1.3	5.8	.16	.05	90	0	9.2	14.0	1.71

303842091451200 KEITH LAKE (STATION 1B) NEAR MELVILLE, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	BICARBONATE (HCO3) (MG/L)
OCT 08...	1250	439	7.8	22.0	35	6.7	76	170	0	41	16	228
NOV 12...	1345	473	7.8	15.5	15	6.6	66	180	0	44	17	241

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 08...	0	187	5.8	6.3	31	13	271	.37	49	.00	.01	.01
NOV 12...	0	198	6.1	9.4	34	9.6	268	.36	21	.01	.00	.01

MISSISSIPPI RIVER DELTA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

303842091451200 KEITH LAKE (STATION 1B) NEAR MELVILLE, LA--Continued

DATE	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)
OCT 08...	.35	1.3	1.6	1.6	7.1	.26	.09	140	0	10	62.9	2.29
NOV 12...	.09	.91	1.0	1.0	4.5	.11	.05	80	30	4.2	6.53	1.45

303818091471200 SECOND LAKE (BAYOU PETITE PRAIRIE STATION 2B) NEAR MELVILLE, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	BICARBONATE (HCO3) (MG/L)
OCT 08...	1150	479	8.0	21.0	20	8.2	91	180	0	44	17	247
NOV 12...	1150	494	7.9	13.5	20	7.4	70	190	0	45	18	249

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 08...	0	203	4.0	5.1	34	12	284	.39	29	.00	.00	.00
NOV 12...	0	204	5.0	7.8	37	10	287	.39	62	.16	.01	.17

DATE	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)
OCT 08...	.36	1.0	1.4	1.4	6.2	.16	.10	100	10	12	42.9	2.27
NOV 12...	.09	.81	.90	1.1	4.7	.10	.04	80	20	8.6	4.32	.853

303720091490200 BAYOU PETITE PRAIRIE (STATION 3A) ABOVE MOUTH OF STATE CANAL, NEAR MELVILLE, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	BICARBONATE (HCO3) (MG/L)
OCT 08...	1005	389	7.9	17.5	25	4.8	50	150	0	36	14	196
NOV 12...	1000	402	7.9	12.0	15	8.4	78	150	0	37	14	203

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

MISSISSIPPI RIVER DELTA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

303720091490200 BAYOU PETITE PRAIRIE (STATION 3A) ABOVE MOUTH OF STATE CANAL, NEAR MELVILLE, LA--Continued

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SUS- PENDED SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 08...	0	161	3.9	6.1	26	9.5	226	.31	54	.00	.01	.01
NOV 12...	0	167	4.1	7.4	28	6.4	227	.31	41	.00	.01	.01

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT 08...	.21	.99	1.2	1.2	5.4	.15	.10	80	0	9.0	--	--
NOV 12...	.04	.74	.78	.79	3.5	.12	.07	80	30	7.8	8.88	.000

303718091490000 BAYOU PETITE PRAIRIE (STATION 3B) AT MOUTH OF STATE CANAL, NEAR MELVILLE, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS- SOLVED CALCIUM (CA) (MG/L)	DIS- SOLVED MAGNE- SIUM (MG)	BICARBONATE (HCO3) (MG/L)
OCT 08...	1025	388	7.9	18.5	30	5.1	54	150	0	37	14	196
NOV 12...	1015	420	7.9	14.0	25	9.7	93	170	11	41	16	192

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SUS- PENDED SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 08...	0	161	3.9	6.0	26	9.6	222	.30	42	.01	.02	.03
NOV 12...	0	157	3.9	7.1	30	7.3	243	.33	54	.00	.00	.00

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL BORON (B) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT 08...	.13	.87	1.0	1.0	4.6	.17	.09	70	10	9.2	14.7	3.53
NOV 12...	.05	.69	.74	.74	3.3	.12	.06	80	0	7.8	4.77	1.25

CALCASIEU RIVER BASIN

08014880 BUNDICK LAKE NEAR DRY CREEK, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI (COL. PER 100 ML)	HARDNESS (CA+MG) (MG/L)
NOV 17...	0800	102	7.0	9.0	30	15	12.0	7.7	B10	B20	--	12
JAN 11...	1230	57	6.6	7.0	80	15	10.6	1.9	44	B30	--	11
APR 19...	1000	56	5.9	23.5	80	9	--	--	B6	--	80	11
JUL 20...	0945	85	7.1	30.0	20	15	5.9	2.3	B5	--	1600	14

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV 17...	0	2.4	1.5	12	64	1.5	2.1	20	0	16	3.2	10
JAN 11...	3	4.0	.2	6.0	49	.8	2.3	10	0	8	4.0	6.4
APR 19...	0	3.2	.8	5.3	46	.7	1.7	16	0	13	32	4.4
JUL 20...	0	3.5	1.2	9.5	55	1.1	2.4	24	0	20	3.1	3.1

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 17...	9.4	.0	23	66	70	.09	.01	.64	.65	2.9	.15
JAN 11...	6.8	.1	9.8	--	40	.05	.23	--	--	--	.13
APR 19...	6.2	.0	7.3	56	37	.08	.10	--	--	--	.13
JUL 20...	8.0	.0	13	69	53	.09	.01	--	--	--	.04

DATE	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
NOV 17...	1	4	0	<10	<10	0	0	10	70	2400	0	<10

DATE	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)
NOV 17...	10	280	.2	.0	10	20	6.0	.00	1	.0	0	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CALCASIEU RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

08014880 BUNDICK LAKE NEAR DRY CREEK, LA--Continued

DATE	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
NOV 17...	.0	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00

DATE	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
NOV 17...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
NOV 17...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

DATE	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 17...	0	.00	.0	.00	.00	.00

SABINE RIVER BASIN

08024040 BAYOU SAN MIGUEL SOUTHWEST OF ZWOLLE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL+ PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL+ PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
NOV 16...	1245	161	7.1	7.5	10	5	9.2	2.4	B40	140	--	33
JAN 12...	1400	180	7.0	6.5	5	2	11.6	3.4	36	<5	--	35
APR 19...	1800	66	5.5	22.0	120	25	5.2	3.1	420	--	B50	13
JUL 19...	1430	210	7.5	32.5	15	3	7.5	.3	<5	--	B20	39

SABINE RIVER BASIN

08024040 BAYOU SAN MIGUEL SOUTHWEST OF ZWOLLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV 16...	4	7.3	3.6	17	50	1.3	2.8	35	0	29	4.4	16
JAN 12...	9	9.0	3.1	18	50	1.3	2.9	32	0	26	5.1	15
APR 19...	1	3.3	1.1	6.2	47	.8	1.7	14	0	11	71	7.4
JUL 19...	18	9.2	3.9	21	51	1.5	3.2	26	0	21	1.3	21

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 16...	18	.0	1.1	86	83	.12	.04	--	--	--	.04	7.8
JAN 12...	26	.2	3.4	104	93	.14	--	--	--	--	--	7.8
APR 19...	7.7	.0	5.9	58	40	.08	.09	.80	.89	3.9	.08	--
JUL 19...	31	.1	5.8	130	108	.18	.01	.23	.24	1.1	.02	6.2

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)
NOV 16...	1	1	17	0	0	<10	20	<10	0	3	3	<10

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 16...	120	4200	8	0	<10	450	.2	.2	.0	2	2	30

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLY-CHLORINATED NAPHTHALENES (UG/L)	PCN TOTAL IN BOTTOM MATERIAL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)
NOV 16...	10	30	.00	1	0	.0	0	.00	.0	.00	.0	.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SABINE RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

08024040 BAYOU SAN MIGUEL SOUTHWEST OF ZWOLLE, LA--Continued

DATE	CHLOR-DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)
NOV 16...	0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)
NOV 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)
NOV 16...	.0	.00	.0	.00	.0	.00	.0

DATE	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 16...	0	0	.00	.0	.00	.00	.00

08024200 BAYOU LA NANA NEAR ZWOLLE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL- PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL- PER 100 ML)	HARD- NESS (CA, MG) (MG/L)
NOV 16...	1215	228	7.4	12.0	10	3	7.5	1.3	<5	B56	--	47
JAN 12...	1330	250	7.1	7.0	10	8	11.2	3.2	B16	B24	--	41
APR 19...	1630	216	6.2	23.5	20	4	8.8	3.1	<5	--	18	38
JUL 19...	1230	208	7.2	32.0	20	3	7.1	1.6	<5	--	230	40

SABINE RIVER BASIN

08024200 BAYOU LA NANA NEAR ZWOLLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV 16...	8	11	4.7	22	49	1.4	3.0	47	0	39	3.0	16
JAN 12...	17	9.1	4.5	27	57	1.8	3.0	29	0	24	3.7	25
APR 19...	21	8.5	4.0	23	55	1.6	2.4	20	0	16	20	23
JUL 19...	16	9.0	4.3	25	55	1.7	3.2	30	0	25	3.0	21

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 16...	34	.1	5.2	121	119	.16	.08	--	--	--	.01	6.8
JAN 12...	40	.1	4.4	144	127	.20	.17	.64	.81	3.6	.03	7.2
APR 19...	34	.1	6.3	124	111	.17	.06	.49	.55	2.4	.02	4.9
JUL 19...	35	.1	6.3	142	119	.19	.02	.29	.31	1.4	.03	5.4

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)
NOV 16...	1	1	5	0	0	<10	20	<10	0	13	4	<10

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV 16...	40	3400	6	0	<10	12	.1	.1	.0	1	0	20

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)	PCN TOTAL IN BOTTOM MATERIAL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)
NOV 16...	10	<10	.00	0	0	.0	0	.00	.0	.00	.0	.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SABINE RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

08024200 BAYOU LA NANA NEAR ZWOLLE, LA--Continued

DATE	CHLOR-DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)
NOV 16...	0	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0

DATE	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)
NOV 16...	.00	.00	.0	.00	.0	.00	.0	.00	.00	.00	.00	.0

DATE	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 16...	.00	0	0	.00	.00	.02	.00

08027450 LAKE VERNON (UPPER ANACOCO LAKE) AT DAM, NEAR LEBESVILLE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
NOV 16...	1630	37	6.6	10.5	10	4	9.2	1.2	B20	B10	--	7
JAN 12...	1030	32	6.6	7.0	10	4	12.0	3.5	<5	--	--	9
APR 19...	1400	37	5.8	23.0	20	6	8.4	1.1	<5	<5	72	10
JUL 20...	0930	48	6.7	33.0	20	3	7.5	2.7	<5	--	7100	8

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV 16...	1	1.7	.7	2.6	39	.4	1.3	8	0	7	3.2	2.8
JAN 12...	1	2.6	.6	2.7	35	.4	1.4	10	0	8	4.0	2.0
APR 19...	3	2.2	1.1	3.3	38	.5	1.2	8	0	7	20	3.6
JUL 20...	2	2.2	.7	3.4	42	.5	1.4	8	0	7	2.6	3.6

SABINE RIVER BASIN

08027450 LAKE VERNON (UPPER ANACOCO LAKE) AT DAM, NEAR LEESVILLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO ₃) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV 16...	3.4	.0	3.8	19	20	.03	.04	.47	.51	2.3	.78
JAN 12...	3.7	.0	2.9	--	21	.03	.10	--	--	--	.01
APR 19...	4.6	.0	5.3	38	25	.05	.07	--	--	--	.01
JUL 20...	4.4	.0	4.0	17	24	.02	.02	--	--	--	.02

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)
NOV 16...	0	2	0	<10	<10	0	3	<10	110	370	0	<10

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLY-CHLORINATED NAPHTHALENES (UG/L)
NOV 16...	0	<10	.0	.0	10	<10	8.6	.00	0	.0	0	.00

DATE	PCN TOTAL IN BOTTOM MATERIAL DRY WT. (UG/KG)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)
NOV 16...	.0	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00

DATE	DI-AZINON IN BOTTOM MATERIAL (UG/KG)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)
NOV 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	MALATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL PARATHION (UG/L)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	METHYL TRI-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOTTOM MATERIALS (UG/KG DRY SOLIDS)	TOTAL PARA-THION (UG/L)	PARA-THION IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)
NOV 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SABINE RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

08027450 LAKE VERNON (UPPER ANACOCO LAKE) AT DAM, NEAR LEESVILLE, LA

DATE	TOX-APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D OXYGEN (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 16...	0	.00	.0	.00	.00	.00

08028200 BAYOU ANACOCO NEAR KNIGHT, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
NOV 16...	1730	629	7.6	10.5	300	50	8.5	2.9	160	350	--	40
JAN 12...	1000	85	6.7	6.0	80	30	11.4	3.7	960	490	--	11
APR 19...	1300	262	6.1	22.0	280	12	7.4	1.4	840	816	16	27
JUL 20...	1100	260	7.4	28.0	140	15	7.5	2.1	820	--	813000	22

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AU- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	CARBON DIOXIDE (C02) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)
NOV 16...	0	14	1.3	120	85	8.2	4.4	99	0	81	4.0	120
JAN 12...	0	3.6	.5	12	67	1.6	1.6	16	0	13	5.1	12
APR 19...	0	6.7	2.4	41	75	3.5	2.4	36	0	30	46	48
JUL 20...	0	7.1	1.1	42	78	3.9	2.5	70	0	57	4.5	35

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUG- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N03) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 16...	59	.2	18	391	386	.53	.13	--	--	--	.18	18
JAN 12...	8.0	.1	8.0	--	54	.10	--	--	--	--	--	10
APR 19...	25	.1	11	165	155	.22	.09	--	--	--	.08	5.8
JUL 20...	19	.1	17	178	158	.24	.11	.22	.33	1.5	.08	8.4

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)
NOV 16...	2	2	1	--	--	0	0	<10	20	<10	0	2
APR 19...	1	0	0	0	0	0	0	<10	10	<10	0	5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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SABINE RIVER BASIN

08028200 BAYOU ANACOCO NEAR KNIGHT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)
NOV 16...	2	10	310	290	4	0	<10	<10	.0	.0	.0	2
APR 19...	5	<10	200	3300	3	0	<10	<10	.0	.0	.0	2

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS-SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	PCN TOTAL IN BOTTOM MATRL DRY WT. (UG/KG)
NOV 16...	0	--	--	30	10	<10	.00	2	.0	0	.00	.0
APR 19...	0	0	0	10	10	<10	.00	3	.0	0	.00	.0

DATE	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)
NOV 16...	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00	.0
APR 19...	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.01	.0

DATE	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
NOV 16...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
APR 19...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MIREX (UG/L)	MIREX IN BOT- TOM MA- TERIALS (UG/KG DRY SOLIDS)
NOV 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0
APR 19...	.0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	TOTAL PARA- THION (UG/L)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 16...	.00	.0	0	0	.00	.0	--	--	--
APR 19...	.00	.0	0	0	.00	.0	.00	.00	.00

RED RIVER ALLUVIAL AQUIFER PROJECT

The following data are from samples collected during the Red River Alluvial Aquifer Project.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07347000 KELLY BAYOU NEAR HOSSTON, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT 28...	1400	834	7.9	14.5	0	380	0	94	34	50	3.0	392

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 28...	0	322	7.9	52	64	.1	16	--	506	.28	10	320

07347500 BLACK BAYOU NEAR GILLIAM, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT 28...	1500	1450	7.9	14.5	5	450	95	100	48	140	3.4	428

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 28...	0	351	8.6	61	230	.2	15	801	802	.00	20	110

07347700 BLACK BAYOU NEAR OIL CITY, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT 28...	1600	14200	7.2	5	1400	1300	300	160	2500	27	164

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)
OCT 28...	0	135	17	20	4600	.1	20	8710	8200	.18

RED RIVER ALLUVIAL AQUIFER PROJECT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07347725 OLD CHANNEL, BLACK BAYOU AT OIL CITY, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	
OCT 28...	1700	2980	8.7	15.0	0	420	310	83	50	430	14	132	
DATE		CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
OCT 28...	0	108	.4	72	810	.1	.9	1560	1530	.16	30	30	

07347805 RED BAYOU SOUTH OF GILLIAM, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	
OCT 29...	0930	774	7.5	--	--	75	--	--	--	--	--	--	
DATE		CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
OCT 29...	--	--	--	--	2.2	140	--	--	--	--	--	20	--

07348000 TWELVE MILE BAYOU NEAR DIXIE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	
OCT 29...	1215	1080	7.3	--	5	240	140	67	18	120	3.1	120	
DATE		CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 29...	0	98	9.6	120	200	.1	13	634	600	.11	20	610	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER ALLUVIAL AQUIFER PROJECT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07352985 BOURBEAUX BAYOU NORTH OF CLARENCE, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT 27...	1245	206	7.2	16.0	10	74	5	17	7.7	8.1	7.0	84

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
OCT 27...	0	69	8.5	8.8	14	.0	.0	137	104	.22	1300	260

07352990 BOURBEAUX BAYOU NEAR CLARENCE, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT 27...	1355	378	--	13.5	20	160	0	40	15	15	6.1	207

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
OCT 27...	0	170	--	11	12	1.0	5.4	229	209	1.2	810	440

07353000 SALINE BAYOU NEAR CLARENCE, LA

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT 27...	1425	545	7.0	16.5	15	42	16	9.5	4.4	82	2.0	32

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)
OCT 27...	0	26	5.1	14	130	.1	11	291	272	.01	1700	200

RED RIVER ALLUVIAL AQUIFER PROJECT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

07353050 SALINE BAYOU NEAR ST. MAURICE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT 27...	1515	952	7.4	--	5	95	15	28	6.1	150	3.1	97

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 27...	0	80	6.2	15	230	.0	9.5	501	488	.42	380	370

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
RED RIVER BASIN					
07344450 PAW PAW BAYOU NEAR GREENWOOD					
NOV. 3, 1976....	7.0	9.0	MAY 23.....	28.0	5.8
JAN. 18, 1977....	2.0	--	JUNE 28.....	23.5	--
MAR. 4.....	9.0	10.2	AUG. 29.....	25.0	4.5
APR. 13.....	16.0	9.0			
07348000 TWELVEMILE BAYOU NEAR DIXIE					
NOV. 2, 1976....	12.0	10.4	MAY 24.....	27.0	7.6
JAN. 17, 1977....	5.0	--	JUNE 30.....	--	7.5
MAR. 3.....	11.5	11.6	JULY 7.....	27.5	8.5
APR. 5.....	15.0	10.0	AUG. 5.....	26.0	5.7
APR. 13.....	22.0	9.0	SEPT. 28.....	25.5	--
07348700 BAYOU DORCHEAT NEAR SPRINGHILL					
NOV. 16, 1976....	7.5	6.8	MAY 26.....	23.0	4.6
JAN. 12, 1977....	1.5	--	JULY 6.....	27.5	6.2
MAR. 15.....	18.0	7.0	AUG. 10.....	26.5	5.4
APR. 4.....	16.5	5.8	SEPT. 30.....	25.0	--
07348800 FLAT LICK BAYOU NEAR LETON					
NOV. 17, 1976....	5.0	5.3	MAY 19.....	23.0	8.2
JAN. 11, 1977....	2.0	--	AUG. 9.....	32.0	2.5
FEB. 7.....	8.5	10.4	SEPT. 12.....	30.5	--
APR. 11.....	18.5	9.0	SEPT. 26.....	24.5	--
07349000 BAYOU DORCHEAT NEAR MINDEN					
OCT. 2, 1976....	18.5	8.5	MAY 23.....	25.0	8.0
NOV. 17.....	4.5	6.7	JUNE 30.....	30.5	6.3
JAN. 20, 1977....	2.0	--	AUG. 10.....	27.0	--
MAR. 15.....	17.0	7.4	SEPT. 27.....	26.0	--
APR. 11.....	16.5	7.1	SEPT. 29.....	25.0	--
07349500 BODCAU BAYOU NEAR SAREPTA					
NOV. 16, 1976....	7.0	8.9	JULY 1.....	26.5	4.4
JAN. 12, 1977....	2.0	--	AUG. 5.....	24.0	4.5
MAR. 4.....	10.0	8.0	SEPT. 12.....	27.0	4.8
APR. 12.....	19.0	6.2	SEPT. 26.....	26.0	--
JUNE 3.....	26.0	6.1			
07349795 CYPRESS BAYOU ABOVE BENTON					
NOV. 5, 1976....	8.0	--	MAY 18.....	22.0	6.1
JAN. 12, 1977....	3.0	--	AUG. 4.....	20.0	3.6
FEB. 7.....	5.5	10.4	SEPT. 14.....	27.0	1.9
MAR. 3.....	12.0	8.8	SEPT. 26	24.5	--
APR. 8.....	16.0	8.0			
07352000 SALINE BAYOU NEAR LUCKY					
DEC. 7, 1976....	3.0	9.4	JUNE 28.....	24.5	6.2
FEB. 25, 1977....	9.5	8.8	AUG. 1.....	28.0	5.6
APR. 14.....	27.8	--	SEPT. 28.....	25.0	4.4
JUNE 1.....	23.5	--			
07352800 GRAND BAYOU NEAR COUSHATTA					
NOV. 4, 1976....	13.5	--	MAY 25.....	22.9	3.6
JAN. 19, 1977....	1.0	--	JUNE 29.....	26.0	2.3
FEB. 22.....	12.0	--	AUG. 2.....	26.5	3.4
FEB. 24.....	11.0	8.4	SEPT. 16.....	22.0	--
APR. 11.....	19.5	6.2			
07353520 NANTACHIE LAKE NEAR ALOHA					
JUNE 20, 1977....	29.0	8.3			
07354000 LITTLE SANDY CREEK AT KISATCHIE					
NOV. 19, 1976....	8.0	--	JUNE 8.....	20.5	10.2
DEC. 15.....	9.0	12.0	JULY 21.....	26.5	--
FEB. 2, 1977....	5.0	13.0	AUG. 30.....	26.0	8.5
MAR. 16.....	16.0	10.2	SEPT. 30.....	27.5	--
APR. 26.....	23.0	9.5			

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
RED RIVER BASIN--Continued					
07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE					
NOV. 30, 1976.....	6.0	11.8	JULY 13.....	27.0	7.6
JAN. 27, 1977.....	6.0	--	SEPT. 15.....	29.0	7.4
07364200 BAYOU BARTHOLOMEW NEAR JONES					
NOV. 17, 1976.....	7.5	10.8	MAR. 9.....	17.5	--
JAN. 14, 1977.....	5.5	12.2	JULY 8.....	30.0	5.5
FEB. 17.....	10.5	10.0	AUG. 17.....	29.0	5.3
MAR. 7.....	14.0	8.8	OCT. 6.....	21.0	7.0
07364300 CHEMIN-A-HAUT BAYOU NEAR BEEKMAN					
DEC. 16, 1976.....	3.0	9.8	MAR. 10.....	11.0	10.2
JAN. 13, 1977.....	2.0	12.4	APR. 19.....	23.0	--
FEB. 9.....	5.5	--	JULY 7.....	29.0	3.1
FEB. 16.....	9.0	9.7	AUG. 18.....	27.0	4.7
MAR. 8.....	14.0	8.8	SEPT. 30.....	23.0	3.1
07364700 BAYOU DE LOUTRE NEAR LARAN					
NOV. 22, 1976.....	7.5	9.5	JUNE 7.....	24.0	7.8
JAN. 12, 1977.....	2.0	13.6	JULY 6.....	29.5	9.6
FEB. 8.....	6.5	12.8	JULY 29.....	27.0	6.2
MAR. 8.....	9.5	9.2	SEPT. 27.....	27.0	6.2
MAY 17.....	23.0	8.0			
07366200 LITTLE CORNEY BAYOU NEAR LILLIE					
NOV. 22, 1976.....	7.0	10.6	MAY 17.....	20.2	4.6
JAN. 12, 1977.....	3.0	13.4	JUNE 7.....	26.0	4.0
FEB. 8.....	9.0	11.0	JULY 6.....	28.0	4.1
FEB. 23.....	12.5	--	AUG. 5.....	22.0	6.1
APR. 6.....	12.5	8.0	SEPT. 27.....	33.0	6.0
07368000 BOEUF RIVER NEAR GIRARD					
NOV. 22, 1976.....	7.5	9.1	MAR. 10.....	14.5	6.7
FEB. 2, 1977.....	6.5	--	APR. 19.....	21.0	--
FEB. 4.....	10.5	--	JUNE 27.....	29.5	5.5
FEB. 22.....	15.5	--	JUNE 28.....	27.5	4.8
MAR. 7.....	13.0	7.3	AUG. 2.....	25.0	5.2
MAR. 9.....	13.5	6.7	SEPT. 29.....	25.0	5.4
07368500 BIG COLEWA BAYOU NEAR OAK GROVE					
NOV. 17, 1976.....	10.0	10.4	MAR. 7.....	15.0	7.0
JAN. 21, 1977.....	6.0	14.0	MAR. 8.....	11.0	7.9
FEB. 9.....	10.5	--	MAR. 9.....	12.0	7.5
MAR. 4.....	15.5	7.0	MAR. 10.....	15.0	7.9
MAR. 5.....	13.5	8.4	AUG. 16.....	29.5	4.2
07369000 BAYOU LAFOURCHE NEAR CREW LAKE					
NOV. 18, 1976.....	4.0	9.8	MAY 6.....	23.0	6.8
JAN. 17, 1977.....	2.0	10.4	JUNE 24.....	26.5	--
FEB. 23.....	15.0	--	AUG. 2.....	23.5	8.0
MAR. 7.....	11.0	8.3	AUG. 3.....	24.0	7.4
APR. 18.....	15.0	--	SEPT. 29.....	24.0	6.1
MAY 4.....	23.0	7.0			
07370000 BAYOU MACON NEAR DELHI					
DEC. 3, 1976.....	6.0	11.8	MAY 3.....	26.0	--
JAN. 20, 1977.....	4.0	--	JUNE 27.....	29.8	8.2
FEB. 23.....	15.5	--	AUG. 3.....	27.0	5.6
MAR. 8.....	14.0	6.8	SEPT. 12.....	26.0	7.0
APR. 19.....	23.5	--	SEPT. 26.....	26.0	6.7
07372000 DUGDEMONA RIVER NEAR WINNFIELD					
OCT. 7, 1976.....	17.0	8.0	JUNE 3.....	26.0	5.1
NOV. 19.....	7.5	7.8	JULY 12.....	26.5	4.6
NOV. 24.....	10.0	10.8	AUG. 2.....	28.0	4.8
FEB. 1, 1977.....	4.0	--	SEPT. 28.....	27.0	3.6
MAR. 18.....	19.5	6.4			

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
MISSISSIPPI RIVER DELTA					
07381800 SPRING CREEK NEAR GLENMORA					
NOV. 5, 1976.....	12.0	--	JUNE 1.....	21.5	8.8
DEC. 9.....	10.0	--	JULY 12.....	22.0	8.8
MAR. 31, 1977.....	18.0	--	AUG. 24.....	24.5	6.5
APR. 19.....	18.5	--			
07382000 BAYOU COCODRIE NEAR CLEARWATER					
NOV. 3, 1976.....	13.5	--	JUNE 3.....	27.0	7.0
DEC. 20.....	12.5	--	JULY 12.....	27.0	2.2
MAR. 7, 1977.....	13.5	--	SEPT. 7.....	29.0	--
APR. 27.....	20.5	--	SEPT. 29.....	27.0	4.9
07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE					
NOV. 3, 1976.....	13.5	--	APR. 28.....	19.5	--
DEC. 10.....	14.0	1.0	APR. 29.....	20.0	4.4
DEC. 27.....	10.0	6.0	APR. 30.....	20.0	4.3
JAN. 28, 1977.....	9.5	8.2	MAY 2.....	20.0	--
MAR. 10.....	13.5	6.3	MAY 4.....	21.5	4.0
APR. 22.....	20.5	--	MAY 6.....	23.0	4.1
APR. 23.....	19.0	10.1	MAY 12.....	23.0	--
APR. 24.....	19.0	4.3	JUNE 14.....	25.5	5.2
APR. 25.....	20.5	--	JULY 11.....	29.0	--
APR. 26.....	20.5	--	SEPT. 7.....	28.5	--
APR. 27.....	20.0	--	SEPT. 27.....	24.0	4.7
MERMENTAU RIVER BASIN					
08010000 BAYOU DES CANNES NEAR EUNICE					
NOV. 10, 1976.....	17.0	--	JULY 22.....	30.0	--
DEC. 16.....	10.5	--	AUG. 4.....	30.0	--
JAN. 25, 1977.....	7.0	--	AUG. 30.....	28.0	--
FEB. 17.....	11.0	--	SEPT. 27.....	27.0	--
APR. 13.....	22.5	--	SEPT. 29.....	26.5	--
JUNE 15.....	25.5	--			
08011500 BOGGY BAYOU NEAR PINE PRAIRIE					
NOV. 8, 1976.....	12.0	3.0	JUNE 3.....	27.0	--
DEC. 17.....	9.5	--	JULY 19.....	24.5	3.2
FEB. 4, 1977.....	9.0	9.3	JULY 28.....	25.0	--
MAR. 17.....	17.0	7.4	AUG. 30.....	26.0	5.1
APR. 22.....	19.5	--	SEPT. 26.....	26.0	3.1
08012000 BAYOU NEZPIQUE NEAR BASILE					
NOV. 11, 1976.....	15.5	--	JUNE 17.....	25.0	--
DEC. 16.....	12.0	--	JULY 22.....	28.0	--
JAN. 26, 1977.....	7.5	--	AUG. 30.....	27.0	--
FEB. 17.....	12.5	--	SEPT. 27.....	29.0	--
APR. 28.....	20.5	--			
CALCASIEU RIVER BASIN					
08013000 CALCASIEU RIVER NEAR GLENMORA					
NOV. 5, 1976.....	12.0	--	JUNE 2.....	25.0	7.5
DEC. 9.....	8.5	9.9	JULY 12.....	24.0	7.6
MAR. 31, 1977.....	18.5	--	AUG. 22.....	25.0	6.7
APR. 18.....	20.5	--	SEPT. 26.....	22.0	7.2
08014500 WHISKY CHITTO CREEK NEAR OBERLIN					
NOV. 9, 1976.....	13.0	--	JUNE 6.....	26.0	11.2
FEB. 1, 1977.....	7.0	11.6	JULY 20.....	24.0	8.1
MAR. 16.....	16.5	9.0	AUG. 29.....	25.0	7.2
APR. 26.....	18.5	9.7	SEPT. 23.....	23.0	10.8
08014800 BUNDICK CREEK NEAR DE RIDDER					
NOV. 11, 1976.....	14.0	8.8	APR. 22.....	18.0	6.6
JAN. 31, 1977.....	7.0	10.0	JUNE 8.....	20.0	9.1
FEB. 3.....	9.0	9.8	JULY 20.....	24.5	--
FEB. 22.....	14.0	--	AUG. 29.....	24.5	6.1
MAR. 15.....	16.5	8.8	SEPT. 22.....	22.0	9.5

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
CALCASIEU RIVER BASIN--Continued					
08015500 CALCASIEU RIVER NEAR KINDER					
NOV. 11, 1976....	16.5	--	JUNE 9.....	25.0	--
JAN. 5, 1977....	8.0	--	JUNE 10.....	26.0	--
JAN. 27.....	8.5	--	SEPT. 7.....	26.5	--
FEB. 24.....	15.5	--	SEPT. 29.....	27.0	--
08016400 BECKWITH CREEK NEAR DE QUINCY					
NOV. 12, 1976....	13.5	--	MAR. 2.....	17.0	--
DEC. 22.....	9.0	--	APR. 11.....	17.5	--
JAN. 27, 1977....	7.5	--	SEPT. 7.....	27.0	--
FEB. 24.....	16.0	--	SEPT. 26.....	26.5	--
SABINE RIVER BASIN					
08022765 BAYOU CASTOR NEAR FUNSTON					
NOV. 8, 1976....	12.5	--	APR. 27.....	16.0	8.6
DEC. 14.....	7.0	9.8	JUNE 7.....	23.0	2.7
DEC. 16.....	8.0	8.9	JULY 19.....	24.0	--
FEB. 1, 1977....	2.0	13.2	AUG. 31.....	24.5	1.4
FEB. 7.....	4.5	--	SEPT. 19.....	22.0	3.6
MAR. 15.....	16.0	--			
08025500 BAYOU TORO NEAR TORO					
NOV. 9, 1976....	10.5	--	APR. 27.....	16.0	9.1
DEC. 16.....	11.0	9.4	JUNE 8.....	31.5	6.7
DEC. 17.....	8.0	11.4	JUNE 29.....	27.5	--
DEC. 28.....	7.5	10.1	JULY 20.....	26.5	--
FEB. 1, 1977....	4.0	13.1	AUG. 31.....	27.0	6.0
MAR. 16.....	17.0	8.8			
08028000 BAYOU ANACOCO NEAR ROSEPINE					
NOV. 10, 1976....	13.0	--	JULY 12.....	26.0	--
FEB. 2, 1977....	5.5	12.0	JULY 21.....	25.0	6.7
MAR. 15.....	15.5	10.1	AUG. 29.....	25.5	6.3
APR. 21.....	18.5	8.3	SEPT. 22.....	22.0	8.0
JUNE 7.....	29.0	8.6			
08028700 HOOSIER CREEK NEAR MERRYVILLE					
NOV. 11, 1976....	17.5	7.5	APR. 25.....	18.0	9.4
DEC. 15.....	10.5	--	JUNE 7.....	25.0	8.1
FEB. 2, 1977....	6.0	11.2	JULY 21.....	23.0	8.0
FEB. 3.....	10.0	10.6	AUG. 30.....	23.5	7.1
MAR. 14.....	15.0	8.2	SEPT. 22.....	21.5	9.2
APR. 21.....	18.0	7.9			



Figure 5. — Location of observation wells.

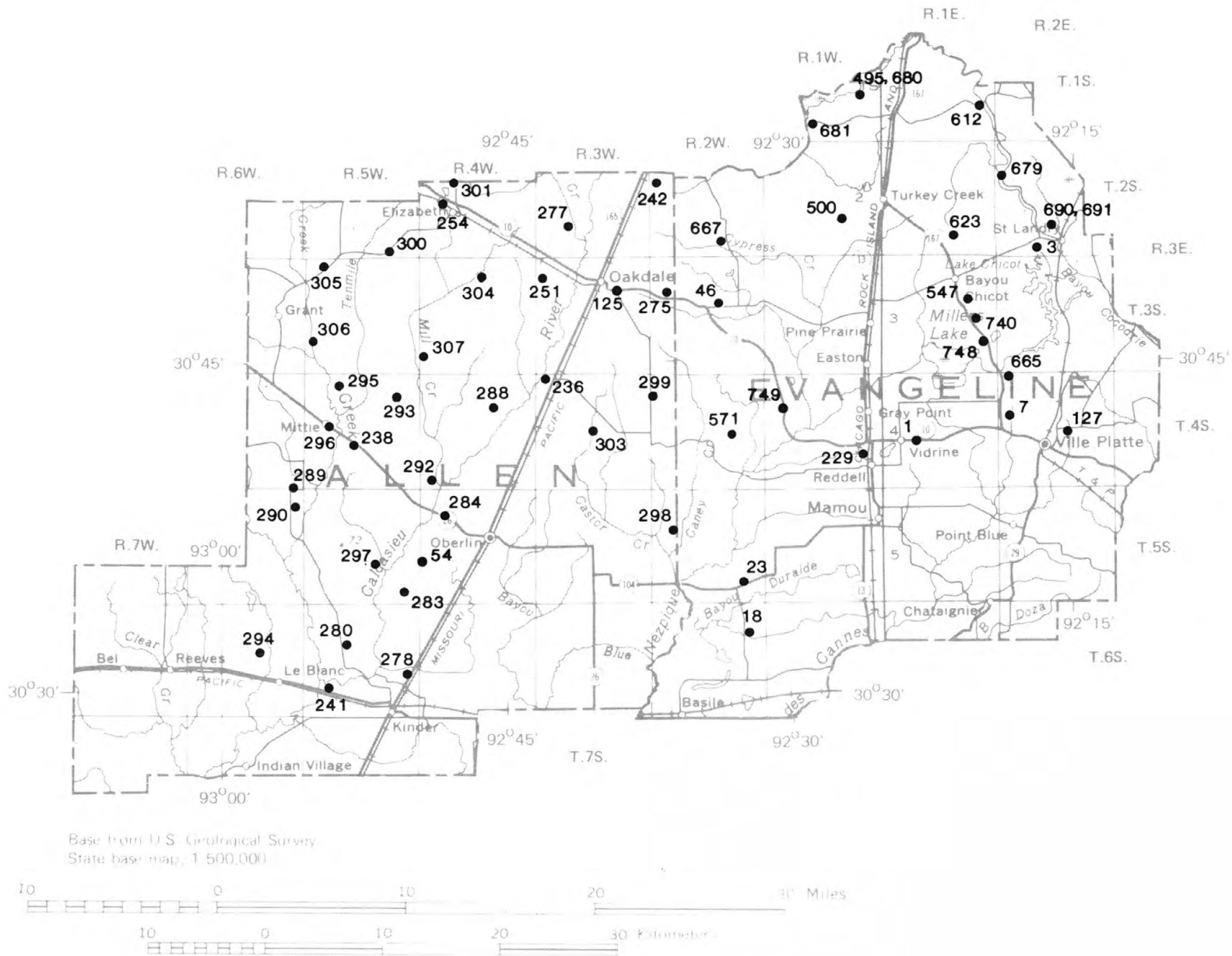


Figure 6. — Location of observation wells, Allen and Evangeline Parishes.

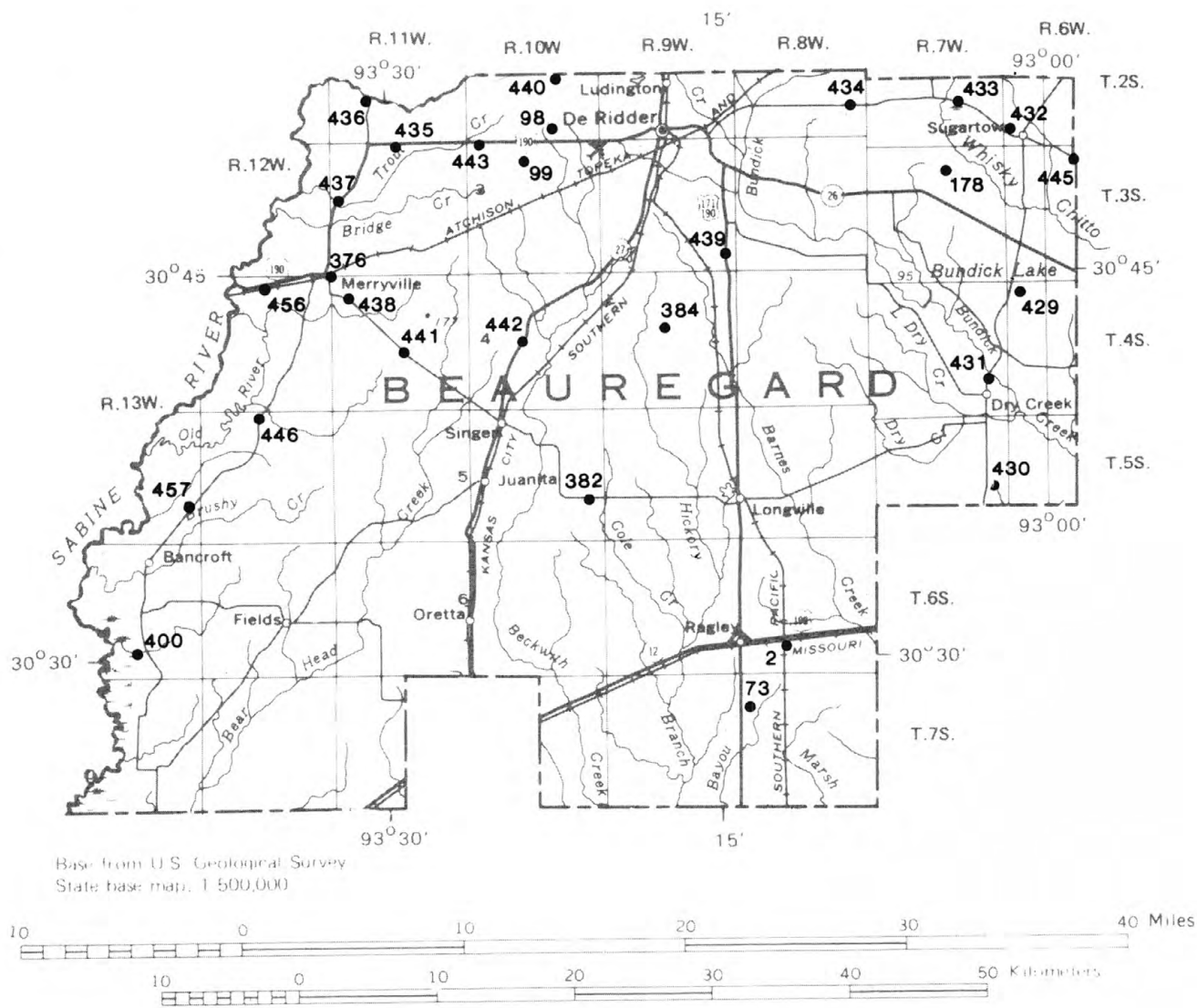


Figure 7. — Location of observation wells, Beauregard Parish.

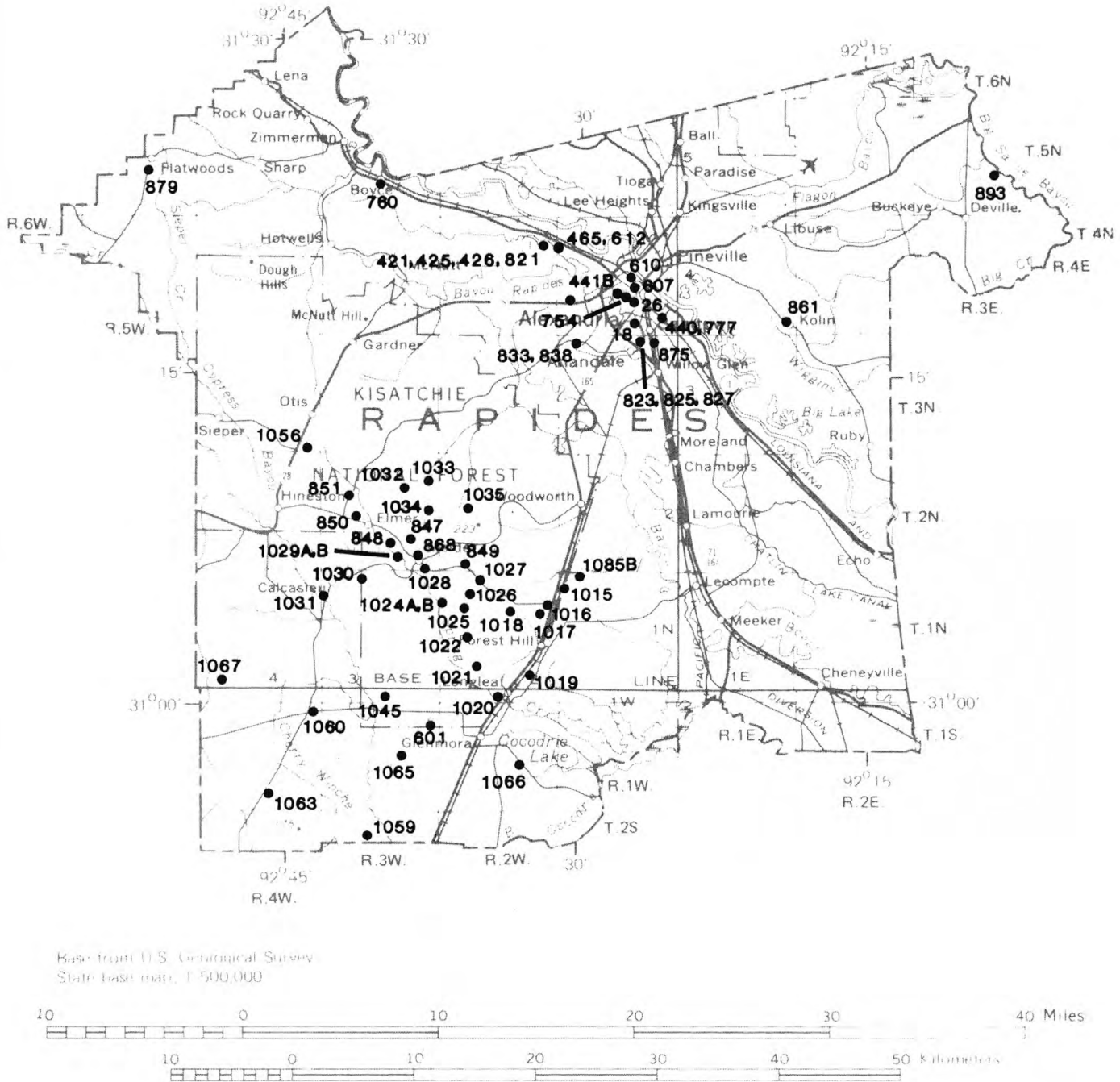


Figure 8. — Location of observation wells, Rapides Parish.

GROUND-WATER LEVELS

ALLEN PARISH

303554092485401 LOCAL WELL NUMBER: AL-54

OWNER: J. A. BEL ESTATE. (SEC. 19, T. 5S., R. 4W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 12 IN, REPORTED DEPTH 290 FT, SCREENED 210-290, MP LOWER LIP OF DISCHARGE PIPE, 8.55 FT ABOVE LSD.
 LSD 62.58 FT ABOVE MSL.
 HIGHEST WATER LEVEL 26.62 BELOW LSD, APR. 5, 1948,
 LOWEST WATER LEVEL 39.18 BELOW LSD, MAR. 15, 1977.
 RECORDS AVAILABLE 1945, 1947-72, 1974, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1977	39.18						

304825092385001 LOCAL WELL NUMBER: AL-125

OWNER: M. D. HARGROVE. (SEC. 11, T. 3S., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 114 FT, SCREENED 108-114, MP IS AT LAND SURFACE.
 LSD 120.42 FT ABOVE MSL.
 HIGHEST WATER LEVEL 30.58 BELOW LSD, JAN. 27, 1947,
 LOWEST WATER LEVEL 41.20 BELOW LSD, MAY 13, 1970.
 RECORDS AVAILABLE 1947-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	38.99	JAN. 4, 1977	38.80	MAY 25, 1977	38.55	AUG. 25, 1977	39.42
NOV. 24	39.94	MAR. 22	38.49	JULY 19	39.22	SEP. 21	39.47

304428092422201 LOCAL WELL NUMBER: AL-236

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 4S., R. 3W.) JETTED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 77 FT, WELL POINT 72-77, MP TOP OF 1 1/4-IN PIPE, 1.50 FT ABOVE LSD.
 LSD 102.71 FT ABOVE MSL.
 HIGHEST WATER LEVEL 34.68 BELOW LSD, AUG. 29, 1963,
 LOWEST WATER LEVEL 41.15 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1954-69, 1971-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	41.15	MAR. 16, 1977	39.26				

304115092523901 LOCAL WELL NUMBER: AL-238

OWNER: INDUSTRIAL LUMBER CO. (SEC. 21, T. 4S., R. 5W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 22 TO 10 IN, REPORTED DEPTH 171 FT, SCREENED 99-171, MP LOWER LIP OF DISCHARGE PIPE, 5.20 FT ABOVE LSD.
 LSD 92.62 FT ABOVE MSL.
 HIGHEST WATER LEVEL 35.60 BELOW LSD, FEB. 27, 1974,
 LOWEST WATER LEVEL 41.03 BELOW LSD, AUG. 23, 1965.
 RECORDS AVAILABLE 1961-72, 1974-75, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	37.42						

303004092541101 LOCAL WELL NUMBER: AL-241

OWNER: U. S. GEOL. SURVEY. (SEC. 29, T. 6S., R. 5W.) BORED OBSERVATION SEMIARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 62 FT, WELL POINT 59-62, MP TOP OF 1 1/4-IN PIPE, 4.0 FT ABOVE LSD.
 LSD 42.97 FT ABOVE MSL.
 HIGHEST WATER LEVEL 23.84 BELOW LSD, MAR. 21, 1961,
 LOWEST WATER LEVEL 33.18 BELOW LSD, SEP. 29, 1977.
 RECORDS AVAILABLE 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	32.61	JUNE 16, 1977	32.73	AUG. 30, 1977	33.02	SEP. 29, 1977	33.18
MAR. 16, 1977	29.45						

305325092365801 LOCAL WELL NUMBER: AL-242

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 2S., R. 2W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 93 FT, WELL POINT 90-93. MP TOP OF 1 1/4-IN PIPE, 4.0 FT ABOVE LSD.
 LSD 129.51 FT ABOVE MSL.
 HIGHEST WATER LEVEL 26.34 BELOW LSD, MAR. 26, 1962,
 LOWEST WATER LEVEL 29.82 BELOW LSD, SEP. 14, 1972.
 RECORDS AVAILABLE 1958-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	28.13	MAR. 22, 1977	28.85				

304848092414801 LOCAL WELL NUMBER: AL-251

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 3S., R. 3W.) BORED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 67 FT, SCREENED 64-67. MP TOP OF 1 1/4-IN PIPE, 2.0 FT ABOVE LSD.
 LSD 105.79 FT ABOVE MSL.
 HIGHEST WATER LEVEL 15.65 BELOW LSD, FEB. 26, 1974,
 LOWEST WATER LEVEL 21.24 BELOW LSD, OCT. 26, 1965.
 RECORDS AVAILABLE 1964-71, 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 22, 1977	17.11						

305218092482001 LOCAL WELL NUMBER: AL-254

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 2S., R. 4W.) BORED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 100 FT, SCREENED 97-100. MP TOP INSIDE EDGE OF 1 1/4-IN CASING, 2.0 FT ABOVE LSD.
 LSD 150.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 73.39 BELOW LSD, NOV. 17, 1976,
 LOWEST WATER LEVEL 78.54 BELOW LSD, FEB. 22, 1972.
 RECORDS AVAILABLE 1966-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	73.39	MAR. 22, 1977	76.25				

304804092362801 LOCAL WELL NUMBER: AL-275

OWNER: MRS. RAYMOND BRABHAN. (SEC. 18, T. 3S., R. 2W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 5 IN, DEPTH 120 FT, SCREENED 110-120. MP TOP OF 3/4-IN AIRLINE, 2.9 FT ABOVE LSD.
 LSD 111.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 37.41 BELOW LSD, MAR. 5, 1976,
 LOWEST WATER LEVEL 39.22 BELOW LSD, MAR. 22, 1977.
 RECORDS AVAILABLE 1974, 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 22, 1977	39.22						

305127092413201 LOCAL WELL NUMBER: AL-277

OWNER: GOSPEL LIGHTHOUSE CHURCH. (SEC. 29, T. 2S., R. 3W.) DRILLED DOMESTIC ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 90 FT, SCREENED 80-90. MP TOP OF 1/2-IN NIPPLE, 1.9 FT ABOVE LSD.
 LSD 123.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 24.43 BELOW LSD, MAR. 16, 1977,
 LOWEST WATER LEVEL 25.73 BELOW LSD, MAR. 1, 1973.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	24.43						

GROUND-WATER LEVELS

ALLEN PARISH

303035092501101 LOCAL WELL NUMBER: AL-278

OWNER: SUN OIL CO. (SEC. 24, T. 6S., R. 5W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 162 FT, SCREENED 156-162, MP TOP OF 4-IN CASING, 2.0 FT ABOVE LSD.
 LSD 45.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 41.37 BELOW LSD, FEB. 28, 1974,
 LOWEST WATER LEVEL 43.92 BELOW LSD, NOV. 18, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	43.92	MAR. 15, 1977	43.13				

303203092530701 LOCAL WELL NUMBER: AL-280

OWNER: RESTER. (SEC. 16, T. 6S., R. 5W.) DRILLED UNUSED ARTESIAN WELL IN THE CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH AND SCREENED INTERVAL UNKNOWN, MP TOP OF CASING, 0.7 FT ABOVE LSD.
 LSD 47.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 27.28 BELOW LSD, FEB. 27, 1974,
 LOWEST WATER LEVEL 32.08 BELOW LSD, NOV. 24, 1976.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	32.00	NOV. 24	32.08	MAR. 15, 1977	29.83		

303443092502801 LOCAL WELL NUMBER: AL-283

OWNER: LON C. ROGERS. (SEC. 36, T. 5S., R. 5W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, REPORTED DEPTH 57 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF 2-IN WHITE PLASTIC CASING, 0.7 FT ABOVE LSD.
 LSD 62.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 34.80 BELOW LSD, FEB. 27, 1974,
 LOWEST WATER LEVEL 38.48 BELOW LSD, NOV. 17, 1972.
 RECORDS AVAILABLE 1972, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	38.10	NOV. 24	38.19	MAR. 15, 1977	37.48		

303813092480701 LOCAL WELL NUMBER: AL-284

OWNER: MARLER'S STORE. (SEC. 8, T. 5S., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 64 FT, SCREENED 58-64, MP TOP OF 2-IN GALV. PIPE, 2.0 FT ABOVE LSD.
 LSD 68.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 34.83 BELOW LSD, FEB. 27, 1974,
 LOWEST WATER LEVEL 36.90 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	36.90	MAR. 15, 1977	36.45				

304305092454601 LOCAL WELL NUMBER: AL-288

OWNER: TOMMY DOYLE. (SEC. 10, T. 4S., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 104 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF 2-IN IRON PIPE, 0.5 FT ABOVE LSD.
 LSD 83.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 19.54 BELOW LSD, FEB. 28, 1974,
 LOWEST WATER LEVEL 26.32 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	26.32	NOV. 22	23.42	MAR. 16, 1977	21.93		

303922092561401 LOCAL WELL NUMBER: AL-289

OWNER: UNKNOWN. (SEC. 36, T. 4S., R. 6W.) DRILLED UNUSED ARTESIAN WELL IN THE CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 47 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 0.35 FT ABOVE LSD.
 LSD 67.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 12.53 BELOW LSD, FEB. 28, 1974,
 LOWEST WATER LEVEL 18.02 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	18.02						

303853092561601 LOCAL WELL NUMBER: AL-290

OWNER: WM. B. J. COOK. (SEC. 1, T. 5S., R. 6W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 103 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 4-IN CASING WITH ELBOW UNSCREWED, 1.7 FT ABOVE LSD.
 LSD 65.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 12.19 BELOW LSD, FEB. 28, 1974,
 LOWEST WATER LEVEL 15.58 BELOW LSD, FEB. 28, 1973.
 RECORDS AVAILABLE 1973-74, 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	15.36						

304002092485501 LOCAL WELL NUMBER: AL-292

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 4S., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 124 FT, SCREENED 119-124. MP TOP OF 2-IN GALV. PIPE, 2.3 FT ABOVE LSD.
 LSD 70.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 18.27 BELOW LSD, MAR. 11, 1976,
 LOWEST WATER LEVEL 21.30 BELOW LSD, NOV. 22, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	21.22	NOV. 22	21.30	MAR. 15, 1977	19.38		

304337092504001 LOCAL WELL NUMBER: AL-293

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 4S., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 85 FT, SCREENED 80-85 FT. MP TOP OF 2-IN GALV. PIPE, 1.6 FT ABOVE LSD.
 LSD 100.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 27.63 BELOW LSD, JUNE 19, 1975,
 LOWEST WATER LEVEL 30.64 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	30.64	MAR. 15, 1977	28.74				

303150092575601 LOCAL WELL NUMBER: AL-294

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 6S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 142 FT, SCREENED 137-142. MP TOP OF 2-IN GALV. PIPE, 3.5 FT ABOVE LSD.
 LSD 48.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 22.20 BELOW LSD, JUNE 19, 1975,
 LOWEST WATER LEVEL 24.75 BELOW LSD, NOV. 18, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	24.75	MAR. 15, 1977	23.66				

GROUND-WATER LEVELS

ALLEN PARISH

304404092532901 LOCAL WELL NUMBER: AL-295

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 4S., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 163 FT, SCREENED 158-163. MP TOP OF 2-IN GALV. PIPE, 2.7 FT ABOVE LSD.
 LSD 88.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 19.40 BELOW LSD, JUNE 19, 1975,
 LOWEST WATER LEVEL 24.28 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	24.28	MAR. 15, 1977	20.29				

304211092540201 LOCAL WELL NUMBER: AL-296

OWNER: U. S. GEOL. SURVEY. (SEC. 17, T. 4S., R. 5W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 97 FT, SCREENED 92-97. MP TOP OF 2-IN GALV. PIPE, 3.0 FT ABOVE LSD.
 LSD 71.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 8.15 BELOW LSD, MAY 15, 1975,
 LOWEST WATER LEVEL 14.11 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	14.11	MAR. 16, 1977	9.59	JUNE 16, 1977	12.90		

303545092514601 LOCAL WELL NUMBER: AL-297

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 5S., R. 5W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 164 FT, SCREENED 159-164. MP TOP OF 2-IN GALV. PIPE, 2.9 FT ABOVE LSD.
 LSD 44.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 9.62 BELOW LSD, JUNE 19, 1975,
 LOWEST WATER LEVEL 12.42 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	12.42	MAR. 15, 1977	10.50				

303732092355401 LOCAL WELL NUMBER: AL-298

OWNER: U. S. GEOL. SURVEY. (SEC. 17, T. 5S., R. 2W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 137 FT, SCREENED 132-137. MP TOP OF 2-IN GALV. PIPE, 3.2 FT ABOVE LSD.
 LSD 52.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 52.68 BELOW LSD, FEB. 3, 1975,
 LOWEST WATER LEVEL 63.67 BELOW LSD, JUNE 19, 1975.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	62.78	MAR. 22, 1977	60.99				

304354092361001 LOCAL WELL NUMBER: AL-299

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 4S., R. 2W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 122 FT, SCREENED 116-122. MP TOP OF 2-IN GALV. PIPE, 1.8 FT ABOVE LSD.
 LSD 90.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 37.94 BELOW LSD, AUG. 21, 1974,
 LOWEST WATER LEVEL 38.74 BELOW LSD, MAR. 22, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	38.37	MAR. 22, 1977	38.74				

305010092510801 LOCAL WELL NUMBER: AL-300

OWNER: U. S. GEOL. SURVEY. (SEC. 35, T. 2S., R. 5W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 152 FT, SCREENED 146-152. MP TOP OF 2-IN GALV. PIPE, 3.0 FT ABOVE LSD.
 LSD 167.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 61.92 BELOW LSD, NOV. 20, 1975,
 LOWEST WATER LEVEL 64.74 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	64.74	MAR. 15, 1977	63.91				

305327092472301 LOCAL WELL NUMBER: AL-301

OWNER: U. S. GEOL. SURVEY. (SEC. 17, T. 2S., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 160 FT, SCREENED 154-160. MP TOP OF 2-IN GALV. PIPE, 1.9 FT ABOVE LSD.
 LSD 168.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 56.90 BELOW LSD, MAR. 4, 1976,
 LOWEST WATER LEVEL 59.59 BELOW LSD, FEB. 5, 1975.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	57.39	MAR. 22, 1977	58.35				

304157092400001 LOCAL WELL NUMBER: AL-303

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 4S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 144 FT, SCREENED 139-144. MP TOP OF 2-IN CASING, 2.0 FT ABOVE LSD.
 LSD 93.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 57.45 BELOW LSD, FEB. 5, 1975,
 LOWEST WATER LEVEL 58.55 BELOW LSD, MAR. 22, 1977.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	57.80	MAR. 22, 1977	58.55				

304901092461601 LOCAL WELL NUMBER: AL-304

OWNER: U. S. GEOL. SURVEY. (SEC. 10, T. 3S., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 104 FT, SCREENED 99-104. MP TOP OF 2-IN GALV. PIPE, 2.5 FT ABOVE LSD.
 LSD 114.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 20.67 BELOW LSD, MAR. 4, 1976,
 LOWEST WATER LEVEL 23.40 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	23.40	MAR. 22, 1977	21.53				

304936092541501 LOCAL WELL NUMBER: AL-305

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 3S., R. 5W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 164 FT, SCREENED 158-164. MP TOP OF 2-IN GALV. PIPE, 1.8 FT ABOVE LSD.
 LSD 162.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 54.98 BELOW LSD, NOV. 20, 1975,
 LOWEST WATER LEVEL 58.13 BELOW LSD, MAR. 15, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	57.35	MAR. 15, 1977	58.13				

GROUND-WATER LEVELS

ALLEN PARISH

304601092550701 LOCAL WELL NUMBER: AL-306

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 3S., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 107 FT, SCREENED 101-107. MP TOP OF 2-IN GALV. PIPE, 0.5 FT ABOVE LSD.
 LSD 77.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 3.35 BELOW LSD, MAR. 15, 1977,
 LOWEST WATER LEVEL 9.00 BELOW LSD, OCT. 24, 1974.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	8.91	MAR. 15, 1977	3.35				

304533092490701 LOCAL WELL NUMBER: AL-307

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 3S., R. 4W.) 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, 2.8 FT ABOVE LSD.
 LSD 100.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 19.60 BELOW LSD, JUNE 19, 1975,
 LOWEST WATER LEVEL 22.29 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	22.29	MAR. 15, 1977	21.20				

AVOYELLES PARISH

305700092102301 LOCAL WELL NUMBER: AV-35

OWNER: INTERSTATE PIPE LINE CO. (SEC. 21, T. 1S., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN THE BLOUNTS CREEK MEMBER OF THE FLEMING FM. OF MIOCENE-PLIOCENE AGE, DIAM 8 IN, DEPTH 716 FT, SCREENED 666-716 FT. MP TOP OF CASING, 1.0 FT ABOVE LSD.
 LSD 64.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 19.48 BELOW LSD, JUNE 18, 1962,
 LOWEST WATER LEVEL 29.33 BELOW LSD, JUNE 2, 1977.
 RECORDS AVAILABLE 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	28.77	MAR. 10, 1977	28.93	JUNE 2, 1977	29.33	SEP. 7, 1977	29.24

311006092081501 LOCAL WELL NUMBER: AV-163

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 2N., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 1 1/4 IN, DEPTH 300 FT, SCREENED 295-300 FT. MP TOP OF CASING, 1.5 FT ABOVE LSD.
 LSD 78.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 23.65 BELOW LSD, APR. 15, 1975,
 LOWEST WATER LEVEL 39.72 BELOW LSD, OCT. 13, 1972.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	37.06	MAR. 11, 1977	33.38	JUNE 2, 1977	33.57	SEP. 8, 1977	35.10

310453092022901 LOCAL WELL NUMBER: AV-164

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 47, T. 1N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE BLOUNTS CREEK MEMBER OF THE FLEMING FM. OF MIOCENE-PLIOCENE AGE, DIAM 1 1/4 IN, DEPTH 192 FT, SCREENED 182-192 FT. MP TOP OF CASING, 1.0 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 33.78 BELOW LSD, JUNE 30, 1975,
 LOWEST WATER LEVEL 41.69 BELOW LSD, OCT. 3, 1966.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	36.19	MAR. 10, 1977	35.86	JUNE 2, 1977	35.57		

AVOUELLES PARISH

310339092101501 LOCAL WELL NUMBER: AV-166

OWNER: FIFTH WARD WATER DISTRICT. (SEC. 16, T. 1N., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN, DEPTH 370 FT, SCREENED 320-370. MP TOP OF BREATHER PIPE, 2.0 FT ABOVE LSD.
 LSD 70.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 36.34 BELOW LSD, MAY 12, 1966,
 LOWEST WATER LEVEL 85.49 BELOW LSD, SEP. 8, 1977.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	81.52A	MAR. 10, 1977	77.60A	JUNE 2, 1977	78.62A	SEP. 8, 1977	85.49A

310453092022902 LOCAL WELL NUMBER: AV-177

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 47, T. 1N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE BLOUNTS CREEK MEMBER OF THE FLEMING FM. OF MIOCENE-PLIOCENE AGE, DIAM 1 1/4 IN, DEPTH 360 FT, SCREENED 350-360. MP TOP OF CASING, 4.0 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 34.30 BELOW LSD, APR. 15, 1975,
 LOWEST WATER LEVEL 39.73 BELOW LSD, OCT. 13, 1972.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	37.87	MAR. 10, 1977	37.12	JUNE 2, 1977	37.06	SEP. 8, 1977	38.00

311336092095901 LOCAL WELL NUMBER: AV-271

OWNER: U. S. GEOL. 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 CASING, 3.4 FT ABOVE LSD.
 LSD 95.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 55.05 BELOW LSD, JULY 18, 1973, JUNE 30, 1975,
 LOWEST WATER LEVEL 63.56 BELOW LSD, DEC. 10, 1976.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	63.56	MAR. 10, 1977	62.68	JUNE 2, 1977	61.81	SEP. 8, 1977	63.45

310321092103901 LOCAL WELL NUMBER: AV-307

OWNER: FIFTH WARD WATER DISTRICT. (SEC. 16, T. 1N., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN, DEPTH 409 FT, SCREENED 359-409. MP TOP OF STEEL PLATE, 1.0 FT ABOVE LSD.
 LSD 70.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 35.91 BELOW LSD, JUNE 20, 1966,
 LOWEST WATER LEVEL 69.14 BELOW LSD, JULY 16, 1974.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	44.01	MAR. 10, 1977	42.68	JUNE 2, 1977	42.59		

BEAUREGARD PARISH

303030093120501 LOCAL WELL NUMBER: BE-2

OWNER: SOUTHERN PACIFIC RR. (SEC. 29, T. 6S., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, REPORTED DEPTH 276 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 2-IN NIPPLE, 0.48 FT ABOVE LSD.
 LSD 83.83 FT ABOVE MSL.
 HIGHEST WATER LEVEL 41.54 BELOW LSD, APR. 27, 1944,
 LOWEST WATER LEVEL 67.62 BELOW LSD, FEB. 26, 1973.
 RECORDS AVAILABLE 1943-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	63.46	JAN. 26, 1977	63.17	MAY 27, 1977	63.97	AUG. 30, 1977	63.99
NOV. 12	63.63	FEB. 24	62.97	JUNE 15	64.53	SEP. 26	63.82
DEC. 22	63.42	MAR. 15	63.29	JULY 21	64.50		

See footnotes at end of table.

302803093135101 LOCAL WELL NUMBER: BE-73

OWNER: DENNIS SIMON. (SEC. 7, T. 7S., R. 8W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 8 IN, REPORTED DEPTH 399 FT, SCREENED INTERVAL UNKNOWN, MP LOWER LIP OF DISCHARGE PIPE, 4.85 FT ABOVE LSD.
 LSD 78.12 FT ABOVE MSL.
 HIGHEST WATER LEVEL 58.20 BELOW LSD, MAR. 15, 1977,
 LOWEST WATER LEVEL 78.61 BELOW LSD, MAR. 1, 1976.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1977	58.20						

305033093214601 LOCAL WELL NUMBER: BE-98

OWNER: SAVOY AUGUSTINE. (SEC. 35, T. 2S., R. 10W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, REPORTED DEPTH 223 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF DISCHARGE PIPE, 4.20 FT ABOVE LSD.
 LSD 203.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 32.80 BELOW LSD, APR. 22, 1969,
 LOWEST WATER LEVEL 39.34 BELOW LSD, MAR. 29, 1971.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	35.10	MAR. 14, 1977	33.28				

305004093231101 LOCAL WELL NUMBER: BE-99

OWNER: SAVOY AUGUSTINE. (SEC. 4, T. 3S., R. 10W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 16 IN, REPORTED DEPTH 188 FT, SCREENED INTERVAL UNKNOWN, MP LOWER EDGE OF DISCHARGE PIPE, 8.0 FT ABOVE LSD.
 LSD 210.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 28.12 BELOW LSD, MAY 27, 1968,
 LOWEST WATER LEVEL 33.37 BELOW LSD, SEP. 7, 1972.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	29.46	MAR. 14, 1977	29.60				

304926093040301 LOCAL WELL NUMBER: BE-178

OWNER: J. D. HOLT. (SEC. 3, T. 3S., R. 7W.) DRILLED DOMESTIC ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, REPORTED DEPTH 110 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF CASING, 0.5 FT ABOVE LSD.
 LSD 187.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 62.78 BELOW LSD, MAR. 13, 1974,
 LOWEST WATER LEVEL 70.86 BELOW LSD, JUNE 15, 1971.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	66.59	MAR. 15, 1977	65.85				

304509093322201 LOCAL WELL NUMBER: BE-376

OWNER: MERRYVILLE WATER WORKS. (SEC. 36, T. 3S., R. 12W.) DRILLED UNUSED ARTESIAN WELL IN EVANGELINE AQUIFER OF MIO-PLIOCENE AGE, DIAM 4 IN, REPORTED DEPTH 450 FT, SCREENED 429-450. MP TOP OF 3/4-IN COUPLING, 1.1 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 0.55 BELOW LSD, JUNE 26, 1975,
 LOWEST WATER LEVEL 2.24 BELOW LSD, NOV. 8, 1976.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1976	2.24	MAR. 14, 1977	2.08				

303614093203201 LOCAL WELL NUMBER: BE-382

OWNER: A. B. MARCANTEL. (SEC. 25, T. 5S., R. 10W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 12 IN, REPORTED DEPTH 250 FT, SCREENED 190-250. MP HOLE IN COVER PLATE, AT LAND SURFACE.
 LSD 132.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 78.08 BELOW LSD, MAR. 1, 1976.
 LOWEST WATER LEVEL 85.73 BELOW LSD, APR. 2, 1970.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	79.32	MAR. 14, 1977	78.48

304312093171201 LOCAL WELL NUMBER: BE-384

OWNER: O. M. GRANGER. (SEC. 16, T. 4S., R. 9W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 TO 10, REPORTED DEPTH 220 FT, SCREENED 170-220. MP LOWER LIP OF DISCHARGE PIPE, 4.55 FT ABOVE LSD.
 LSD 167.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 52.82 BELOW LSD, JAN. 9, 1969.
 LOWEST WATER LEVEL 60.83 BELOW LSD, SEP. 30, 1968.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	54.34	MAR. 14, 1977	54.73

303100093411201 LOCAL WELL NUMBER: BE-400

OWNER: SINCLAIR OIL CO. (SEC. 27, T. 6S., R. 13W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, REPORTED DEPTH 165 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF COUPLING, 2.80 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 32.71 BELOW LSD, FEB. 6, 1974.
 LOWEST WATER LEVEL 41.73 BELOW LSD, NOV. 17, 1971.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1976	39.58	MAR. 11, 1977	35.50

304444093013401 LOCAL WELL NUMBER: BE-429

OWNER: E. BEAUREGARD SCHOOL BOARD. (SEC. 6, T. 4S., R. 6W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 188 FT, SCREENED 168-188. MP PIPE FITTING ON SIDE OF CASING, 2.5 FT ABOVE LSD.
 LSD 152.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 59.17 BELOW LSD, MAR. 11, 1976.
 LOWEST WATER LEVEL 59.54 BELOW LSD, FEB. 28, 1974.
 RECORDS AVAILABLE 1974-76.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	59.37		

303644093020401 LOCAL WELL NUMBER: BE-430

OWNER: U.S. GEOL. 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 3.0 FT ABOVE LSD.
 LSD 120.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 59.73 BELOW LSD, MAR. 2, 1976.
 LOWEST WATER LEVEL 60.98 BELOW LSD, APR. 24, 1974.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	59.74	MAR. 15, 1977	60.05

GROUND-WATER LEVELS

BEAUREGARD PARISH

304055093024201 LOCAL WELL NUMBER: BE-431

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 4S., R. 7W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 84 FT, SCREENED 79-84. MP TOP OF 2-IN GALV. PIPE, 2.1 FT ABOVE LSD.
 LSD 70.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 1.40 BELOW LSD, MAR. 15, 1977,
 LOWEST WATER LEVEL 6.35 BELOW LSD, NOV. 11, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	6.35	MAR. 15, 1977	1.40				

305044093014501 LOCAL WELL NUMBER: BE-432

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 2S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 122 FT, SCREENED 117-122. MP TOP OF 2-IN GALV. PIPE, 1.8 FT ABOVE LSD.
 LSD 164.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 32.60 BELOW LSD, MAY 7, 1974,
 LOWEST WATER LEVEL 36.04 BELOW LSD, NOV. 11, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	36.04	MAR. 15, 1977	34.48				

305145093035601 LOCAL WELL NUMBER: BE-433

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 2S., R. 7W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 82 FT, SCREENED 77-82. MP TOP OF 2-IN GALV. PIPE, 3.7 FT ABOVE LSD.
 LSD 132.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 3.93 BELOW LSD, DEC. 4, 1975,
 LOWEST WATER LEVEL 8.18 BELOW LSD, NOV. 11, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	8.18	MAR. 15, 1977	4.24				

305144093084501 LOCAL WELL NUMBER: BE-434

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 2S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 163 FT, SCREENED 158-163. MP TOP OF 2-IN GALV. PIPE, 1.6 FT ABOVE LSD.
 LSD 201.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 40.22 BELOW LSD, MAY 23, 1974,
 LOWEST WATER LEVEL 42.79 BELOW LSD, NOV. 11, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	42.79	MAR. 15, 1977	41.71				

305019093292401 LOCAL WELL NUMBER: BE-435

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 3S., R. 11W) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 124 FT, SCREENED 119-124. MP TOP OF 2-IN GALV. PIPE, 4.3 FT ABOVE LSD.
 LSD 129.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 12.27 BELOW LSD, JULY 16, 1975,
 LOWEST WATER LEVEL 13.68 BELOW LSD, AUG. 18, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	13.40	MAR. 14, 1977	13.43	AUG. 18, 1977	13.68		

305011093303801 LOCAL WELL NUMBER: BE-436

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 2S., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 89 FT, SCREENED 84-89. MP TOP OF 2-IN GALV. PIPE, 2.3 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 0.82 ABOVE LSD, MAR. 14, 1977,
 LOWEST WATER LEVEL 3.39 BELOW LSD, NOV. 9, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	3.39	MAR. 14, 1977	+0.82	AUG. 18, 1977	2.82		

304755093315801 LOCAL WELL NUMBER: BE-437

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 3S., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 60 FT, SCREENED 55-60. MP TOP OF 2-IN GALV. PIPE, 5.6 FT ABOVE LSD.
 LSD 90.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 8.68 BELOW LSD, JUNE 26, 1975,
 LOWEST WATER LEVEL 17.81 BELOW LSD, NOV. 9, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	17.81	MAR. 14, 1977	9.18	AUG. 18, 1977	10.94		

304320093314001 LOCAL WELL NUMBER: BE-438

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 4S., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 144 FT, SCREENED 139-144. MP TOP OF 2-IN GALV. PIPE, 1.4 FT ABOVE LSD.
 LSD 98.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 8.98 BELOW LSD, JUNE 26, 1975,
 LOWEST WATER LEVEL 13.95 BELOW LSD, NOV. 8, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1976	13.95	MAR. 14, 1977	10.82				

304556093142501 LOCAL WELL NUMBER: BE-439

OWNER: U.S. GEOL. SURVEY. (SEC. 36, T. 3S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 189 FT, SCREENED 184-189. MP TOP OF 2-IN GALV. PIPE, 2.5 FT ABOVE LSD.
 LSD 169.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 46.77 BELOW LSD, DEC. 1, 1975,
 LOWEST WATER LEVEL 49.08 BELOW LSD, NOV. 9, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	49.08	MAR. 14, 1977	47.04				

305251093211401 LOCAL WELL NUMBER: BE-440

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 2S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 169 FT, SCREENED 164-169. MP TOP OF 2-IN GALV. PIPE, 2.45 FT ABOVE LSD.
 LSD 212.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 39.22 BELOW LSD, NOV. 9, 1976,
 LOWEST WATER LEVEL 43.76 BELOW LSD, MAR. 3, 1976.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	39.22	MAR. 14, 1977	43.59				

See footnotes at end of table.

GROUND-WATER LEVELS

BEAUREGARD PARISH

30420509333101 LOCAL WELL NUMBER: BE-441

OWNER: U. S. GEOL. SURVEY. (SEC. 22, T. 4S., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 133 FT, SCREENED 128-133. MP TOP OF 2-IN GALV. PIPE, 2.8 FT ABOVE LSD.
 LSD 163.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 62.47 BELOW LSD, DEC. 1, 1975,
 LOWEST WATER LEVEL 64.41 BELOW LSD, NOV. 8, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1976	64.41	MAR. 14, 1977	62.94				

304248093232601 LOCAL WELL NUMBER: BE-442

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 4S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 144 FT, SCREENED 139-144. MP TOP OF 2-IN GALV. PIPE, 2.1 FT ABOVE LSD.
 LSD 150.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 38.47 BELOW LSD, DEC. 1, 1975,
 LOWEST WATER LEVEL 40.38 BELOW LSD, NOV. 8, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1976	40.38	MAR. 14, 1977	38.69				

305018093251301 LOCAL WELL NUMBER: BE-443

OWNER: U. S. GEOL. 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, 2.4 FT ABOVE LSD.
 LSD 206.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 34.16 BELOW LSD, JUNE 26, 1975,
 LOWEST WATER LEVEL 36.62 BELOW LSD, NOV. 9, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	36.62	MAR. 14, 1977	35.17	AUG. 18, 1977	36.48		

304941092584201 LOCAL WELL NUMBER: BE-445

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 3S., R. 6W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 98 FT, SCREENED 92-98. MP TOP OF 2-IN GALV. PIPE, 2.3 FT ABOVE LSD.
 LSD 135.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 21.42 BELOW LSD, MAR. 2, 1976,
 LOWEST WATER LEVEL 23.37 BELOW LSD, MAR. 15, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	23.34	MAR. 15, 1977	23.37				

303933093353601 LOCAL WELL NUMBER: BE-446

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 5S., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 157 FT, SCREENED 152-157. MP TOP OF 2-IN GALV. PIPE, 4.2 FT ABOVE LSD.
 LSD 83.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 23.07 BELOW LSD, JUNE 26, 1975,
 LOWEST WATER LEVEL 25.59 BELOW LSD, NOV. 8, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 8, 1976	25.59	MAR. 8, 1977	24.01				

BEAUREGARD PARISH

304445093351701 LOCAL WELL NUMBER: BE-456

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 4S., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN ALLUVIAL AQUIFER OF QUATERNARY AGE, DIAM 2 IN, DEPTH 83 FT, SCREENED 78-83. MP TOP OF 2-IN PIPE, 2.9 FT ABOVE LSD.

LSD 70.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 14.16 BELOW LSD, AUG. 18, 1977.

LOWEST WATER LEVEL 14.16 BELOW LSD, AUG. 18, 1977.

RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 18, 1977	14.16						

303606093384201 LOCAL WELL NUMBER: BE-457

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 5S., R. 13W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 155 FT, SCREENED 150-155. MP TOP OF 2-IN PIPE, 2.3 FT ABOVE LSD.

LSD 95.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 45.74 BELOW LSD, MAR. 4, 1977.

LOWEST WATER LEVEL 49.67 BELOW LSD, AUG. 18, 1977.

RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 4, 1977	45.74	AUG. 18	49.67				

BIENVILLE PARISH

323241093031901 LOCAL WELL NUMBER: BI-1

OWNER: TOWN OF GIBSLAND. (SEC. 14, T. 18N., R. 7W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 6 IN, DEPTH 490 FT, SCREENED INTERVAL UNKNOWN. MP FLOOR OF RECORDER SHELTER, 3.15 FT ABOVE LSD.

LSD 270.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 57.30 BELOW LSD, MAY 9, 1958.

LOWEST WATER LEVEL 87.30 BELOW LSD, MAR. 16, 1977.

RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	87.30	MAY 4	82.11	SEP. 1, 1977	85.93		

323241093032401 LOCAL WELL NUMBER: BI-2

OWNER: TOWN OF GIBSLAND. (SEC. 14, T. 18, R. 7W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 8 IN, DEPTH 490 FT, SCREENED 429-490. MP TOP OF CASING, 3.8 FT ABOVE LSD.

LSD 260.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 45.68 BELOW LSD, MAR. 31, 1949.

LOWEST WATER LEVEL 80.49 BELOW LSD, MAY 23, 1977.

RECORDS AVAILABLE 1940, 1948-71, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	72.97	MAY 23, 1977	80.49	JUNE 28, 1977	79.18		

323251092551901 LOCAL WELL NUMBER: BI-4

OWNER: LOUISIANA GAS SERVICE CO. (SEC. 18, T. 18N., R. 5W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 6 IN, DEPTH 585 FT, SCREENED 518-585. MP TOP OF CASING, 3.5 FT ABOVE LSD.

LSD 350.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 149.55 BELOW LSD, OCT. 9, 1940.

LOWEST WATER LEVEL 228.75 BELOW LSD, JULY 1, 1977.

RECORDS AVAILABLE 1940, 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	213.23	MAY 4, 1977	220.50	MAY 20, 1977	226.14	SEP. 7, 1977	225.80
FEB. 16, 1977	217.61	MAY 11	228.15	JULY 1	228.75		

GROUND-WATER LEVELS

BIENVILLE PARISH

321709092523901 LOCAL WELL NUMBER: BI-112

OWNER: CONTINENTAL CAN COMPANY. (SEC. 16, T. 15N., R. 5W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 4 IN, DEPTH 348 FT, SCREENED 338-348. MP TOP OF CASING, 2.15 FT ABOVE LSD.

LSD 215.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 67.43 BELOW LSD, AUG. 5, 1966,

LOWEST WATER LEVEL 112.89 BELOW LSD, MAR. 10, 1974.

RECORDS AVAILABLE 1966, 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	108.03H	JAN. 25, 1977	105.20	MAR. 31, 1977	105.14	JUNE 5, 1977	112.35
OCT. 5	108.30	JAN. 31	106.08	APR. 5	105.08	JUNE 10	112.35
OCT. 10	108.65	FEB. 5	106.37	APR. 10	105.76	JUNE 15	112.34
OCT. 15	108.85	FEB. 10	106.59	APR. 15	106.47	JUNE 20	112.34
OCT. 20	109.09	FEB. 11	106.33H	APR. 20	106.53	JUNE 23	111.85H
OCT. 25	110.75	FEB. 15	106.50	APR. 25	108.80	AUG. 2	109.05H
OCT. 28	111.64J	FEB. 20	106.29	APR. 30	109.89	AUG. 5	108.71
OCT. 31	110.74	FEB. 25	105.98	MAY 4	109.93H	AUG. 10	109.13
NOV. 5	111.48	FEB. 28	105.85	MAY 5	110.18	SEP. 7	102.82H
NOV. 10	110.54	MAR. 5	105.45	MAY 10	111.02	SEP. 10	102.64
NOV. 15	110.12	MAR. 10	105.25	MAY 15	111.75	SEP. 15	101.36
NOV. 18	109.92H	MAR. 15	105.16	MAY 20	111.98	SEP. 20	100.58
NOV. 20	109.75	MAR. 17	104.96J	MAY 25	112.16	SEP. 25	100.16
JAN. 21, 1977	104.22H	MAR. 20	105.06	MAY 26	112.18J	SEP. 30	105.55
JAN. 24	104.77H	MAR. 25	105.11	MAY 31	112.35		

323505092535001 LOCAL WELL NUMBER: BI-144

OWNER: U. S. GEOL. 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, 3.0 FT ABOVE LSD.

LSD 320.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 198.27 BELOW LSD, SEP. 1, 1970,

LOWEST WATER LEVEL 209.56 BELOW LSD, SEP. 7, 1977.

RECORDS AVAILABLE 1970-73, 1975, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 4, 1977	207.37	SEP. 7	209.56				

322436092500501 LOCAL WELL NUMBER: BI-166

OWNER: U. S. GEOL. SURVEY. (SEC. 1, T. 16N., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 472, SCREENED 462-472. MP TOP OF BUSHING, 3.5 FT ABOVE LSD.

LSD 260.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 155.21 BELOW LSD, APR. 28, 1975,

LOWEST WATER LEVEL 159.12 BELOW LSD, JULY 1, 1977.

RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	157.56	MAY 4, 1977	157.60	JULY 1, 1977	159.12	SEP. 1, 1977	158.70
FEB. 16, 1977	156.75	MAY 23	158.01				

BOSSIER PARISH

322518093381701 LOCAL WELL NUMBER: B0-136

OWNER: L S U RED RIVER VALLEY EXPERIMENT STATION. (SEC. 31, T. 17N., R. 12W.) DRILLED UNUSED ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 4 IN, DEPTH 180 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 8-IN PIT CASING, 0.6 FT ABOVE LSD.

LSD 155.42 FT ABOVE MSL.

HIGHEST WATER LEVEL 10.59 BELOW LSD, JUNE 10, 1958,

LOWEST WATER LEVEL 23.71 BELOW LSD, AUG. 31, 1972.

RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 16, 1976	13.43	MAR. 16, 1977	21.28	MAY 25, 1977	19.89	SEP. 8, 1977	22.73

See footnotes at end of table.

CADDO PARISH

325045093513701 LOCAL WELL NUMBER: CD-345

OWNER: U.S. GEOL. SURVEY. (SEC. 6, T. 21N., R. 14W.) BORED OBSERVATION ARTESIAN WELL IN THE RED RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 54 FT, SCREENED 51-54. MP TOP OF CASING, 1.3 FT ABOVE LSD.
 LSD 189.71 FT ABOVE MSL.
 HIGHEST WATER LEVEL 5.81 BELOW LSD, MAY 15, 1975,
 LOWEST WATER LEVEL 17.08 BELOW LSD, JAN. 18, 1957.
 RECORDS AVAILABLE 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 5, 1976	12.33	MAR. 4, 1977	10.64	MAY 24, 1977	10.92	JULY 12, 1977	11.80G
DEC. 2	12.70G	APR. 6	9.90G	JUNE 27	11.47	SEP. 8	12.67
JAN. 13, 1977	12.50G						

CALDWELL PARISH

320154092164602 LOCAL WELL NUMBER: CA-86A

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 12N., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 288 FT, SCREENED 278-288. MP TOP OF CASING, 2.83 FT ABOVE LSD.
 LSD 160.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 48.45 BELOW LSD, JAN. 13, 1976,
 LOWEST WATER LEVEL 50.77 BELOW LSD, OCT. 21, 1974.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 6, 1976	50.11	MAY 2, 1977	49.44	JUNE 2, 1977	49.85	SEP. 7, 1977	50.53
MAR. 8, 1977	49.63						

320154092164601 LOCAL WELL NUMBER: CA-86B

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 12N., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 545 FT, SCREENED 535-545. MP TOP OF CASING, 4.0 FT ABOVE LSD.
 LSD 160.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 80.85 BELOW LSD, SEP. 7, 1977,
 LOWEST WATER LEVEL 85.76 BELOW LSD, DEC. 10, 1974.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 6, 1976	82.84	MAY 2, 1977	81.40	JUNE 2, 1977	81.49	SEP. 7, 1977	80.85
MAR. 8, 1977	81.55						

CATAHOULA PARISH

311500091582501 LOCAL WELL NUMBER: CT-74

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 3N., R. 5E.) DRILLED OBSERVATION ARTESIAN WELL IN THE RED RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 196 FT, SCREENED 186-196. MP TOP OF BUSHING, 3.00 FT ABOVE LSD.
 LSD 50.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 4.62 ABOVE LSD, APR. 16, 1975,
 LOWEST WATER LEVEL 31.00 BELOW LSD, SEP. 8, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 19, 1974	13.30	OCT. 8, 1975	20.70G	JUNE 28, 1976	16.70	MAR. 14, 1977	13.90G
OCT. 1	11.40G	OCT. 29	20.62	JULY 6	16.50G	MAR. 14	13.68
OCT. 25	16.30	NOV. 3	20.90G	AUG. 4	19.60G	MAR. 30	14.60
NOV. 22	8.10G	DEC. 1	22.60G	SEP. 8	31.00G	APR. 11	9.87
NOV. 29	7.40	JAN. 23, 1976	20.20G	OCT. 5	23.80G	APR. 13	9.90G
DEC. 3	7.20G	FEB. 2	19.13	OCT. 22	23.70	MAY 5	9.70G
DEC. 19	5.61	FEB. 4	19.90G	NOV. 5	23.90G	MAY 6	10.46
JAN. 28, 1975	4.90	MAR. 1	17.70G	NOV. 15	23.79	JUNE 2	17.20G
APR. 2	+1.17	MAR. 16	12.10	DEC. 6	24.40G	JUNE 10	17.00
APR. 5	+1.76	MAR. 23	10.20	DEC. 21	22.40G	JULY 7	22.20G
APR. 16	+4.62	MAR. 31	9.80G	JAN. 5, 1977	23.10G	JULY 12	21.69
MAY 8	+2.48	APR. 21	13.76	JAN. 24	20.55	AUG. 3	23.70G
JULY 21	9.77	MAY 3	14.00G	FEB. 7	20.54	SEP. 15	24.70G
AUG. 11	14.60G	MAY 28	15.15	FEB. 17	19.60G	SEP. 16	23.45
SEP. 2	17.10G	JUNE 2	16.10G				

See footnotes at end of table.

GROUND-WATER LEVELS

CLAIBORNE PARISH

325752093082701 LOCAL WELL NUMBER: CL-9

OWNER: TOWN OF HAYNESVILLE. (SEC. 24, T. 23N., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 12 IN, DEPTH 670 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 3/4-IN COLLAR, 1.4 FT ABOVE LSD.
 LSD 360.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 212.45 BELOW LSD, DEC. 20, 1961.
 LOWEST WATER LEVEL 269.02 BELOW LSD, AUG. 15, 1962.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1977	259.29	MAY 3, 1977	259.23	MAY 26, 1977	262.65	SEP. 2, 1977	262.78

324707093025001 LOCAL WELL NUMBER: CL-58

OWNER: CITY OF HOMER. (SEC. 25 T. 21N., R. 7W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 12 IN, DEPTH 482 FT, SCREENED 432-482. MP TOP OF 1-IN PIPE, 2.8 FT ABOVE LSD.
 LSD 260.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 95.64 BELOW LSD, JAN. 8, 1958.
 LOWEST WATER LEVEL 141.19 BELOW LSD, AUG. 15, 1962.
 RECORDS AVAILABLE 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	131.68	MAY 3, 1977	134.89	JUNE 27, 1977	137.59	SEP. 1, 1977	137.62
FEB. 16, 1977	131.68	MAY 26	135.10				

323943092573601 LOCAL WELL NUMBER: CL-136

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 19N., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 835 FT, SCREENED 825-835. MP TOP OF CASING, 3.5 FT ABOVE LSD.
 LSD 405.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 297.80 BELOW LSD, JUNE 26, 1974.
 LOWEST WATER LEVEL 302.91 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	300.18	MAY 3, 1977	300.83	JUNE 3, 1977	301.58	SEP. 1, 1977	302.91
MAR. 16, 1977	300.60						

325706092591001 LOCAL WELL NUMBER: CL-137

OWNER: U. S. GEOL. SURVEY. (SEC. 28, T. 23N., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 639 FT, SCREENED 629-639. MP TOP OF CASING, 4.0 FT ABOVE LSD.
 LSD 280.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 211.44 BELOW LSD, MAY 14, 1975.
 LOWEST WATER LEVEL 216.35 BELOW LSD, SEP. 2, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1977	215.09	MAY 3, 1977	215.06	MAY 26, 1977	215.24	SEP. 2, 1977	216.35

323908093093101 LOCAL WELL NUMBER: CL-138

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 19N., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 661 FT, SCREENED 651-661. MP TOP OF CASING, 3.8 FT ABOVE LSD.
 LSD 380.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 206.29 BELOW LSD, JULY 15, 1975.
 LOWEST WATER LEVEL 210.43 BELOW LSD, SEP. 2, 1977.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	208.55	MAY 3, 1977	208.56	JULY 7, 1977	209.75	SEP. 2, 1977	210.43
MAR. 15, 1977	208.75	MAY 23	208.89				

CONCORDIA PARISH

313604091481901 LOCAL WELL NUMBER: CO-50

OWNER: MONTEREY WATER SYSTEM. (SEC. 12, T. 7N., R. 6E.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CATAHOULA FM. OF MIOCENE AGE, DIAM 4 IN, DEPTH 700 FT, SCREENED 680-700. MP TOP OF HOLE IN PUMP BASE, 2.00 FT ABOVE LSD.
 LSD 55.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 4.01 BELOW LSD, AUG. 15, 1970,
 LOWEST WATER LEVEL 41.71 BELOW LSD, JAN. 5, 1977.
 RECORDS AVAILABLE 1970, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 15, 1970	4.01	JAN. 24, 1977	14.80	APR. 20, 1977	9.50	JULY 13, 1977	16.28
JAN. 5, 1977	41.71A	MAR. 9	13.82	JUNE 3	41.35A	SEP. 7	15.30

DE SOTO PARISH

320731093561901 LOCAL WELL NUMBER: DS-177

OWNER: HOWARD DENNISON. (SEC. 7, T. 13N., R. 15W.) DRILLED UNUSED ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 4 IN, DEPTH 350 FT, CASING PERFORATED 290-350. MP TOP OF CASING, 1.05 FT ABOVE LSD.
 LSD 300.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 36.13 BELOW LSD, MAY 27, 1962,
 LOWEST WATER LEVEL 56.68 BELOW LSD, JUNE 7, 1977.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	53.44	MAR. 15, 1977	54.85	JUNE 7, 1977	56.68	SEP. 1, 1977	56.39

EAST CARROLL PARISH

324040091110801 LOCAL WELL NUMBER: EC-55

OWNER: ELTON FORTENBERRY. (SEC. 38, T. 20N., R. 12E.) DRILLED IRRIGATION SEMIARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, DEPTH 114 FT, SCREENED 74-114. MP TOP INSIDE EDGE OF DISCHARGE PIPE, 4.35 FT ABOVE LSD.
 LSD 97.00 FT ABOVE MSL.
 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
DEC. 15, 1976	22.49	MAR. 24, 1977	23.79	MAY 20, 1977	21.78	SEP. 2, 1977	22.45

325100091132401 LOCAL WELL NUMBER: EC-89

OWNER: U. S. GEOL. SURVEY. (SEC. 41, T. 22N., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 4 TO 2 IN, DEPTH 335 FT, SCREENED 330-335. MP TOP OF CASING, 0.72 FT ABOVE LSD.
 LSD 106.05 FT ABOVE MSL.
 HIGHEST WATER LEVEL 13.53 BELOW LSD, MAY 14, 1958,
 LOWEST WATER LEVEL 23.18 BELOW LSD, SEP. 7, 1977.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	21.35	MAR. 24, 1977	18.99	SEP. 7, 1977	23.18		

325100091132402 LOCAL WELL NUMBER: EC-90

OWNER: U. S. GEOL. SURVEY. (SEC. 41, T. 22N., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 88 FT, SCREENED 83-88. MP TOP OF CASING, 0.75 FT ABOVE LSD.
 LSD 106.05 FT ABOVE MSL.
 HIGHEST WATER LEVEL 13.31 BELOW LSD, MAR. 22, 1973,
 LOWEST WATER LEVEL 22.96 BELOW LSD, SEP. 21, 1966.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	19.76	MAR. 24, 1977	16.80	MAY 20, 1977	18.56	SEP. 7, 1977	21.05

See footnotes at end of table.

GROUND-WATER LEVELS

EVANGELINE PARISH

304124092242801 LOCAL WELL NUMBER: EV-1

OWNER: LAHAYE BROTHERS, INC. (SEC. 20, T. 4S., R. 1E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 10 IN, REPORTED DEPTH 210 FT, SCREENED 130-210. MP LOWER LIP OF DISCHARGE PIPE, 3.40 FT ABOVE LSD.
 LSD 70.64 FT ABOVE MSL.
 HIGHEST WATER LEVEL 38.51 BELOW LSD, JAN. 21, 1943,
 LOWEST WATER LEVEL 97.38 BELOW LSD, JULY 16, 1951.
 RECORDS AVAILABLE 1940-70, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	91.10						

305015092171001 LOCAL WELL NUMBER: EV-3

OWNER: STATE OF LOUISIANA. (IRREG. SEC. 33, T. 2S., R. 2E.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, REPORTED DEPTH 199 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING FLANGE, 1.55 FT ABOVE LSD.
 LSD 75.21 FT ABOVE MSL.
 HIGHEST WATER LEVEL 30.92 BELOW LSD, MAR. 12, 1946,
 LOWEST WATER LEVEL 40.05 BELOW LSD, FEB. 27, 1970.
 RECORDS AVAILABLE 1940, 1944-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	39.14						

304249092183601 LOCAL WELL NUMBER: EV-7

OWNER: R. E. DUPRE. (IRREG. SEC. 8, T. 4S., R. 2E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, REPORTED DEPTH 300 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 4.30 FT ABOVE LSD.
 LSD 76.34 FT ABOVE MSL.
 HIGHEST WATER LEVEL 67.50 BELOW LSD, APR. 21, 1950,
 LOWEST WATER LEVEL 99.86 BELOW LSD, FEB. 17, 1971.
 RECORDS AVAILABLE 1950-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	93.16						

303301092315801 LOCAL WELL NUMBER: EV-18

OWNER: L. J. LEFLEUR AND OTHERS. (SEC. 12, T. 6S., R. 2W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, REPORTED DEPTH 275 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 4.05 FT ABOVE LSD.
 LSD 44.70 FT ABOVE MSL.
 HIGHEST WATER LEVEL 33.81 BELOW LSD, APR. 22, 1944,
 LOWEST WATER LEVEL 83.39 BELOW LSD, AUG. 28, 1962.
 RECORDS AVAILABLE 1944-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	79.05						

303521092325001 LOCAL WELL NUMBER: EV-23

OWNER: ADA M. SOILEAU. (IRREG. SEC. 26, T. 5S., R. 2W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, DEPTH 360 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 1 1/4-IN PIPE, 0.14 FT ABOVE LSD.
 LSD 51.06 FT ABOVE MSL.
 HIGHEST WATER LEVEL 37.94 BELOW LSD, MAR. 13, 1947,
 LOWEST WATER LEVEL 83.98 BELOW LSD, MAR. 8, 1977.
 RECORDS AVAILABLE 1946-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	83.98C						

See footnotes at end of table.

304742092334001 LOCAL WELL NUMBER: EV-46

OWNER: J. D. MOREIN. (SEC. 15, T. 3S., R. 2W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN, DEPTH 111 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF COUPLING, 2.20 FT ABOVE LSD.

LSD 107.68 FT ABOVE MSL.

HIGHEST WATER LEVEL 27.01 BELOW LSD, JULY 6, 1949,

LOWEST WATER LEVEL 42.47 BELOW LSD, FEB. 17, 1971.

RECORDS AVAILABLE 1945-54, 1958-72, 1974-75, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	41.76						

304156092155301 LOCAL WELL NUMBER: EV-127

OWNER: LUCY V. DARDEAU. (IRREG. SEC. 49, T. 4S., R. 2E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN, REPORTED DEPTH 230 FT, SCREENED INTERVAL UNKNOWN, MP LOWER LIP OF DISCHARGE PIPE, 6.25 FT ABOVE LSD.

LSD 78.67 FT ABOVE MSL.

HIGHEST WATER LEVEL 83.69 BELOW LSD, MAR. 22, 1954,

LOWEST WATER LEVEL 96.40 BELOW LSD, FEB. 25, 1974.

RECORDS AVAILABLE 1953-72, 1974-75, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	95.31						

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 MSL.

HIGHEST WATER LEVEL 45.52 BELOW LSD, APR. 18, 1951,

LOWEST WATER LEVEL 104.18 BELOW LSD, JULY 5, 1977.

RECORDS AVAILABLE 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	84.73H	JAN. 15, 1977	79.74	APR. 10, 1977	87.07	JULY 10, 1977	103.70
OCT. 5	84.41	JAN. 20	79.79	APR. 15	89.67	JULY 15	100.39
OCT. 10	84.23	JAN. 25	79.59	APR. 20	86.32	JULY 19	97.35H
OCT. 15	83.90	JAN. 31	79.38	APR. 25	84.87	JULY 20	96.89
OCT. 20	83.74	FEB. 5	79.08	APR. 26	85.83H	JULY 25	95.39
OCT. 25	83.29	FEB. 10	79.08	APR. 30	90.84	JULY 31	93.54
OCT. 31	83.71	FEB. 15	78.78	MAY 5	88.55	AUG. 5	91.88
NOV. 1	83.56H	FEB. 20	78.64	MAY 10	89.20	AUG. 10	90.58
NOV. 5	83.66	FEB. 23	78.27H	MAY 15	93.31	AUG. 15	89.55
NOV. 10	83.01	FEB. 25	78.27	MAY 20	99.85	AUG. 20	88.86
NOV. 15	82.53	FEB. 28	78.38	MAY 25	101.19	AUG. 25	88.05
NOV. 20	82.07	MAR. 5	78.24	MAY 31	98.93	AUG. 31	87.32
NOV. 23	82.23H	MAR. 9	79.61H	JUNE 5	98.99	SEP. 5	86.66
NOV. 25	82.03	MAR. 10	80.17	JUNE 10	101.89	SEP. 10	86.36
NOV. 30	81.88	MAR. 15	83.12	JUNE 15	103.18	SEP. 15	85.87
DEC. 21	80.98H	MAR. 20	82.66	JUNE 20	98.10	SEP. 20	85.50
DEC. 25	80.48	MAR. 23	85.54H	JUNE 25	95.38	SEP. 21	85.41H
DEC. 31	80.34	MAR. 25	87.43	JUNE 30	100.61	SEP. 25	85.07
JAN. 5, 1977	80.18	MAR. 31	90.17	JULY 5	104.18	SEP. 30	84.74
JAN. 10	80.07	APR. 5	88.23				

305714092255101 LOCAL WELL NUMBER: EV-495

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 1S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 90 FT, SCREENED 84-90. MP TOP OF COUPLING, 1.0 FT ABOVE LSD.

LSD 123.74 FT ABOVE MSL.

HIGHEST WATER LEVEL 51.65 BELOW LSD, AUG. 10, 1954,

LOWEST WATER LEVEL 65.58 BELOW LSD, FEB. 21, 1972.

RECORDS AVAILABLE 1953-66, 1972, 1974, 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	60.58						

GROUND-WATER LEVELS

EVANGELINE PARISH

305130092263601 LOCAL WELL NUMBER: EV-500

OWNER: U. S. GEOL. SURVEY. (SEC. 26, T. 2S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 120 FT, SCREENED 114-120. MP TOP OF 4-IN COUPLING, 0.80 FT ABOVE LSD.
 LSD 117.52 FT ABOVE MSL.
 HIGHEST WATER LEVEL 43.19 BELOW LSD, OCT. 20, 1953,
 LOWEST WATER LEVEL 49.82 BELOW LSD, FEB. 21, 1972.
 RECORDS AVAILABLE 1953-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	49.70						

304745092204501 LOCAL WELL NUMBER: EV-547

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 3S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 80 FT, SCREENED 75-80. MP TOP OF CASING, 0.62 FT ABOVE LSD.
 LSD 113.38 FT ABOVE MSL.
 HIGHEST WATER LEVEL 19.19 BELOW LSD, APR. 24, 1975,
 LOWEST WATER LEVEL 51.25 BELOW LSD, OCT. 14, 1971.
 RECORDS AVAILABLE 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	47.89	JAN. 20, 1977	47.99	MAR. 23, 1977	47.80	AUG. 25, 1977	48.27
NOV. 23	48.01	FEB. 23	47.67	MAY 25	47.35	SEP. 21	48.42
DEC. 21	48.89	MAR. 9	47.78	JULY 19	47.96		

304133092322801 LOCAL WELL NUMBER: EV-571

OWNER: BESSIE F. FUSELIER. (SEC. 23, T. 4S., R. 2W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN, REPORTED DEPTH 170 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 1.50 FT ABOVE LSD.
 LSD 62.30 FT ABOVE MSL.
 HIGHEST WATER LEVEL 31.74 BELOW LSD, MAR. 22, 1954,
 LOWEST WATER LEVEL 50.87 BELOW LSD, MAR. 9, 1977.
 RECORDS AVAILABLE 1953-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	50.87						

305643092194701 LOCAL WELL NUMBER: EV-612

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 1S., R. 1E.) JETTED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 46 FT, WELL POINT 41-46. MP TOP OF 1 1/4-IN PIPE, 1.0 FT ABOVE LSD.
 LSD 77.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 21.85 BELOW LSD, FEB. 25, 1974,
 LOWEST WATER LEVEL 25.53 BELOW LSD, FEB. 17, 1971.
 RECORDS AVAILABLE 1953-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	23.18						

305036092205801 LOCAL WELL NUMBER: EV-623

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 34, T. 2S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 96 FT, WELL POINT 93-96. MP TOP OF 1 1/4-IN CASING, 3.50 FT ABOVE LSD.
 LSD 137.20 FT ABOVE MSL.
 HIGHEST WATER LEVEL 68.14 BELOW LSD, AUG. 31, 1962,
 LOWEST WATER LEVEL 72.14 BELOW LSD, FEB. 17, 1971.
 RECORDS AVAILABLE 1958-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	69.22						

304435092184501 LOCAL WELL NUMBER: EV-665

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 4S., R. 2E.) BORED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4-IN, DEPTH 100 FT, SCREENED 95-100. MP TOP OF 1 1/4-IN PIPE, 2.20 FT ABOVE LSD.
 LSD 59.29 FT ABOVE MSL.
 HIGHEST WATER LEVEL 57.46 BELOW LSD, MAR. 6, 1968,
 LOWEST WATER LEVEL 62.95 BELOW LSD, AUG. 31, 1966.
 RECORDS AVAILABLE 1964-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	62.60						

305017092162402 LOCAL WELL NUMBER: EV-667

OWNER: U. S. GEOL. SURVEY. (SEC. 26, T. 2S., R. 2W.) BORED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 92 FT, SCREENED 88-92. MP TOP OF 1 1/4-IN PIPE, 3.0 FT ABOVE LSD.
 LSD 122.20 FT ABOVE MSL.
 HIGHEST WATER LEVEL 47.09 BELOW LSD, MAR. 8, 1965,
 LOWEST WATER LEVEL 49.67 BELOW LSD, FEB. 21, 1972.
 RECORDS AVAILABLE 1964-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	48.62						

305335092183501 LOCAL WELL NUMBER: EV-679

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 6, T. 2S., R. 2E.) AUGERED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 70 FT, SCREENED 67-70. MP TOP OF 1 1/4-IN CASING, 3.0 FT ABOVE LSD.
 LSD 46.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 0.85 ABOVE LSD, FEB. 25, 1974,
 LOWEST WATER LEVEL 1.89 BELOW LSD, FEB. 27, 1970.
 RECORDS AVAILABLE 1966-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	0.13						

305714092255101 LOCAL WELL NUMBER: EV-680

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 1S., R. 1W.) AUGERED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 89 FT, SCREENED 85-89. MP TOP OF 1 1/4-IN CASING, 3.0 FT ABOVE LSD.
 LSD 131.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 54.70 BELOW LSD, FEB. 26, 1974,
 LOWEST WATER LEVEL 57.67 BELOW LSD, FEB. 17, 1971.
 RECORDS AVAILABLE 1966-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	56.36						

305608092284101 LOCAL WELL NUMBER: EV-681

OWNER: U. S. GEOL. SURVEY. (SEC. 33, T. 1S., R. 1W.) AUGERED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 33 FT, SCREENED 30-33. MP TOP OF 1 1/4-IN CASING, 4.0 FT ABOVE LSD.
 LSD 65.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 5.15 BELOW LSD, FEB. 25, 1974,
 LOWEST WATER LEVEL 7.97 BELOW LSD, AUG. 30, 1966.
 RECORDS AVAILABLE 1966-72, 1974-75, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	5.64						

GROUND-WATER LEVELS

EVANGELINE PARISH

305049092164101 LOCAL WELL NUMBER: EV-690

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 2S., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN EVANGELINE AQUIFER OF MIO-PLIOCENE AGE, DIAM 2 IN, DEPTH 1,211 FT, SCREENED 1,201-1,211, MP TOP OF 2-IN CASING, 4.40 FT ABOVE LSD.
 LSD 50.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 3.67 ABOVE LSD, APR. 1, 1967,
 LOWEST WATER LEVEL 3.41 BELOW LSD, MAR. 9, 1977.
 RECORDS AVAILABLE 1967-69, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	3.41						

305049092164102 LOCAL WELL NUMBER: EV-691

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 2S., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 375 FT, SCREENED 365-375, MP TOP OF 2-IN CASING, 2.26 FT ABOVE LSD.
 LSD 50.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 8.65 BELOW LSD, MAR. 3, 1976,
 LOWEST WATER LEVEL 13.97 BELOW LSD, OCT. 12, 1972.
 RECORDS AVAILABLE 1967-69, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	13.71						

304640092195601 LOCAL WELL NUMBER: EV-740

OWNER: U. S. GEOL. SURVEY. (IRR. SEC. 36, T. 3S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 117 FT, SCREENED 112-117, MP TOP OF 2-IN GALV. PIPE, 3.2 FT ABOVE LSD.
 LSD 116.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 52.52 BELOW LSD, MAR. 18, 1976,
 LOWEST WATER LEVEL 54.96 BELOW LSD, AUG. 18, 1977.
 RECORDS AVAILABLE 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 19, 1977	53.60	MAR. 9, 1977	53.42	JUNE 16, 1977	54.46	AUG. 18, 1977	54.96

304617092193201 LOCAL WELL NUMBER: EV-748

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 38, T. 3S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 103 FT, SCREENED 98-103, MP TOP OF 2-IN PIPE, 2.6 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 26.29 BELOW LSD, MAR. 14, 1977,
 LOWEST WATER LEVEL 30.45 BELOW LSD, JUNE 16, 1977.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 14, 1977	26.29	JUNE 16	30.45	AUG. 18, 1977	30.03		

304317092300701 LOCAL WELL NUMBER: EV-749

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 4S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 144 FT, SCREENED 139-144, MP TOP OF 2-IN PIPE, 2.45 FT ABOVE LSD.
 LSD 63.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 41.77 BELOW LSD, MAR. 14, 1977,
 LOWEST WATER LEVEL 45.55 BELOW LSD, AUG. 18, 1977.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 14, 1977	41.77	AUG. 18	45.55				

312703092224801 LOCAL WELL NUMBER: G-127B

OWNER: U. S. GEOL. 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, 1.0 FT ABOVE LSD.
 LSD 231.75 FT ABOVE MSL.
 HIGHEST WATER LEVEL 66.88 BELOW LSD, APR. 26, 1962,
 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. 26, 1976	68.25	JAN. 31, 1977	68.59	APR. 27, 1977	68.19	JULY 27, 1977	67.88
NOV. 29	68.52	FEB. 28	68.76	MAY 31	67.96	AUG. 29	68.09
JAN. 3, 1977	68.30	MAR. 29	68.38	JUNE 28	67.83	SEP. 28	68.29

313119092254001 LOCAL WELL NUMBER: G-262

OWNER: U. S. GEOL. SURVEY. (SEC. 1, T. 6N., R. 1W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/2 IN, DEPTH 65 FT, SCREENED 62-65, MP TOP OF CASING, 3.3 FT ABOVE LSD.
 LSD 178.73 FT ABOVE MSL.
 HIGHEST WATER LEVEL 35.55 BELOW LSD, APR. 30, 1974,
 LOWEST WATER LEVEL 44.05 BELOW LSD, NOV. 15, 1971.
 RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	40.20	MAR. 11, 1977	40.12	JUNE 1, 1977	39.40	SEP. 9, 1977	40.46

313208092242501 LOCAL WELL NUMBER: G-263

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 7N., R. 1E.) BORED OBSERVATION SEMIARTESIAN WELL IN THE ALLUVIAL AQUIFER OF RECENT AGE, DIAM 1.5 IN, DEPTH 19 FT, SCREENED 16-19, MP TOP OF CASING, 16.1 FT ABOVE LSD.
 LSD 83.87 FT ABOVE MSL.
 HIGHEST WATER LEVEL 4.88 ABOVE LSD, JAN. 28, 1974,
 LOWEST WATER LEVEL 5.76 BELOW LSD, JAN. 5, 1975.
 RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	4.56	MAR. 11, 1977	3.34	JUNE 1, 1977	4.70	SEP. 7, 1977	4.92

313209092242501 LOCAL WELL NUMBER: G-278

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 7N., R. 1E.) BORED OBSERVATION WATER-TABLE WELL IN THE ALLUVIAL AQUIFER OF RECENT AGE, DIAM 3 IN, DEPTH 11 FT, SCREENED 8-11, MP TOP OF BUSHING, 24.0 FT ABOVE LSD.
 LSD 77.34 FT ABOVE MSL.
 HIGHEST WATER LEVEL 10.94 ABOVE LSD, JAN. 28, 1974,
 LOWEST WATER LEVEL 1.51 ABOVE LSD, OCT. 4, 1972.
 RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	+1.85	MAR. 11, 1977	+2.39	JUNE 1, 1977	+1.73	SEP. 7, 1977	+1.70

313347092261801 LOCAL WELL NUMBER: G-279

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 7N., R. 1W.) BORED OBSERVATION WATER-TABLE WELL IN THE ALLUVIAL AQUIFER OF RECENT AGE, DIAM 1.25 IN, DEPTH 5 FT, SCREENED 2-5, MP TOP OF CASING, 15.33 FT ABOVE LSD.
 LSD 97.93 FT ABOVE MSL.
 HIGHEST WATER LEVEL 11.70 ABOVE LSD, MAR. 16, 1973,
 LOWEST WATER LEVEL 1.48 ABOVE LSD, JUNE 30, 1972.
 RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	+2.01	MAR. 11, 1977	+2.63	JUNE 1, 1977	+1.86	SEP. 7, 1977	+1.89

See footnotes at end of table.

GROUND-WATER LEVELS

GRANT PARISH

313202092242701 LOCAL WELL NUMBER: G-280

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 7N., R. 1E.) BORED OBSERVATION ARTESIAN WELL IN THE ALLUVIAL AQUIFER OF RECENT AGE, DIAM 4 IN, DEPTH 10 FT, SCREENED 7-10. MP TOP OF COLLAR, 5.50 FT ABOVE LSD.

LSD 85.04 FT ABOVE MSL.

HIGHEST WATER LEVEL 2.09 ABOVE LSD, MAY 5, 1975,

LOWEST WATER LEVEL 5.33 BELOW LSD, NOV. 15, 1971.

RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	2.67	MAR. 11, 1977	1.54	JUNE 1, 1977	3.11	SEP. 7, 1977	3.51

313346092262001 LOCAL WELL NUMBER: G-281

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 7N., R. 1W.) BORED OBSERVATION SEMIARTESIAN WELL IN THE ALLUVIAL AQUIFER OF RECENT AGE, DIAM 4 IN, DEPTH 16 FT, SCREENED 11-16. MP TOP OF COLLAR, 3.60 FT ABOVE LSD.

LSD 108.54 FT ABOVE MSL.

HIGHEST WATER LEVEL 2.34 ABOVE LSD, MAY 6, 1975,

LOWEST WATER LEVEL 9.77 BELOW LSD, SEP. 13, 1976.

RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	7.50	MAR. 11, 1977	4.44	JUNE 1, 1977	7.50	SEP. 6, 1977	7.40

313345092262401 LOCAL WELL NUMBER: G-282

OWNER: U. S. GEOL. SURVEY. (SEC. 26, T. 7N., R. 1W.) BORED OBSERVATION SEMIARTESIAN WELL IN THE ALLUVIAL AQUIFER OF RECENT AGE, DIAM 4 IN, DEPTH 19 FT, SCREENED 16-19. MP TOP OF COLLAR, 3.20 FT ABOVE LSD.

LSD 109.96 FT ABOVE MSL.

HIGHEST WATER LEVEL 0.21 BELOW LSD, MAR. 16, 1973,

LOWEST WATER LEVEL 11.86 BELOW LSD, NOV. 13, 1970.

RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 10, 1976	8.23	MAR. 11, 1977	3.12	JUNE 1, 1977	6.48	SEP. 7, 1977	8.22

314200092465101 LOCAL WELL NUMBER: G-305

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 8N., R. 4W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 40 FT, SCREENED 37-40. MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 210.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 10.65 BELOW LSD, JAN. 30, 1974,

LOWEST WATER LEVEL 18.82 BELOW LSD, OCT. 27, 1971.

RECORDS AVAILABLE 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 20, 1976	17.42	MAR. 9, 1977	15.72	JUNE 17, 1977	15.07	SEP. 8, 1977	17.42

313156092324101 LOCAL WELL NUMBER: G-314

OWNER: U. S. GEOL. 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, 4.0 FT ABOVE LSD.

LSD 245.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 47.65 BELOW LSD, JULY 7, 1975,

LOWEST WATER LEVEL 59.62 BELOW LSD, NOV. 15, 1971.

RECORDS AVAILABLE 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 20, 1976	54.08	MAR. 9, 1977	54.86	JUNE 1, 1977	53.71	SEP. 8, 1977	54.38

GRANT PARISH

313207092242501 LOCAL WELL NUMBER: G-330

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 7N., R. 1E.) BORED OBSERVATION WATER-TABLE WELL IN THE ALLUVIAL AQUIFER OF RECENT AGE, DIAM 4 IN, DEPTH 15 FT, SCREENED 10-15. MP TOP OF CASING, 5.70 FT ABOVE LSD.

LSD 85.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 1.98 BELOW LSD, MAR. 16, 1973,

LOWEST WATER LEVEL 9.11 BELOW LSD, JULY 9, 1974.

RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 7, 1977	6.33	MAR. 11, 1977	4.66	JUNE 1, 1977	7.35	SEP. 7, 1977	7.41

JACKSON PARISH

321709092452401 LOCAL WELL NUMBER: JA-49

OWNER: CONTINENTAL CAN CO. (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 INTERVAL UNKNOWN, MP TOP OF RECORDER SHELTER SHELVE, 2.33 FT ABOVE LSD.

LSD 160.00 FT ABOVE MSL.

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. 5, 1976	144.60	FEB. 16, 1977	149.24H	MAY 5, 1977	143.50	JULY 15, 1977	143.60
OCT. 10	146.55	FEB. 20	149.10	MAY 10	143.45	JULY 20	145.90
OCT. 15	148.20	FEB. 23	149.11H	MAY 15	143.45	JULY 23	150.40J
OCT. 20	148.65	FEB. 25	149.20	MAY 20	143.50	JULY 25	149.70
OCT. 22	148.75J	FEB. 28	149.35	MAY 25	143.40	JULY 31	149.90
OCT. 25	141.70	MAR. 1	149.40J	MAY 29	143.35J	AUG. 1	149.97H
OCT. 31	138.70	MAR. 5	149.20	MAY 31	143.50	AUG. 5	150.25
NOV. 5	143.20	MAR. 10	149.25	JUNE 3	143.39J	AUG. 10	150.70
NOV. 10	146.40	MAR. 15	148.90	JUNE 5	143.47	AUG. 15	151.40
NOV. 15	147.75	MAR. 20	147.80	JUNE 10	143.64	AUG. 17	151.50J
DEC. 10	149.46H	MAR. 25	146.80	JUNE 14	147.31J	AUG. 20	149.20
DEC. 15	148.50	MAR. 31	146.00	JUNE 15	146.10	AUG. 25	150.40
DEC. 20	148.50	APR. 4	145.31H	JUNE 20	144.08	AUG. 31	150.50
DEC. 25	144.15	APR. 5	145.50	JUNE 25	139.74	SEP. 5	149.20
DEC. 31	139.00	APR. 6	145.51J	JUNE 26	139.43J	SEP. 6	145.80J
JAN. 5, 1977	137.60	APR. 10	145.10	JUNE 30	144.41	SEP. 10	150.25
JAN. 10	136.90	APR. 15	144.75	JULY 1	144.90H	SEP. 15	150.50
JAN. 12	136.85J	APR. 20	144.30	JULY 5	142.20	SEP. 20	150.55
JAN. 15	137.00	APR. 25	144.05	JULY 10	140.00	SEP. 25	150.30
JAN. 20	144.10	APR. 30	143.90	JULY 13	139.50J	SEP. 30	150.00

321249092190402 LOCAL WELL NUMBER: JA-101B

OWNER: CHATHAM GIRL SCOUT CAMP. (SEC. 12, T. 14N., R. 1E.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 4 IN, DEPTH 432 FT, SCREENED 412-432. MP HOLE IN TOP OF SANITARY SEAL, 1.0 FT ABOVE LSD.

LSD 195.30 FT ABOVE MSL.

HIGHEST WATER LEVEL 151.70 BELOW LSD, MAY 11, 1966,

LOWEST WATER LEVEL 174.73 BELOW LSD, JUNE 13, 1967.

RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 27, 1976	160.72	MAR. 28, 1977	160.42	MAY 31, 1977	160.61	AUG. 29, 1977	160.87
NOV. 29	160.74	APR. 27	161.57	JUNE 28	160.64	SEP. 28	160.90
FEB. 28, 1977	160.45	MAY 4	160.35	JULY 28	160.80		

321128092440801 LOCAL WELL NUMBER: JA-127

OWNER: CONTINENTAL CAN CO. (SEC. 13, T. 14N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 4 IN, DEPTH 367 FT, SCREENED 357-367. MP TOP OF CASING, 1.8 FT ABOVE LSD.

LSD 242.15 FT ABOVE MSL.

HIGHEST WATER LEVEL 152.05 BELOW LSD, JULY 13, 1966,

LOWEST WATER LEVEL 162.67 BELOW LSD, JULY 25, 1973.

RECORDS AVAILABLE 1966, 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 2, 1977	157.45	MAY 5	157.43	JUNE 1, 1977	158.04		

See footnotes at end of table.

GROUND-WATER LEVELS

JACKSON PARISH

321100092441201 LOCAL WELL NUMBER: JA-129

OWNER: CONTINENTAL CAN CO. (SEC. 24, T. 14N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 4 IN, DEPTH 598 FT, SCREENED 588-598. MP TOP OF 3/4 IN COLLAR, 1.25 FT ABOVE LSD.

LSD 244.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 155.00 BELOW LSD, JULY 13, 1966,

LOWEST WATER LEVEL 162.77 BELOW LSD, SEP. 13, 1972.

RECORDS AVAILABLE 1966, 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 1, 1977	160.31						

322422092411601 LOCAL WELL NUMBER: JA-141

OWNER: HENRY J. DAVIS. (SEC. 4, T. 16N., R. 3W.) DRILLED DOMESTIC ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 4 IN, DEPTH 260 FT, SCREENED 240-260. MP TOP OF SANITARY SEAL, 1.0 FT ABOVE LSD.

LSD 200.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 151.16 BELOW LSD, JAN. 19, 1971,

LOWEST WATER LEVEL 160.78 BELOW LSD, MAR. 15, 1977.

RECORDS AVAILABLE 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 16, 1976	156.20	MAR. 15, 1977	160.78	JUNE 1, 1977	159.13	SEP. 2, 1977	159.53

322357092341701 LOCAL WELL NUMBER: JA-147

OWNER: U. S. GEOL. 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, 3.0 FT ABOVE LSD.

LSD 220.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 209.06 BELOW LSD, MAY 14, 1975,

LOWEST WATER LEVEL 213.15 BELOW LSD, SEP. 2, 1977.

RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 16, 1976	212.00	MAY 2, 1977	211.66	JUNE 1, 1977	212.12	SEP. 2, 1977	213.15

321338092345801 LOCAL WELL NUMBER: JA-148

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 14N., R. 2W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 578 FT, SCREENED 568-578. MP TOP OF BUSHING, 3.3 FT ABOVE LSD.

LSD 245.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 206.58 BELOW LSD, APR. 7, 1976,

LOWEST WATER LEVEL 209.60 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	208.90	APR. 1, 1977	208.18	MAY 17, 1977	208.64	SEP. 1, 1977	209.45
JAN. 7, 1977	208.65	MAY 2	208.28	JUNE 24	209.01	SEP. 6	209.60
MAR. 16	208.26						

322433092412101 LOCAL WELL NUMBER: JA-149

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 16N., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 478 FT, SCREENED 468-478. MP TOP OF CASING, 3.2 FT ABOVE LSD.

LSD 195.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 154.78 BELOW LSD, MAY 13, 1975,

LOWEST WATER LEVEL 158.35 BELOW LSD, SEP. 2, 1977.

RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 19, 1976	157.12	MAR. 15, 1977	156.82	MAY 4, 1977	156.85	JULY 6, 1977	157.68
JAN. 7, 1977	156.79	APR. 1	156.74	JUNE 1	157.20	SEP. 2	158.35

314153092075201 LOCAL WELL NUMBER: LA-157

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 8N., R. 3E.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/2 IN, DEPTH 88 FT, SCREENED 85-88. MP TOP OF CASING, 3.5 FT ABOVE LSD.

LSD 211.90 FT ABOVE MSL.

HIGHEST WATER LEVEL 53.33 BELOW LSD, JUNE 29, 1976.

LOWEST WATER LEVEL 59.27 BELOW LSD, OCT. 11, 1972.

RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 9, 1976	55.86	MAR. 10, 1977	56.72	JUNE 3, 1977	55.10	SEP. 8, 1977	56.50

313610092052601 LOCAL WELL NUMBER: LA-215

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 7N., R. 4E.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 88 FT, SCREENED 83-88. MP TOP OF CASING, 2.5 FT ABOVE LSD.

LSD 85.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 45.59 BELOW LSD, JULY 16, 1975.

LOWEST WATER LEVEL 57.84 BELOW LSD, NOV. 10, 1972.

RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 9, 1976	54.60	MAR. 10, 1977	52.95	JUNE 3, 1977	52.03	SEP. 8, 1977	54.86

313610092052602 LOCAL WELL NUMBER: LA-217

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 7N., R. 4E.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 60 FT, SCREENED 57-60. MP TOP OF CASING, 2.2 FT ABOVE LSD.

LSD 85.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 37.23 BELOW LSD, JULY 16, 1975.

LOWEST WATER LEVEL 49.33 BELOW LSD, FEB. 21, 1973.

RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 9, 1976	39.23	MAR. 10, 1977	39.99	JUNE 3, 1977	39.24	SEP. 8, 1977	40.42

313610092052603 LOCAL WELL NUMBER: LA-218

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 7N., R. 4E.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 74 FT, SCREENED 71-74. MP TOP OF CASING, 2.2 FT ABOVE LSD.

LSD 85.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 45.68 BELOW LSD, JULY 16, 1975.

LOWEST WATER LEVEL 54.92 BELOW LSD, SEP. 8, 1977.

RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 9, 1976	54.64	MAR. 10, 1977	53.00	JUNE 3, 1977	51.98	SEP. 8, 1977	54.92

GROUND-WATER LEVELS

LINCOLN PARISH

323133092385901 LOCAL WELL NUMBER: L-25

OWNER: LA. TECH UNIVERSITY. (SEC. 23, T. 18N., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 12 IN, DEPTH 680 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, .60 FT ABOVE LSD.

LSD 300.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 250.25 BELOW LSD, AUG. 8, 1961.

LOWEST WATER LEVEL 326.55 BELOW LSD, JULY 7, 1977.

RECORDS AVAILABLE 1961, 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	318.80H	DEC. 31, 1976	308.50	MAR. 31, 1977	313.20	JUNE 30, 1977	324.12
OCT. 4	322.02J	JAN. 5, 1977	314.00	APR. 5	312.85	JULY 5	321.35
OCT. 5	320.35	JAN. 10	311.25	APR. 10	311.00	JULY 6	323.80H
OCT. 10	315.60	JAN. 12	311.86H	APR. 11	307.60J	JULY 7	326.55J
OCT. 15	318.20	JAN. 15	311.20	APR. 15	311.52H	JULY 10	319.45
OCT. 20	315.65	JAN. 16	308.85J	APR. 20	310.98H	JULY 15	323.60
OCT. 25	313.90	JAN. 20	313.55	APR. 21	306.45J	JULY 20	323.65
OCT. 31	313.60	JAN. 25	313.05	APR. 25	311.30	JULY 25	322.65
NOV. 5	314.02	JAN. 31	312.95	APR. 30	311.15	JULY 31	315.20
NOV. 7	309.20J	FEB. 5	312.00	MAY 5	312.58	AUG. 5	319.66H
NOV. 10	313.85	FEB. 10	314.00	MAY 10	312.18	AUG. 10	323.50J
NOV. 15	314.30	FEB. 15	313.50	MAY 15	313.05	AUG. 15	320.85
NOV. 19	313.01H	FEB. 20	311.50	MAY 20	314.52	AUG. 20	315.25
NOV. 20	309.54	FEB. 24	315.70J	MAY 25	317.49	AUG. 25	317.05
NOV. 25	309.40	FEB. 28	313.75	MAY 31	318.05	AUG. 31	318.10
NOV. 30	311.91	MAR. 5	312.25	JUNE 2	319.42J	SEP. 5	313.40J
DEC. 5	311.96	MAR. 10	309.48	JUNE 5	316.30	SEP. 10	316.15
DEC. 10	311.70	MAR. 14	306.90J	JUNE 8	320.64H	SEP. 15	317.70
DEC. 15	312.20	MAR. 15	311.80	JUNE 10	324.88J	SEP. 20	318.65
DEC. 20	308.75	MAR. 20	310.30	JUNE 15	319.20	SEP. 25	315.85
DEC. 25	305.40	MAR. 22	314.65J	JUNE 20	318.65	SEP. 30	321.00
DEC. 28	304.65J	MAR. 25	313.40	JUNE 25	319.85		

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 10-6 IN, DEPTH 686 FT, SCREENED 633-686. MP TOP OF 3/4-IN HOLE IN PLATE, 2.0 FT ABOVE LSD.

LSD 155.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 95.20 BELOW LSD, APR. 22, 1950.

LOWEST WATER LEVEL 149.52 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1950, 1962, 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 3, 1977	147.57	SEP. 6	149.52				

323458092275101 LOCAL WELL NUMBER: L-68

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 18N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND, DIAM 2 IN, DEPTH 770 FT, SCREENED 760-770. MP TOP OF 2 X 3/4-IN BUSHING, 5.14 FT ABOVE LSD.

LSD 180.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 185.04 BELOW LSD, MAR. 2, 1970.

LOWEST WATER LEVEL 206.44 BELOW LSD, SEP. 2, 1977.

RECORDS AVAILABLE 1968-71, 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 25, 1977	204.78	MAY 4	204.82	SEP. 2, 1977	206.44		

323013092482001 LOCAL WELL NUMBER: L-113

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 18N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 4 IN, DEPTH 750 FT, SCREENED 740-750. MP TOP OF CASING, 1.3 FT ABOVE LSD.

LSD 355.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 266.50 BELOW LSD, AUG. 11, 1969.

LOWEST WATER LEVEL 290.12 BELOW LSD, MAY 14, 1975.

RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 16, 1977	285.77	MAY 4	285.31	SEP. 1, 1977	288.68		

See footnotes at end of table.

LINCOLN PARISH

323105092374802 LOCAL WELL NUMBER: L-123

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 18N., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN THE COOK MOUNTAIN FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 180 FT, SCREENED 170-180. MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 330.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 126.97 BELOW LSD, SEP. 4, 1974,

LOWEST WATER LEVEL 129.55 BELOW LSD, OCT. 7, 1970.

RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 2, 1977	127.15						

MADISON PARISH

322245091073001 LOCAL WELL NUMBER: MA-10

OWNER: ILLINOIS CENTRAL RAILROAD CO. (SEC. 10, T. 16N., R. 13E.) DRILLED UNUSED SEMIARTESIAN WELL IN THE MISS. RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN, DEPTH 85 FT, SCREENED 75-85. MP TOP OF CASING, .5 FT ABOVE LSD.

LSD 80.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 3.40 BELOW LSD, MAY 4, 1958,

LOWEST WATER LEVEL 17.37 BELOW LSD, AUG. 12, 1957.

RECORDS AVAILABLE 1953-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	11.06	MAR. 24, 1977	7.80	SEP. 2, 1977	11.34		

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 FLOOR OF RECORDER SHELTER, 1.6 FT ABOVE LSD.

LSD 117.44 FT ABOVE MSL.

HIGHEST WATER LEVEL 143.85 BELOW LSD, DEC. 22, 1958,

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. 1, 1976	178.64H	DEC. 31, 1976	169.07	MAR. 20, 1977	193.88	JUNE 15, 1977	194.76
OCT. 5	182.28	JAN. 5, 1977	188.87	MAR. 25	194.71	JUNE 16	199.18J
OCT. 10	186.68	JAN. 10	190.30	MAR. 29	197.36J	JUNE 20	195.89
OCT. 11	195.95J	JAN. 13	189.90H	MAR. 31	195.57	JUNE 25	196.17
OCT. 15	190.69	JAN. 15	193.46	APR. 5	189.59	JUNE 30	179.55
OCT. 20	187.00	JAN. 17	197.12J	APR. 10	191.52	JULY 3	175.51J
OCT. 25	191.21	JAN. 20	192.59	APR. 15	186.44	JULY 5	175.88
OCT. 31	191.62	JAN. 25	185.46	APR. 19	192.66H	JULY 7	193.53H
NOV. 5	189.69	JAN. 28	180.62	APR. 20	193.18	JULY 8	192.99J
NOV. 10	188.90	JAN. 31	188.11	APR. 25	194.70	JULY 10	197.17
NOV. 15	188.83	FEB. 5	187.72	APR. 30	195.38	JULY 15	198.66
NOV. 16	188.80H	FEB. 10	191.27	MAY 2	198.29J	JULY 20	195.96
NOV. 20	192.37J	FEB. 15	192.65	MAY 5	192.03	JULY 25	197.55
NOV. 25	179.02	FEB. 18	192.25H	MAY 10	192.37	JULY 31	199.43
NOV. 30	185.38	FEB. 20	193.60	MAY 15	194.53	AUG. 4	201.18J
DEC. 5	188.28	FEB. 25	187.83	MAY 20	195.93	AUG. 5	200.23
DEC. 10	189.85	FEB. 28	193.08J	MAY 23	176.51J	AUG. 10	197.50
DEC. 15	188.61	MAR. 5	194.36	MAY 25	182.72H	AUG. 15	197.49
DEC. 20	187.39	MAR. 8	197.20J	MAY 31	190.42	AUG. 16	194.97H
DEC. 25	167.32	MAR. 10	191.18	JUNE 5	194.63	SEP. 30	198.62H
DEC. 28	162.02J	MAR. 15	193.86H	JUNE 10	196.90		

See footnotes at end of table.

GROUND-WATER LEVELS

MOREHOUSE PARISH

324704091543801 LOCAL WELL NUMBER: MO-15

OWNER: INTERNATIONAL PAPER CO. (SEC. 25, T. 21N., R. 5E.) DRILLED UNUSED WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 26-16 IN, DEPTH 105 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF STEEL BASE PLATE, 1.0 FT ABOVE LSD.

LSD 143.72 FT ABOVE MSL.

HIGHEST WATER LEVEL 74.83 BELOW LSD, APR. 29, 1953,

LOWEST WATER LEVEL 99.55 BELOW LSD, DEC. 17, 1974.

RECORDS AVAILABLE 1945-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	91.61	MAR. 15, 1977	90.68	MAY 25, 1977	91.07	SEP. 6, 1977	90.60
JAN. 13, 1977	91.00	APR. 19	90.76	JULY 7	90.94		

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, 7.9 FT ABOVE LSD.

LSD 73.51 FT ABOVE MSL.

HIGHEST WATER LEVEL 1.59 BELOW LSD, DEC. 19, 1961,

LOWEST WATER LEVEL 14.05 BELOW LSD, SEP. 21, 1964.

RECORDS AVAILABLE 1953-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 6, 1977	11.80						

325925091513001 LOCAL WELL NUMBER: MO-283

OWNER: GEORGIA PACIFIC CORP. (SEC. 9, T. 23N., R. 6E.) DRILLED UNUSED WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 4 1/2 IN, DEPTH 135 FT, SCREENED 125-135. MP 1-IN HOLE IN TOP OF WELL CAP, 3.9 FT ABOVE LSD.

LSD 163.26 FT ABOVE MSL.

HIGHEST WATER LEVEL 71.39 BELOW LSD, FEB. 23, 1961,

LOWEST WATER LEVEL 74.68 BELOW LSD, NOV. 12, 1974.

RECORDS AVAILABLE 1960-63, 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 7, 1977	74.29						

325925091392201 LOCAL WELL NUMBER: MO-303

OWNER: U. S. GEOL. SURVEY. (SEC. 9, T. 23N., R. 8E.) DRILLED OBSERVATION WATER-TABLE WELL IN THE ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 75 FT, SCREENED 72-75. MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 106.17 FT ABOVE MSL.

HIGHEST WATER LEVEL 7.32 BELOW LSD, JUNE 10, 1975,

LOWEST WATER LEVEL 19.88 BELOW LSD, NOV. 21, 1967.

RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	17.24	MAR. 14, 1977	16.34	JULY 8, 1977	17.71	SEP. 7, 1977	18.26
JAN. 14, 1977	17.60	MAY 25	16.48				

324622091511301 LOCAL WELL NUMBER: MO-334

OWNER: U. S. GEOL. SURVEY. (SEC. 28, T. 21N., R. 6E.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 100 FT, SCREENED 97-100. MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 147.58 FT ABOVE MSL.

HIGHEST WATER LEVEL 69.45 BELOW LSD, FEB. 20, 1968,

LOWEST WATER LEVEL 72.00 BELOW LSD, NOV. 14, 1974.

RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 7, 1977	71.66						

324753091471201 LOCAL WELL NUMBER: MO-342

OWNER: U. S. GEOL. 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 CASING, 3.7 FT ABOVE LSD.

LSD 88.34 FT ABOVE MSL.

HIGHEST WATER LEVEL 91.63 BELOW LSD, JULY 31, 1968,

LOWEST WATER LEVEL 100.26 BELOW LSD, SEP. 7, 1977.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 3, 1977	97.91	SEP. 7	100.26				

324753091471202 LOCAL WELL NUMBER: MO-343

OWNER: U. S. GEOL. SURVEY. (SEC. 19, T. 21N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FORMATION OF EOCENE AGE, DIAM 2 IN, DEPTH 176 FT, SCREENED 166-176. MP TOP OF CASING, 4.0 FT ABOVE LSD.

LSD 88.41 FT ABOVE MSL.

HIGHEST WATER LEVEL 0.50 BELOW LSD, MAY 13, 1975,

LOWEST WATER LEVEL 11.16 BELOW LSD, SEP. 7, 1977.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 7, 1977	11.16						

325810091384001 LOCAL WELL NUMBER: MO-344

OWNER: U. S. GEOL. SURVEY. (SEC. 21, T. 23N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FORMATION OF EOCENE AGE, DIAM 2 IN, DEPTH 258 FT, SCREENED 248-258. MP TOP OF CASING, 3.6 FT ABOVE LSD.

LSD 106.35 FT ABOVE MSL.

HIGHEST WATER LEVEL 14.96 BELOW LSD, APR. 30, 1969,

LOWEST WATER LEVEL 26.62 BELOW LSD, AUG. 22, 1972.

RECORDS AVAILABLE 1968-70, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 7, 1977	23.97						

325526091530501 LOCAL WELL NUMBER: MO-345

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 22N., R. 6E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 786 FT, SCREENED 776-786. MP TOP OF CASING, 4.9 FT ABOVE LSD.

LSD 113.65 FT ABOVE MSL.

HIGHEST WATER LEVEL 100.76 BELOW LSD, JULY 16, 1968,

LOWEST WATER LEVEL 109.12 BELOW LSD, SEP. 7, 1977.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 3, 1977	107.64	SEP. 7	109.12				

325810091384002 LOCAL WELL NUMBER: MO-346

OWNER: U. S. GEOL. SURVEY. (SEC. 21, T. 23N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FORMATION OF EOCENE AGE, DIAM 2 IN, DEPTH 167 FT, SCREENED 157-167. MP TOP OF CASING, 3.6 FT ABOVE LSD.

LSD 106.57 FT ABOVE MSL.

HIGHEST WATER LEVEL 15.47 BELOW LSD, APR. 30, 1969,

LOWEST WATER LEVEL 30.74 BELOW LSD, AUG. 22, 1972.

RECORDS AVAILABLE 1968-70, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 7, 1977	24.48						

MOREHOUSE PARISH

324352091531001 LOCAL WELL NUMBER: MO-347

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 20N., R. 6E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 833 FT, SCREENED 823-833. MP TOP OF BUSHING, 3.67 FT ABOVE LSD.

LSD 142.27 FT ABOVE MSL.

HIGHEST WATER LEVEL 181.30 BELOW LSD, MAY 13, 1975,

LOWEST WATER LEVEL 191.59 BELOW LSD, SEP. 11, 1972.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 3, 1977	187.13	SEP. 6	186.79				

325518091403001 LOCAL WELL NUMBER: MO-348

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 22N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FORMATION OF EOCENE AGE, DIAM 2 IN, DEPTH 311 FT, SCREENED 291-311. MP TOP OF CASING, 4.2 FT ABOVE LSD.

LSD 98.88 FT ABOVE MSL.

HIGHEST WATER LEVEL 9.63 BELOW LSD, MAR. 26, 1969,

LOWEST WATER LEVEL 16.62 BELOW LSD, SEP. 7, 1977.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 7, 1977	16.62						

324352091531002 LOCAL WELL NUMBER: MO-349

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 20N., R. 6E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FORMATION OF EOCENE AGE, DIAM 2 IN, DEPTH 217 FT, SCREENED 197-217. MP TOP OF BUSHING, 3.93 FT ABOVE LSD.

LSD 142.46 FT ABOVE MSL.

HIGHEST WATER LEVEL 67.45 BELOW LSD, JULY 10, 1969,

LOWEST WATER LEVEL 71.09 BELOW LSD, SEP. 8, 1975.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 6, 1977	69.20						

325707091574701 LOCAL WELL NUMBER: MO-350

OWNER: U. S. GEOL. SURVEY. (SEC. 28, T. 23N., R. 5E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 740 FT, SCREENED 730-740. MP TOP OF CASING, 3.4 FT ABOVE LSD.

LSD 112.08 FT ABOVE MSL.

HIGHEST WATER LEVEL 95.50 BELOW LSD, MAR. 10, 1969,

LOWEST WATER LEVEL 104.56 BELOW LSD, SEP. 7, 1977.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 3, 1977	102.74	SEP. 7	104.56				

324352091531003 LOCAL WELL NUMBER: MO-351

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 20N., R. 6E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COOK MOUNTAIN FORMATION OF EOCENE AGE, DIAM 2 IN, DEPTH 312 FT, SCREENED 292-312. MP TOP OF BUSHING, 3.71 FT ABOVE LSD.

LSD 142.23 FT ABOVE MSL.

HIGHEST WATER LEVEL 67.18 BELOW LSD, SEP. 6, 1977,

LOWEST WATER LEVEL 70.69 BELOW LSD, SEP. 11, 1972.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 6, 1977	67.18						

NATCHITOCHES PARISH

313918093023101 LOCAL WELL NUMBER: NA-284

OWNER: U. S. GEOL. SURVEY. (SEC. 42, T. 8N., R. 7W.) BORED OBSERVATION ARTESIAN WELL IN THE RED RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 72 FT, SCREENED 69-72. MP TOP OF CASING, 1.6 FT ABOVE LSD.
 LSD 102.59 FT ABOVE MSL.
 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. 7, 1976	9.00G	FEB. 9, 1977	4.50G	MAY 6, 1977	4.60G	AUG. 2, 1977	7.20G
NOV. 10	9.70G	MAR. 7	3.80G	JUNE 6	7.16	SEP. 12	6.28
NOV. 31	8.10G	MAR. 14	3.48	JUNE 17	5.10G	SEP. 15	8.60G
JAN. 10, 1977	3.90G	APR. 18	5.20G	JULY 18	8.00G		

OUACHITA PARISH

323837092021702 LOCAL WELL NUMBER: OU-24

OWNER: SOUTHERN CARBON CO. (SEC. 37, T. 19N., R. 4E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 6 IN, DEPTH 688 FT, SCREENED 540-688. MP TOP INSIDE EDGE OF 1/2-IN NIPPLE, 5.27 FT ABOVE LSD. OU-24 REPLACES OU-23.
 LSD 85.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 119.70 BELOW LSD, MAR. 17, 1964.
 LOWEST WATER LEVEL 132.29 BELOW LSD, SEP. 6, 1977.
 RECORDS AVAILABLE 1964-70, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 17, 1977	128.52	MAY 4	128.61	SEP. 6, 1977	132.29		

322901092091501 LOCAL WELL NUMBER: OU-77

OWNER: OLINKRAFT, INC. (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, 2.35 FT ABOVE LSD.
 LSD 75.90 FT ABOVE MSL.
 HIGHEST WATER LEVEL 168.82 BELOW LSD, JULY 7, 1952.
 LOWEST WATER LEVEL 268.52 BELOW LSD, FEB. 24, 1954.
 RECORDS AVAILABLE 1946-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	241.05H	DEC. 29, 1976	199.61J	MAR. 20, 1977	251.09	JULY 16, 1977	260.84J
OCT. 5	238.59	DEC. 31	214.38	MAR. 22	251.72J	JULY 20	258.03
OCT. 10	251.33	JAN. 5, 1977	223.18	MAR. 25	249.67	JULY 25	251.72
OCT. 15	251.71	JAN. 10	240.86	MAR. 30	245.01J	JULY 30	239.08J
OCT. 20	255.49	JAN. 15	243.94	MAR. 31	250.28	JULY 31	243.86
OCT. 21	257.01J	JAN. 17	243.57H	APR. 1	248.08H	AUG. 2	244.72H
OCT. 25	245.30	JAN. 18	237.08J	MAY 17	249.96H	AUG. 5	245.30
OCT. 31	243.77	JAN. 20	243.71	MAY 20	249.14	AUG. 10	246.34
NOV. 5	251.34	JAN. 25	243.36	MAY 25	253.69	AUG. 15	253.33
NOV. 10	243.25	JAN. 31	244.98	MAY 31	254.38	AUG. 20	251.93
NOV. 15	252.44	FEB. 5	246.53	JUNE 5	255.84	AUG. 25	252.10
NOV. 18	252.04H	FEB. 10	248.69	JUNE 10	257.18	AUG. 31	249.99
NOV. 20	253.62	FEB. 15	252.32	JUNE 15	256.41	SEP. 5	241.90
NOV. 21	254.20J	FEB. 19	254.44J	JUNE 20	254.99	SEP. 6	234.36J
NOV. 25	252.97	FEB. 20	250.02	JUNE 22	258.46J	SEP. 10	247.34
NOV. 30	241.20	FEB. 25	248.34	JUNE 24	256.80H	SEP. 15	257.63
DEC. 5	244.50	FEB. 28	249.89	JUNE 25	258.42	SEP. 20	253.80
DEC. 10	246.07	MAR. 3	244.23J	JUNE 30	257.61	SEP. 25	257.48
DEC. 15	240.10	MAR. 5	248.41	JULY 5	257.25	SEP. 26	259.38J
DEC. 20	244.99	MAR. 10	252.77	JULY 10	258.19	SEP. 30	255.00
DEC. 25	202.10	MAR. 15	250.56H	JULY 15	260.28		

See footnotes at end of table.

GROUND-WATER LEVELS

OUACHITA PARISH

322649092063101 LOCAL WELL NUMBER: OU-88

OWNER: FRED PETERS. (SEC. 24, T. 17N., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 6 TO 4 IN, DEPTH 401 FT, SCREENED 335-401. MP TOP OF CASING, 2.40 FT ABOVE LSD.
 LSD 75.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 42.83 BELOW LSD, JAN. 17, 1946.
 LOWEST WATER LEVEL 103.28 BELOW LSD, SEP. 10, 1976.
 RECORDS AVAILABLE 1946-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	96.84	MAY 2, 1977	92.65	MAY 17, 1977	93.06	SEP. 1, 1977	92.90
MAR. 17, 1977	93.96						

323046092035701 LOCAL WELL NUMBER: OU-96

OWNER: CITY OF MONROE. (IRREG. SEC. 38, T. 18N., R. 4E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 12 IN, DEPTH 364 FT, SCREENED 294-364. MP TOP OF BREATHER HOLE IN PUMP BASE, 3.00 FT ABOVE LSD.
 LSD 74.06 FT ABOVE MSL.
 HIGHEST WATER LEVEL 65.04 BELOW LSD, MAR. 5, 1946.
 LOWEST WATER LEVEL 133.89 BELOW LSD, JULY 18, 1975.
 RECORDS AVAILABLE 1946, 1948-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	128.46	MAR. 15, 1977	128.92	MAY 4, 1977	128.82	JUNE 24, 1977	130.65
JAN. 17, 1977	126.98	APR. 1	127.38	MAY 17	128.94	SEP. 1	132.63

323136091592801 LOCAL WELL NUMBER: OU-151

OWNER: U. S. CORPS OF ENGINEERS. (SEC. 19, T. 18N., R. 5E.) DRILLED OBSERVATION SEMIARTESIAN WELL IN THE OUACHITA ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN, DEPTH 68 FT, SCREENED 58-68. MP TOP OF 3X2-IN REDUCER, 4.8 FT ABOVE LSD.
 LSD 72.42 FT ABOVE MSL.
 HIGHEST WATER LEVEL 3.77 BELOW LSD, MAR. 19, 1975.
 LOWEST WATER LEVEL 23.63 BELOW LSD, SEP. 22, 1954.
 RECORDS AVAILABLE 1953-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	15.39	MAR. 15, 1977	9.08	MAY 18, 1977	9.47	SEP. 1, 1977	15.20
JAN. 17, 1977	10.16	APR. 1	9.12	JUNE 24	12.25		

321653092015601 LOCAL WELL NUMBER: OU-241

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 15N., R. 4E.) BORED OBSERVATION SEMIARTESIAN WELL IN THE OUACHITA RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 70 FT, SCREENED 67-70. MP TOP OF CASING, 4.8 FT ABOVE LSD.
 LSD 61.52 FT ABOVE MSL.
 HIGHEST WATER LEVEL 12.78 BELOW LSD, JAN. 17, 1968.
 LOWEST WATER LEVEL 25.92 BELOW LSD, NOV. 20, 1963.
 RECORDS AVAILABLE 1963-70, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 1, 1977	21.95						

321713092034401 LOCAL WELL NUMBER: OU-243

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 15N., R. 4E.) BORED OBSERVATION SEMIARTESIAN WELL IN THE OUACHITA RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 62 FT, SCREENED 59-62. MP TOP OF CASING, 3.5 FT ABOVE LSD.
 LSD 61.83 FT ABOVE MSL.
 HIGHEST WATER LEVEL 8.54 BELOW LSD, SEP. 3, 1975.
 LOWEST WATER LEVEL 23.60 BELOW LSD, NOV. 27, 1963.
 RECORDS AVAILABLE 1963-70, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 1, 1977	11.45						

321719092045301 LOCAL WELL NUMBER: OU-244

OWNER: U. S. GEOL. SURVEY. (SEC. 17, T. 15N., R. 4E.) BORED OBSERVATION SEMIARTESIAN WELL IN THE OUACHITA RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 74 FT, SCREENED 71-74. MP TOP OF CASING, 3.3 FT ABOVE LSD.
 LSD 67.53 FT ABOVE MSL.
 HIGHEST WATER LEVEL 11.89 BELOW LSD, MAR. 11, 1969,
 LOWEST WATER LEVEL 28.60 BELOW LSD, OCT. 26, 1965.
 RECORDS AVAILABLE 1963-70, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 1, 1977	15.60						

322422092020701 LOCAL WELL NUMBER: OU-401A

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 16N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 397 FT, SCREENED 389-397. MP TOP OF CASING, 3.89 FT ABOVE LSD.
 LSD 62.28 FT ABOVE MSL.
 HIGHEST WATER LEVEL 70.11 BELOW LSD, APR. 27, 1967,
 LOWEST WATER LEVEL 88.99 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 17, 1977	86.66	MAY 2	88.80	SEP. 1, 1977	88.99		

321714092041401 LOCAL WELL NUMBER: OU-402

OWNER: U. S. GEOL. 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 CASING, 3.68 FT ABOVE LSD.
 LSD 63.30 FT ABOVE MSL.
 HIGHEST WATER LEVEL 37.01 BELOW LSD, JULY 5, 1965,
 LOWEST WATER LEVEL 45.41 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 17, 1977	44.40	MAY 2	44.70	SEP. 1, 1977	45.41		

321714092041402 LOCAL WELL NUMBER: OU-403

OWNER: U. S. GEOL. 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, 4.04 FT ABOVE LSD.
 LSD 63.30 FT ABOVE MSL.
 HIGHEST WATER LEVEL 40.71 BELOW LSD, SEP. 13, 1967,
 LOWEST WATER LEVEL 51.44 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	50.82	MAY 2, 1977	50.17	MAY 17, 1977	50.44	SEP. 1, 1977	51.44
MAR. 17, 1977	50.06						

323030091554801 LOCAL WELL NUMBER: OU-404

OWNER: U. S. GEOL. SURVEY. (SEC. 35, T. 18N., R. 5E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 685 FT, SCREENED 678-685. MP TOP OF CASING, 4.77 FT ABOVE LSD.
 LSD 60.89 FT ABOVE MSL.
 HIGHEST WATER LEVEL 62.27 BELOW LSD, AUG. 7, 1968,
 LOWEST WATER LEVEL 76.17 BELOW LSD, MAY 2, 1977.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	73.73	MAY 2, 1977	76.17	MAY 18, 1977	73.44	SEP. 1, 1977	75.33
MAR. 15, 1977	73.07						

GROUND-WATER LEVELS

OUACHITA PARISH

322531092053901 LOCAL WELL NUMBER: OU-405

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 17N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 775 FT, SCREENED 770-775. MP TOP OF CASING, 3.78 FT ABOVE LSD.
 LSD 66.66 FT ABOVE MSL.
 HIGHEST WATER LEVEL 91.89 BELOW LSD, JULY 19, 1968,
 LOWEST WATER LEVEL 108.56 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1965-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 25, 1977	106.05	MAY 2	106.12	SEP. 1, 1977	108.56		

322531092053902 LOCAL WELL NUMBER: OU-406

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 17N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 681 FT, SCREENED 676-681. MP TOP OF CASING, 3.66 FT ABOVE LSD.
 LSD 66.75 FT ABOVE MSL.
 HIGHEST WATER LEVEL 115.06 BELOW LSD, JAN. 17, 1968,
 LOWEST WATER LEVEL 131.11 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1965-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 25, 1977	129.43	MAY 2	128.93	SEP. 1, 1977	131.11		

323100092165801 LOCAL WELL NUMBER: OU-443

OWNER: U. S. GEOL. SURVEY. (SEC. 29, T. 18N., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 860 FT, SCREENED 850-860. MP TOP OF CASING, 3.20 FT ABOVE LSD.
 LSD 118.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 168.40 BELOW LSD, AUG. 20, 1969,
 LOWEST WATER LEVEL 182.73 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1977	180.37	MAY 3	180.53	SEP. 1, 1977	182.73		

323100092165802 LOCAL WELL NUMBER: OU-444

OWNER: U. S. GEOL. 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 118.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 171.15 BELOW LSD, AUG. 20, 1969,
 LOWEST WATER LEVEL 185.85 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1977	180.06	MAY 3	182.06	SEP. 1, 1977	185.85		

323100092165803 LOCAL WELL NUMBER: OU-445

OWNER: U. S. GEOL. SURVEY. (SEC. 29, T. 18N., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 454 FT, SCREENED 444-454. MP TOP OF CASING, 3.66 FT ABOVE LSD.
 LSD 118.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 191.97 BELOW LSD, APR. 13, 1970,
 LOWEST WATER LEVEL 211.17 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 3, 1977	207.20	SEP. 1	211.17				

311727092270901 LOCAL WELL NUMBER: R-18

OWNER: CITY OF ALEXANDRIA. (SEC. 7, T. 4N., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 406 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 1 1/4-IN NIPPLE, 1.3 FT ABOVE LSD.
 LSD 78.53 FT ABOVE MSL.
 HIGHEST WATER LEVEL 69.73 BELOW LSD, APR. 29, 1960,
 LOWEST WATER LEVEL 179.75 BELOW LSD, OCT. 21, 1963.
 RECORDS AVAILABLE 1939, 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	115.46	FEB. 15, 1977	116.21	JUNE 3, 1977	145.10	SEP. 21, 1977	126.32
DEC. 21	110.50	MAR. 9	111.96	JULY 12	143.40		

311922092273401 LOCAL WELL NUMBER: R-26

OWNER: MISSOURI PACIFIC RR. (SEC. 40, T. 4N., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN, DEPTH APPROXIMATELY 1100 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 3.25 FT ABOVE LSD.
 LSD 83.50 FT ABOVE MSL.
 HIGHEST WATER LEVEL 83.29 BELOW LSD, FEB. 26, 1957,
 LOWEST WATER LEVEL 168.66 BELOW LSD, AUG. 10, 1943.
 RECORDS AVAILABLE 1938-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	100.75	JAN. 9, 1977	99.76J	APR. 10, 1977	98.93	JULY 10, 1977	100.37
OCT. 10	100.84	JAN. 10	99.93	APR. 15	98.83	JULY 15	100.57
OCT. 15	100.83	JAN. 15	99.93	APR. 20	98.80	JULY 20	100.67
OCT. 20	100.93	JAN. 20	100.00	APR. 21	98.64J	JULY 25	100.86
OCT. 25	100.87	JAN. 24	99.90H	APR. 25	98.68	JULY 27	100.95H
OCT. 28	101.00J	JAN. 25	99.93	APR. 27	98.70H	JULY 31	100.99
OCT. 31	100.82	JAN. 29	99.94J	APR. 30	98.77	AUG. 5	101.18
NOV. 5	100.88	JAN. 31	99.95H	MAY 2	98.54J	AUG. 10	101.47
NOV. 10	100.75	FEB. 5	99.85	MAY 5	98.61	AUG. 12	101.52J
NOV. 15	100.70	FEB. 10	99.83	MAY 10	98.60	AUG. 15	101.49
NOV. 20	100.63	FEB. 15	99.67	MAY 15	98.65	AUG. 19	101.52J
NOV. 25	100.60	FEB. 20	99.53	MAY 20	98.77	AUG. 20	101.52
NOV. 26	100.48J	FEB. 23	99.36J	MAY 25	98.89	AUG. 25	101.40
NOV. 29	100.94H	FEB. 25	99.41	MAY 31	99.07H	AUG. 29	101.41J
NOV. 30	100.65	FEB. 28	99.47H	JUNE 5	99.14	AUG. 31	101.32
DEC. 5	100.46	MAR. 5	99.12	JUNE 10	99.31	SEP. 5	101.30
DEC. 10	100.34	MAR. 10	99.15	JUNE 15	99.46	SEP. 10	101.21
DEC. 15	100.14	MAR. 15	99.28	JUNE 20	99.65	SEP. 15	101.17
DEC. 20	100.05	MAR. 20	99.34	JUNE 25	99.84	SEP. 20	101.15
DEC. 25	99.80	MAR. 25	99.34	JUNE 28	100.03H	SEP. 25	101.06
DEC. 31	99.93	MAR. 29	99.27H	JUNE 30	100.06	SEP. 28	100.91J
JAN. 3, 1977	99.90H	MAR. 31	99.28	JULY 5	100.25	SEP. 30	101.03H
JAN. 5	99.89	APR. 5	98.77				

312047092320601 LOCAL WELL NUMBER: R-421

OWNER: CITY OF ALEXANDRIA. (SEC. 28, T. 4N., R. 2W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 960 FT, SCREENED 730-780 AND 930-960. MP LOWER EDGE OF ACCESS PIPE, 2.0 FT ABOVE LSD.
 LSD 77.70 FT ABOVE MSL.
 HIGHEST WATER LEVEL 190.00 BELOW LSD, APR. 2, 1948,
 LOWEST WATER LEVEL 281.20 BELOW LSD, AUG. 2, 1976.
 RECORDS AVAILABLE 1948, 1950-52, 1961-62, 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 3, 1976	248.00G	DEC. 4	273.00A				

312026092322101 LOCAL WELL NUMBER: R-425

OWNER: CITY OF ALEXANDRIA. (SEC. 28, T. 4N., R. 2W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 462 FT, SCREENED 390-462. MP TOP OF FLANGE, .7 FT ABOVE LSD.
 LSD 80.60 FT ABOVE MSL.
 HIGHEST WATER LEVEL 140.70 BELOW LSD, JAN. 16, 1975,
 LOWEST WATER LEVEL 264.90 BELOW LSD, JULY 28, 1977.
 RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 28, 1977	264.90A						

See footnotes at end of table.

GROUND-WATER LEVELS

RAPIDES PARISH

312032092330701 LOCAL WELL NUMBER: R-426

OWNER: CITY OF ALEXANDRIA. (SEC. 22, T. 4N., R. 2W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 964 FT, SCREENED 723-743 AND 924-964, MP LOWER EDGE OF ACCESS PIPE, 1.5 FT ABOVE LSD.
 LSD 79.30 FT ABOVE MSL.
 HIGHEST WATER LEVEL 162.60 BELOW LSD, AUG. 3, 1976,
 LOWEST WATER LEVEL 281.00 BELOW LSD, MAR. 1, 1961.
 RECORDS AVAILABLE 1961-62, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 2, 1976	194.50G	DEC. 3	279.50A	JULY 28, 1977	278.60A		

311729092261001 LOCAL WELL NUMBER: R-440

OWNER: CITY OF ALEXANDRIA. (SEC. 5, T. 4N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 740 FT, SCREENED 710-740, MP LOWER EDGE OF ACCESS PIPE, 1.0 FT ABOVE LSD.
 LSD 75.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 40.52 BELOW LSD, MAY 19, 1955,
 LOWEST WATER LEVEL 314.18 BELOW LSD, MAY 25, 1973.
 RECORDS AVAILABLE 1955, 1977-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	211.00G	DEC. 15	289.00A	JULY 28, 1977	264.90A		

311736092271202 LOCAL WELL NUMBER: R-441B

OWNER: CITY OF ALEXANDRIA. (SEC. 7, T. 4N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 1199 FT, SCREENED 1139-1199, MP TOP OF NIPPLE, 2.0 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 217.01 BELOW LSD, MAY 8, 1974,
 LOWEST WATER LEVEL 286.50 BELOW LSD, JAN. 15, 1975.
 RECORDS AVAILABLE 1967, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 20, 1977	251.65						

312042092313202 LOCAL WELL NUMBER: R-465

OWNER: CITY OF ALEXANDRIA. (SEC. 31, T. 4N., R. 2W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 18 IN, DEPTH 364 FT, SCREENED 313-364, MP LOWER EDGE OF ACCESS PIPE, 1.6 FT ABOVE LSD.
 LSD 85.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 84.00 BELOW LSD, APR. 15, 1962,
 LOWEST WATER LEVEL 227.40 BELOW LSD, JAN. 28, 1977.
 RECORDS AVAILABLE 1952, 1961-62, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 28, 1977	227.40A	JAN. 29	166.30G	JULY 28, 1977	222.10A		

305945092375001 LOCAL WELL NUMBER: R-601

OWNER: U. S. GEOL. SURVEY. (SEC. 1, T. 1S., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 100 FT, SCREENED 95-100, MP TOP OF CASING, 2.0 FT ABOVE LSD.
 LSD 170.40 FT ABOVE MSL.
 HIGHEST WATER LEVEL 49.04 BELOW LSD, SEP. 10, 1975,
 LOWEST WATER LEVEL 52.92 BELOW LSD, JAN. 7, 1972.
 RECORDS AVAILABLE 1954-63, 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 5, 1976	50.20	JAN. 26, 1977	50.14	APR. 18, 1977	50.20	JULY 12, 1977	50.57
DEC. 9	50.24	MAR. 7	50.62	JUNE 17	50.39	SEP. 1	50.70

See footnotes at end of table.

311843092271003 LOCAL WELL NUMBER: R-607

OWNER: CITY OF ALEXANDRIA. (SEC. 9, T. 4N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 16 IN, DEPTH 578 FT, SCREENED 548-578. MP TOP OF HOLE IN PUMP BASE, 2.5 FT ABOVE LSD.

LSD 75.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 103.50 BELOW LSD, OCT. 15, 1965,

LOWEST WATER LEVEL 212.40 BELOW LSD, NOV. 17, 1972.

RECORDS AVAILABLE 1965, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 28, 1977	173.95A						

311918092274001 LOCAL WELL NUMBER: R-610

OWNER: CITY OF ALEXANDRIA. (SEC. 10, T. 4N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 16 IN, DEPTH 892 FT, SCREENED 852-892. MP LOWER EDGE OF ACCESS PIPE, 1.4 FT ABOVE LSD.

LSD 80.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 205.80 BELOW LSD, MAY 9, 1974,

LOWEST WATER LEVEL 352.70 BELOW LSD, NOV. 28, 1972.

RECORDS AVAILABLE 1962, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	308.60A	DEC. 16	253.60G	JULY 28, 1977	306.80A		

312028092304801 LOCAL WELL NUMBER: R-612

OWNER: CITY OF ALEXANDRIA. (SEC. 76, T. 4N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 16 IN, DEPTH 577 FT, SCREENED 537-577. MP LOWER EDGE OF ACCESS PIPE, 2.5 FT ABOVE LSD.

LSD 80.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 100.50 BELOW LSD, JUNE 15, 1956,

LOWEST WATER LEVEL 266.30 BELOW LSD, JAN. 15, 1975.

RECORDS AVAILABLE 1956, 1962, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 28, 1977	264.00A						

311728092270901 LOCAL WELL NUMBER: R-754

OWNER: CITY OF ALEXANDRIA. (SEC. 7, T. 4N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN, DEPTH 344 FT, SCREENED 324-344. MP LOWER EDGE OF ACCESS PIPE, 1.1 FT ABOVE LSD.

LSD 76.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 86.00 BELOW LSD, OCT. 15, 1959,

LOWEST WATER LEVEL 194.90 BELOW LSD, MAR. 9, 1977.

RECORDS AVAILABLE 1959, 1962, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	194.90A	MAR. 10	109.90G				

312350092401401 LOCAL WELL NUMBER: R-760

OWNER: VILLAGE OF BOYCE. (SEC. 2, T. 5N., R. 3W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 8 IN, DEPTH 292 FT, SCREENED 257-292. MP TOP EDGE OF ACCESS PIPE, 1.0 FT ABOVE LSD.

LSD 90.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 60.00 BELOW LSD, AUG. 15, 1958,

LOWEST WATER LEVEL 125.42 BELOW LSD, SEP. 20, 1977.

RECORDS AVAILABLE 1958, 1972, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 20, 1977	125.42						

See footnotes at end of table.

RAPIDES PARISH

311729092261101 LOCAL WELL NUMBER: R-777

OWNER: CITY OF ALEXANDRIA. (SEC. 5, T. 4N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 13 IN, DEPTH 1147 FT, SCREENED 1123-1147. MP LOWER EDGE OF ACCESS PIPE, 0.5 FT ABOVE LSD.
 LSD 75.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 130.16 BELOW LSD, JUNE 25, 1962,
 LOWEST WATER LEVEL 263.40 BELOW LSD, JULY 28, 1977.
 RECORDS AVAILABLE 1962, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	257.50A	DEC. 15	206.50G	JULY 28, 1977	263.40A		

312011092331301 LOCAL WELL NUMBER: R-821

OWNER: CITY OF ALEXANDRIA. (SEC. 23, T. 4N., R. 2W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 784 FT, SCREENED 754-784. MP LOWER EDGE OF ACCESS PIPE, 1.3 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 236.50 BELOW LSD, MAY 6, 1974,
 LOWEST WATER LEVEL 312.70 BELOW LSD, DEC. 2, 1976.
 RECORDS AVAILABLE 1963, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 2, 1976	312.70A	DEC. 3	247.70G	JULY 28, 1977	312.30A		

311612092270603 LOCAL WELL NUMBER: R-823

OWNER: CITY OF ALEXANDRIA. (SEC. 47, T. 3N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 432 FT, SCREENED 337-432. MP LOWER EDGE OF ACCESS PIPE, 1.0 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 87.00 BELOW LSD, JULY 17, 1963,
 LOWEST WATER LEVEL 185.10 BELOW LSD, JULY 28, 1977.
 RECORDS AVAILABLE 1963, 1972, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 2, 1977	157.40A	FEB. 3	105.20G	JULY 28, 1977	185.10A		

311612092270601 LOCAL WELL NUMBER: R-825

OWNER: CITY OF ALEXANDRIA. (SEC. 47, T. 3N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 1272 FT, SCREENED 1240-1272. MP LOWER EDGE OF ACCESS PIPE, 1.0 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 165.00 BELOW LSD, SEP. 15, 1963,
 LOWEST WATER LEVEL 234.85 BELOW LSD, AUG. 2, 1976.
 RECORDS AVAILABLE 1963, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 2, 1977	228.00A	FEB. 3	194.00G	JULY 28, 1977	233.40A		

311612092270602 LOCAL WELL NUMBER: R-827

OWNER: CITY OF ALEXANDRIA. (SEC. 47, T. 3N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 995 FT, SCREENED 935-995. MP LOWER EDGE OF ACCESS PIPE, 1.0 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 129.00 BELOW LSD, JAN. 15, 1964,
 LOWEST WATER LEVEL 270.20 BELOW LSD, JULY 28, 1977.
 RECORDS AVAILABLE 1964, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	223.00A	DEC. 16	190.10G	JULY 28, 1977	270.20A		

See footnotes at end of table.

31155092295501 LOCAL WELL NUMBER: R-833

OWNER: CITY OF ALEXANDRIA. (SEC. 10, T. 3N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 14 IN, DEPTH 858 FT, SCREENED 803-858, MP LOWER EDGE OF ACCESS PIPE, 1.3 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 119.70 BELOW LSD, MAR. 10, 1977,
 LOWEST WATER LEVEL 269.40 BELOW LSD, JAN. 8, 1974.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	193.70A	MAR. 10	119.70G				

31155092295402 LOCAL WELL NUMBER: R-838

OWNER: CITY OF ALEXANDRIA. (SEC. 10, T. 3N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 14 IN, DEPTH 1410 FT, SCREENED 1268-1300, 1325-1373, 1380-1394, AND 1400-1410, MP LOWER EDGE OF ACCESS PIPE, 1.5 FT ABOVE LSD.
 LSD 80.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 144.36 BELOW LSD, JAN. 26, 1976,
 LOWEST WATER LEVEL 246.50 BELOW LSD, JAN. 15, 1975.
 RECORDS AVAILABLE 1972, 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	151.50G	MAR. 10	209.50A				

310740092380201 LOCAL WELL NUMBER: R-847

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 2N., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 105 FT, SCREENED 95-105, MP TOP OF CASING COLLAR, 0.5 FT ABOVE LSD.
 LSD 192.90 FT ABOVE MSL.
 HIGHEST WATER LEVEL 37.57 BELOW LSD, MAY 15, 1968, MAY 20, 1968,
 LOWEST WATER LEVEL 57.20 BELOW LSD, SEP. 30, 1972.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	50.91	JAN. 5, 1977	52.33	MAR. 22, 1977	52.68J	JULY 10, 1977	52.42
OCT. 10	48.72	JAN. 10	52.82	MAR. 25	49.30	JULY 13	53.67J
OCT. 15	49.87	JAN. 15	53.10	MAR. 31	50.56	JULY 14	51.43H
OCT. 20	50.50	JAN. 20	53.24	APR. 5	49.56	JULY 15	53.34
OCT. 25	51.27	JAN. 24	53.31J	APR. 6	48.69H	JULY 20	50.68
OCT. 31	47.87	JAN. 25	52.04	APR. 10	51.35	JULY 25	52.77
NOV. 5	48.65	JAN. 26	52.97H	APR. 14	49.59H	JULY 31	51.96
NOV. 10	50.96	JAN. 28	53.08H	APR. 15	49.59	AUG. 5	51.90
NOV. 16	50.53H	JAN. 31	52.92	APR. 22	48.87J	AUG. 10	53.08
NOV. 20	50.25	FEB. 5	50.90	APR. 25	49.50	AUG. 15	52.81
NOV. 25	50.97	FEB. 10	53.12	MAY 5	52.11H	AUG. 20	52.25
NOV. 30	51.52	FEB. 15	53.62	MAY 10	51.44	AUG. 25	53.81
DEC. 5	51.38	FEB. 17	53.65J	JUNE 2	51.71H	AUG. 31	53.37
DEC. 9	51.97J	FEB. 20	50.15	JUNE 3	52.46H	SEP. 1	51.74H
DEC. 10	51.29	FEB. 25	49.20	JUNE 5	50.95	SEP. 5	51.57
DEC. 14	49.01J	FEB. 28	48.92	JUNE 10	52.25	SEP. 6	51.32J
DEC. 15	50.05	MAR. 5	48.56	JUNE 15	52.69	SEP. 10	53.21
DEC. 20	50.20	MAR. 8	48.30J	JUNE 20	53.24	SEP. 15	53.90
DEC. 21	51.13H	MAR. 10	48.17	JUNE 25	52.06	SEP. 20	54.22
DEC. 25	49.59	MAR. 11	48.11J	JUNE 30	53.43	SEP. 25	54.38
DEC. 28	48.73J	MAR. 15	51.90	JULY 2	50.05J	SEP. 28	54.66J
DEC. 31	51.22	MAR. 20	52.54	JULY 5	53.11	SEP. 30	54.46H

310728092394201 LOCAL WELL NUMBER: R-848

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 2N., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 105 FT, SCREENED 102-105, MP TOP OF CASING, 3.10 FT ABOVE LSD.
 LSD 206.80 FT ABOVE MSL.
 HIGHEST WATER LEVEL 54.38 BELOW LSD, MAY 21, 1968,
 LOWEST WATER LEVEL 63.83 BELOW LSD, DEC. 20, 1971.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	60.52	SEP. 1, 1977	61.24				

See footnotes at end of table.

GROUND-WATER LEVELS

RAPIDES PARISH

310612092355301 LOCAL WELL NUMBER: R-849

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 2N., R. 2W.) DRILLED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 105 FT, SCREENED 95-105. MP TOP OF CASING, 0.5 FT ABOVE LSD.

LSD 193.09 FT ABOVE MSL.

HIGHEST WATER LEVEL 42.10 BELOW LSD, MAY 10, 1968,

LOWEST WATER LEVEL 56.14 BELOW LSD, NOV. 10, 1971.

RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	48.27	JAN. 5, 1977	47.66	APR. 10, 1977	46.89	JULY 10, 1977	48.26
OCT. 10	47.02	JAN. 10	49.10	APR. 14	46.44H	JULY 14	48.95H
OCT. 15	47.70	JAN. 15	50.40	APR. 15	46.36	JULY 15	49.10
OCT. 20	48.23	JAN. 20	47.52	APR. 20	46.19	JULY 20	49.86
OCT. 25	48.29	JAN. 24	46.94H	APR. 25	45.98	JULY 25	49.57
OCT. 31	49.01	JAN. 25	47.88	APR. 29	45.78J	JULY 30	49.58
NOV. 5	49.14	JAN. 28	49.57J	APR. 30	46.70	AUG. 5	49.72
NOV. 10	49.20	JAN. 31	47.24	MAY 5	46.85	AUG. 10	49.87
NOV. 11	49.24J	FEB. 5	49.17	MAY 10	47.61	AUG. 14	47.43J
NOV. 15	47.09	FEB. 10	49.37	MAY 15	47.02	AUG. 15	49.82
NOV. 16	47.80H	FEB. 15	47.87	MAY 20	46.93	AUG. 20	50.46
NOV. 20	48.50	FEB. 20	46.77	MAY 25	47.16	AUG. 21	50.73J
NOV. 25	47.77	FEB. 25	46.57	MAY 31	45.93	AUG. 25	49.83
NOV. 30	48.65	FEB. 28	46.56	JUNE 1	47.14H	AUG. 31	49.92
DEC. 3	49.68J	MAR. 5	46.62	JUNE 3	46.41H	SEP. 1	49.08J
DEC. 5	49.51	MAR. 9	46.12H	JUNE 5	46.41	SEP. 5	48.02
DEC. 10	49.15	MAR. 10	45.97	JUNE 6	46.19J	SEP. 10	48.54
DEC. 15	48.36	MAR. 11	45.88J	JUNE 10	47.70	SEP. 15	47.82
DEC. 20	47.65	MAR. 15	48.52	JUNE 15	46.54	SEP. 20	47.45
DEC. 21	47.62H	MAR. 20	46.55	JUNE 20	48.06	SEP. 25	47.30
DEC. 25	47.74	MAR. 25	48.13	JUNE 25	47.25	SEP. 26	47.27J
DEC. 31	47.23	MAR. 31	47.16	JUNE 30	49.49	SEP. 30	48.23H
JAN. 3, 1977	46.85J	APR. 5	48.23	JULY 5	47.43		

310812092415101 LOCAL WELL NUMBER: R-850

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 2N., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 113 FT, SCREENED 110-113. MP TOP OF CASING, 3.10 FT ABOVE LSD.

LSD 225.89 FT ABOVE MSL.

HIGHEST WATER LEVEL 56.93 BELOW LSD, JUNE 3, 1977,

LOWEST WATER LEVEL 62.26 BELOW LSD, OCT. 19, 1971.

RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	58.14	JAN. 26, 1977	58.32	MAY 3, 1977	58.48	JULY 14, 1977	58.78
DEC. 21	58.57	MAR. 9	58.25	JUNE 3	56.93	SEP. 1	59.06
DEC. 29	58.52						

310928092421401 LOCAL WELL NUMBER: R-851

OWNER: U. S. GEOL. SURVEY. (SEC. 8, T. 2N., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 131 FT, SCREENED 128-131. MP TOP OF CASING, 3.00 FT ABOVE LSD.

LSD 220.55 FT ABOVE MSL.

HIGHEST WATER LEVEL 52.48 BELOW LSD, JUNE 25, 1976, JULY 20, 1976,

LOWEST WATER LEVEL 56.79 BELOW LSD, APR. 6, 1973.

RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	52.89	FEB. 15, 1977	53.27	MAY 3, 1977	53.01	JULY 14, 1977	53.16
DEC. 21	52.97	MAR. 9	53.18	JUNE 3	53.08	SEP. 1	53.37

See footnotes at end of table.

311655092192101 LOCAL WELL NUMBER: R-861

OWNER: BODCAW CO. (SEC. 42, T. 4N., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 87 FT, SCREENED 76-87. MP TOP OF CASING, 1.0 FT ABOVE LSD.
 LSD 128.47 FT ABOVE MSL.
 HIGHEST WATER LEVEL 43.09 BELOW LSD, MAY 21, 1966,
 LOWEST WATER LEVEL 45.48 BELOW LSD, JAN. 15, 1972.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	43.95H	APR. 15, 1977	44.03	JUNE 10, 1977	44.01	AUG. 5, 1977	44.07
DEC. 10	44.02H	APR. 20	44.04	JUNE 15	44.02	AUG. 10	44.08
DEC. 15	44.02	APR. 22	44.21J	JUNE 20	44.03	AUG. 15	44.09
DEC. 20	44.06	APR. 25	44.04	JUNE 25	44.02	AUG. 20	44.10
JAN. 24, 1977	44.00H	APR. 30	44.04	JUNE 30	44.02	AUG. 25	44.11
JAN. 25	44.18	MAY 5	44.01	JULY 5	44.02	AUG. 31	44.12
MAR. 10	43.90H	MAY 10	44.03	JULY 10	44.03	SEP. 5	44.11
MAR. 11	43.80J	MAY 15	44.03	JULY 13	44.05H	SEP. 10	44.13
MAR. 15	44.16	MAY 20	44.01	JULY 15	44.04	SEP. 15	44.15
MAR. 16	44.29J	MAY 25	44.02	JULY 19	44.02J	SEP. 19	44.17J
MAR. 20	44.19	MAY 31	44.03	JULY 20	44.05	SEP. 20	44.14
MAR. 25	44.06	JUNE 3	44.04H	JULY 25	44.06	SEP. 25	44.14
MAR. 31	44.15	JUNE 5	44.02	JULY 31	44.06	SEP. 30	44.20H
APR. 13	43.98H	JUNE 6	43.97J				

310734092373801 LOCAL WELL NUMBER: R-868

OWNER: CITY OF ALEXANDRIA. (SEC. 25, T. 2N., R. 3W.) DRILLED UNUSED WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 104 FT, SCREENED 99-104. MP TOP OF CASING, 0.5 FT ABOVE LSD.
 LSD 196.50 FT ABOVE MSL.
 HIGHEST WATER LEVEL 34.14 BELOW LSD, APR. 30, 1968,
 LOWEST WATER LEVEL 52.65 BELOW LSD, NOV. 5, 1972.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	44.80	JAN. 5, 1977	47.86	APR. 5, 1977	48.91	JULY 5, 1977	50.23
OCT. 8	44.51J	JAN. 10	48.22	APR. 7	48.93J	JULY 10	50.33
OCT. 10	45.35	JAN. 15	48.38	APR. 10	48.68	JULY 14	50.01H
OCT. 15	46.08	JAN. 20	48.57	APR. 14	48.84H	JULY 15	50.07
OCT. 20	45.42	JAN. 24	48.72J	APR. 15	48.88	JULY 20	50.38
OCT. 25	46.24	JAN. 25	48.25	APR. 19	48.98H	JULY 25	50.52
OCT. 30	46.60J	JAN. 26	48.47H	APR. 20	48.99	JULY 31	50.35
OCT. 31	46.21	JAN. 31	48.83	APR. 25	49.12	AUG. 5	50.65
NOV. 5	45.10	FEB. 5	48.99	APR. 30	49.22	AUG. 10	50.82
NOV. 10	44.70	FEB. 10	49.13	MAY 5	49.32	AUG. 14	49.95J
NOV. 15	45.80	FEB. 15	49.23	MAY 10	49.41	AUG. 15	50.98
NOV. 16	46.03H	FEB. 17	49.28J	MAY 15	49.50	AUG. 20	50.96
NOV. 20	45.06	FEB. 20	48.21	MAY 20	49.58	AUG. 23	51.08J
NOV. 22	44.95J	FEB. 25	47.27	MAY 25	49.66	AUG. 25	50.69
NOV. 25	46.03	FEB. 28	46.97	MAY 31	49.76	AUG. 31	50.92
NOV. 30	46.12	MAR. 5	47.50	JUNE 1	49.78H	SEP. 1	50.96J
DEC. 5	46.67	MAR. 9	46.77H	JUNE 5	49.82	SEP. 5	51.07
DEC. 10	47.07	MAR. 10	46.63	JUNE 10	49.87	SEP. 10	51.12
DEC. 15	47.38	MAR. 11	46.57J	JUNE 15	49.88	SEP. 15	51.25
DEC. 20	47.45	MAR. 15	47.64	JUNE 16	48.27	SEP. 20	51.40
DEC. 21	47.16H	MAR. 20	48.35	JUNE 20	49.70	SEP. 25	51.55
DEC. 25	47.05	MAR. 25	48.65	JUNE 25	49.95	SEP. 28	51.63J
DEC. 27	46.55J	MAR. 31	48.78	JUNE 30	50.08	SEP. 30	51.47H
DEC. 31	47.63						

311537092263701 LOCAL WELL NUMBER: R-875

OWNER: CITY OF ALEXANDRIA. (SEC. 45, T. 3N., R. 1W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 504 FT, SCREENED 423-473 AND 494-504. MP LOWER EDGE OF ACCESS PIPE, 1.0 FT ABOVE LSD.
 LSD 82.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 104.50 BELOW LSD, JAN. 16, 1975,
 LOWEST WATER LEVEL 183.00 BELOW LSD, JULY 28, 1977.
 RECORDS AVAILABLE 1967, 1972-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 28, 1977	183.00A						

See footnotes at end of table.

GROUND-WATER LEVELS

RAPIDES PARISH

312409092520901 LOCAL WELL NUMBER: R-879

OWNER: U. S. GEOL. 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, 3.9 FT ABOVE LSD.

LSD 300.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 209.43 BELOW LSD, APR. 8, 1969,

LOWEST WATER LEVEL 213.52 BELOW LSD, SEP. 2, 1977.

RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 23, 1976	212.96	FEB. 4, 1977	212.82	APR. 28, 1977	212.95	JULY 21, 1977	213.45
DEC. 17	212.35	MAR. 17	212.85	JUNE 9	213.23	SEP. 2	213.52

312339092094501 LOCAL WELL NUMBER: R-893

OWNER: LA. DEPT. PUBLIC WORKS. (SEC. 22, T. 5N., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN, DEPTH 820 FT, SCREENED 810-820. MP TOP OF CASING, 1.5 FT ABOVE LSD.

LSD 60.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 28.23 BELOW LSD, APR. 15, 1970,

LOWEST WATER LEVEL 57.47 BELOW LSD, SEP. 9, 1977.

RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	53.18C	FEB. 15, 1977	57.10C	APR. 20, 1977	54.43C	JULY 13, 1977	54.77C
DEC. 20	53.82C	MAR. 10	53.95C	JUNE 2	47.96	SEP. 9	57.47C

310522092305401 LOCAL WELL NUMBER: R-1015

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 1N., R. 1W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 65 FT, SCREENED 62-65. MP TOP OF CASING, 4.00 FT ABOVE LSD.

LSD 165.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 36.07 BELOW LSD, MAR. 21, 1974,

LOWEST WATER LEVEL 43.86 BELOW LSD, JAN. 26, 1977.

RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	41.76	JAN. 26, 1977	43.86	MAY 3, 1977	41.32	JULY 13, 1977	41.75
DEC. 21	43.13	MAR. 9	42.29	JUNE 1	40.98	SEP. 1	41.51

310404092313001 LOCAL WELL NUMBER: R-1016

OWNER: U. S. GEOL. SURVEY. (SEC. 12, T. 1N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 74 FT, SCREENED 71-74. MP TOP OF CASING, 4.00 FT ABOVE LSD.

LSD 180.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 31.94 BELOW LSD, JUNE 24, 1976,

LOWEST WATER LEVEL 35.13 BELOW LSD, JULY 3, 1973.

RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	32.56	JAN. 26, 1977	33.01	MAY 3, 1977	33.24	JULY 13, 1977	33.28
DEC. 21	32.85	MAR. 9	33.06	JUNE 1	33.07	SEP. 1	33.58

310329092320801 LOCAL WELL NUMBER: R-1017

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 1N., R. 2W.) BORED OBSERVATION ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 84 FT, SCREENED 81-84. MP TOP OF CASING, 4.00 FT ABOVE LSD.

LSD 185.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 40.88 BELOW LSD, MAY 19, 1976,

LOWEST WATER LEVEL 43.73 BELOW LSD, OCT. 24, 1973.

RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	41.76	MAR. 9, 1977	42.35	JUNE 1, 1977	42.16	JULY 13, 1977	42.43
DEC. 21	41.59	MAY 3	42.39	JUNE 24	42.30	SEP. 1	42.87
JAN. 24, 1977	42.25						

See footnotes at end of table.

310340092332801 LOCAL WELL NUMBER: R-1018

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 1N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 138 FT, SCREENED 135-138. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 220.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 59.26 BELOW LSD, JUNE 17, 1974.
 LOWEST WATER LEVEL 63.78 BELOW LSD, JULY 3, 1973.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	61.18	JAN. 28, 1977	61.86	MAY 3, 1977	62.33	JULY 13, 1977	62.30
DEC. 20	59.55	MAR. 9	62.08	MAY 5	62.22	SEP. 1	62.57
JAN. 24, 1977	61.79	APR. 6	62.29	JUNE 1	62.08		

310125092324801 LOCAL WELL NUMBER: R-1019

OWNER: U. S. GEOL. SURVEY. (SEC. 35, T. 1N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 88 FT, SCREENED 85-88. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 150.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 44.77 BELOW LSD, MAY 9, 1974.
 LOWEST WATER LEVEL 48.00 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	47.36	JAN. 26, 1977	47.90	APR. 19, 1977	47.66	JULY 13, 1977	47.86
DEC. 21	47.21	MAR. 9	47.94	JUNE 2	47.64	SEP. 1	48.00

310008092340801 LOCAL WELL NUMBER: R-1020

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 1S., R. 2W.) BORED OBSERVATION ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 24 FT, SCREENED 21-24. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 60.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 4.14 BELOW LSD, MAR. 9, 1977.
 LOWEST WATER LEVEL 6.52 BELOW LSD, APR. 19, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	6.33	JAN. 24, 1977	5.84	APR. 19, 1977	6.52	JULY 12, 1977	6.46
DEC. 21	6.12	MAR. 9	4.14	JUNE 1	6.33	SEP. 1	6.00

310131092345901 LOCAL WELL NUMBER: R-1021

OWNER: U. S. GEOL. SURVEY. (SEC. 28, T. 1N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 96 FT, SCREENED 93-96. MP TOP OF CASING, 3.00 FT ABOVE LSD.
 LSD 155.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 42.68 BELOW LSD, MAY 9, 1974.
 LOWEST WATER LEVEL 48.93 BELOW LSD, DEC. 21, 1976.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	48.85	JAN. 26, 1977	48.74	MAY 3, 1977	48.15	JULY 13, 1977	47.81
DEC. 21	48.93	MAR. 9	48.46	JUNE 1	47.78	SEP. 1	48.29

310303092355401 LOCAL WELL NUMBER: R-1022

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 1N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 96 FT, SCREENED 93-96. MP TOP OF CASING, 3.00 FT ABOVE LSD.
 LSD 170.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 35.59 BELOW LSD, MAR. 21, 1974.
 LOWEST WATER LEVEL 41.94 BELOW LSD, JAN. 26, 1977, MAR. 9, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	41.33	JAN. 26, 1977	41.94	MAY 3, 1977	41.44	JULY 13, 1977	41.36
DEC. 21	41.56	MAR. 9	41.94	JUNE 1	41.13	SEP. 1	41.79

GROUND-WATER LEVELS

RAPIDES PARISH

310403092370702 LOCAL WELL NUMBER: R-1024A

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 1N., R. 2W.) BORED OBSERVATION SEMIARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 16 FT, SCREENED 13-16. MP TOP OF CASING, 4.03 FT ABOVE LSD.
 LSD 115.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 2.85 BELOW LSD, MAY 29, 1975.
 LOWEST WATER LEVEL 5.20 BELOW LSD, APR. 19, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	4.23	JAN. 26, 1977	3.71	APR. 19, 1977	5.20	JULY 13, 1977	4.35
DEC. 21	4.42	MAR. 9	3.09	JUNE 1	4.05	SEP. 1	3.99

310403092370701 LOCAL WELL NUMBER: R-1024B

OWNER: U. S. GEOL. SURVEY. (SEC. 18, T. 1N., R. 2W.) BORED OBSERVATION SEMIARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 152 FT, SCREENED 149-152. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 115.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 1.66 BELOW LSD, MAY 29, 1975.
 LOWEST WATER LEVEL 3.74 BELOW LSD, DEC. 18, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	3.27	JAN. 26, 1977	2.71	APR. 19, 1977	2.63	JULY 13, 1977	3.28
DEC. 21	3.46	MAR. 9	1.93	JUNE 1	2.96	SEP. 1	2.91

310348092355701 LOCAL WELL NUMBER: R-1025

OWNER: U. S. GEOL. SURVEY. (SEC. 17, T. 1N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 99 FT, SCREENED 96-99. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 170.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 41.55 BELOW LSD, MAR. 21, 1974.
 LOWEST WATER LEVEL 46.09 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	45.63	JAN. 26, 1977	45.46	APR. 19, 1977	45.02	JULY 13, 1977	45.10
DEC. 21	45.75	MAR. 9	45.20	JUNE 1	44.52	SEP. 1	46.09

310421092351001 LOCAL WELL NUMBER: R-1026

OWNER: U. S. GEOL. SURVEY. (SEC. 9, T. 1N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 116 FT, SCREENED 113-116. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 210.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 47.37 BELOW LSD, MAR. 21, 1974.
 LOWEST WATER LEVEL 51.47 BELOW LSD, DEC. 21, 1976.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	51.14	MAR. 9, 1977	51.25	JUNE 1, 1977	50.47	JULY 13, 1977	51.06
DEC. 21	51.47	APR. 19	51.17	JUNE 24	50.81	SEP. 1	51.28
JAN. 24, 1977	51.33						

310510092344601 LOCAL WELL NUMBER: R-1027

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 1N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 148 FT, SCREENED 145-148. MP TOP OF CASING, 5.00 FT ABOVE LSD.
 LSD 230.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 70.13 BELOW LSD, OCT. 29, 1975.
 LOWEST WATER LEVEL 74.53 BELOW LSD, JUNE 1, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	72.12	MAR. 9, 1977	73.13	JUNE 1, 1977	74.53	JULY 13, 1977	72.56
DEC. 21	72.71	APR. 19	72.98	JUNE 24	72.38	SEP. 1	72.95
JAN. 24, 1977	72.95						

310555092381401 LOCAL WELL NUMBER: R-1028

OWNER: U. S. GEOL. SURVEY. (SEC. 35, T. 2N., R. 3W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 63 FT, SCREENED 60-63. MP TOP OF CASING, 3.00 FT ABOVE LSD.
 LSD 135.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 6.71 BELOW LSD, MAR. 19, 1976,
 LOWEST WATER LEVEL 9.29 BELOW LSD, OCT. 17, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	9.01	JAN. 26, 1977	8.01	APR. 19, 1977	8.50	JULY 13, 1977	9.04
DEC. 21	8.71	MAR. 9	7.12	JUNE 2	8.57	SEP. 1	8.55

310635092391602 LOCAL WELL NUMBER: R-1029A

OWNER: U. S. GEOL. SURVEY. (SEC. 34, T. 2N., R. 3W.) BORED OBSERVATION ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 22 FT, SCREENED 19-22. MP TOP OF CASING, 2.61 FT ABOVE LSD.
 LSD 140.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 6.55 BELOW LSD, MAY 3, 1977,
 LOWEST WATER LEVEL 11.13 BELOW LSD, OCT. 17, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	10.94	FEB. 15, 1977	10.21	MAY 3, 1977	6.55	JULY 13, 1977	10.86
DEC. 21	10.83	MAR. 9	9.27	JUNE 1	10.47	SEP. 1	10.60

310635092391601 LOCAL WELL NUMBER: R-1029B

OWNER: U. S. GEOL. SURVEY. (SEC. 34, T. 2N., R. 3W.) BORED OBSERVATION ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 152 FT, SCREENED 149-152. MP TOP OF CASING, 2.73 FT ABOVE LSD.
 LSD 140.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 6.84 BELOW LSD, MAY 3, 1977,
 LOWEST WATER LEVEL 10.63 BELOW LSD, OCT. 17, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	10.41	FEB. 15, 1977	9.45	MAY 3, 1977	6.84	JULY 13, 1977	10.35
DEC. 21	10.29	MAR. 9	8.53	JUNE 1	9.74	SEP. 1	10.14

310552092410301 LOCAL WELL NUMBER: R-1030

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 1N., R. 3W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 134 FT, SCREENED 131-134. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 220.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 66.89 BELOW LSD, OCT. 29, 1975,
 LOWEST WATER LEVEL 69.92 BELOW LSD, JUNE 17, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	67.91	FEB. 15, 1977	69.02	MAY 3, 1977	69.21	JULY 13, 1977	69.34
DEC. 21	67.58	MAR. 9	68.96	JUNE 3	69.25	SEP. 1	69.53

310436092430201 LOCAL WELL NUMBER: R-1031

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 1N., R. 3W.) BORED OBSERVATION SEMIARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 95 FT, SCREENED 92-95. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 140.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 0.61 BELOW LSD, DEC. 18, 1974,
 LOWEST WATER LEVEL 8.01 BELOW LSD, OCT. 17, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	7.58	JAN. 26, 1977	4.57	JULY 13, 1977	7.98	SEP. 1, 1977	7.17
DEC. 21	5.38	JUNE 1	7.34				

GROUND-WATER LEVELS

RAPIDES PARISH

310919092385701 LOCAL WELL NUMBER: R-1032

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 2N., R. 3W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 116 FT, SCREENED 113-116. MP TOP OF CASING, 3.00 FT ABOVE LSD.
 LSD 240.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 87.08 BELOW LSD, AUG. 18, 1976,
 LOWEST WATER LEVEL 89.87 BELOW LSD, JULY 2, 1973.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	87.55	JAN. 26, 1977	87.46	MAY 3, 1977	88.09	JULY 14, 1977	88.36
DEC. 21	87.21	MAR. 11	88.06	JUNE 2	88.13	SEP. 1	88.52

310927092374001 LOCAL WELL NUMBER: R-1033

OWNER: U. S. GEOL. SURVEY. (SEC. 12, T. 2N., R. 3W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 84 FT, SCREENED 81-84. MP TOP OF CASING, 3.50 FT ABOVE LSD.
 LSD 175.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 34.77 BELOW LSD, NOV. 13, 1975,
 LOWEST WATER LEVEL 38.38 BELOW LSD, NOV. 21, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	36.52	JAN. 26, 1977	36.70	MAY 3, 1977	36.81	JULY 14, 1977	37.35
DEC. 21	36.87	MAR. 11	36.76	JUNE 2	36.87	SEP. 1	37.75

310808092374001 LOCAL WELL NUMBER: R-1034

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 2N., R. 3W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 95 FT, SCREENED 92-95. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 195.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 38.58 BELOW LSD, NOV. 13, 1975,
 LOWEST WATER LEVEL 42.68 BELOW LSD, JAN. 16, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	39.80	JAN. 26, 1977	40.17	MAY 3, 1977	40.18	JULY 14, 1977	42.00
DEC. 21	40.16	MAR. 8	41.09	JUNE 2	41.56	SEP. 1	42.52

310806092351801 LOCAL WELL NUMBER: R-1035

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 2N., R. 2W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 127 FT, SCREENED 124-127. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 230.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 75.24 BELOW LSD, AUG. 18, 1976,
 LOWEST WATER LEVEL 78.97 BELOW LSD, JULY 2, 1973.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	76.56	JAN. 24, 1977	76.02	JUNE 3, 1977	76.00	JULY 14, 1977	76.14
DEC. 21	76.15	MAR. 8	76.36	JUNE 24	75.99	SEP. 1	76.46

305944092402201 LOCAL WELL NUMBER: R-1045

OWNER: U. S. GEOL. SURVEY. (SEC. 4, T. 1S., R. 3W.) BORED OBSERVATION ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 63 FT, SCREENED 60-63. MP TOP OF CASING, 11.5 FT ABOVE LSD.
 LSD 120.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 1.70 ABOVE LSD, MAR. 7, 1977,
 LOWEST WATER LEVEL 7.80 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 5, 1976	7.33	JAN. 26, 1977	2.91	APR. 18, 1977	5.52	JULY 12, 1977	7.65
DEC. 9	4.85	MAR. 7	+1.70	JUNE 7	7.07	SEP. 1	7.80

See footnotes at end of table.

311159092441001 LOCAL WELL NUMBER: R-1056

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 3N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN, DEPTH 1555 FT, SCREENED 1545-1555. MP TOP OF CASING, 3.2 FT ABOVE LSD.
 LSD 240.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 157.97 BELOW LSD, MAY 9, 1977.
 LOWEST WATER LEVEL 180.23 BELOW LSD, APR. 9, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	166.70	FEB. 15, 1977	161.33	MAY 9, 1977	157.97	JULY 14, 1977	161.41
DEC. 20	164.90	MAR. 9	160.28	JUNE 3	158.02	SEP. 1	163.85
DEC. 29	164.17						

305428092411001 LOCAL WELL NUMBER: R-1059

OWNER: DAVIDE WILLIS. (SEC. 4, T. 2S., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 60 FT, SCREENED 50-60. MP TOP OF 2-IN WHITE PLASTIC CASING, 1.1 FT ABOVE LSD.
 LSD 135.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 21.79 BELOW LSD, FEB. 26, 1974.
 LOWEST WATER LEVEL 25.09 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1972, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	25.09	MAR. 15, 1977	22.50				

305940092433801 LOCAL WELL NUMBER: R-1060

OWNER: VANCE JOHNSON. (SEC. 1, T. 1S., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, REPORTED DEPTH 51 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF 2-IN GALV. PIPE, 1.0 FT ABOVE LSD.
 LSD 184.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 27.27 BELOW LSD, JUNE 20, 1975.
 LOWEST WATER LEVEL 29.54 BELOW LSD, AUG. 22, 1973.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	28.83	MAR. 16, 1977	29.14				

305614092460001 LOCAL WELL NUMBER: R-1063

OWNER: PLAINVIEW SCHOOL. (SEC. 27, T. 1S., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 100 FT, SCREENED INTERVAL UNKNOWN, MP TOP OF 4-IN CASING, 0.55 FT ABOVE LSD.
 LSD 202.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 62.77 BELOW LSD, MAR. 12, 1976.
 LOWEST WATER LEVEL 64.85 BELOW LSD, AUG. 22, 1973.
 RECORDS AVAILABLE 1973, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	63.77	MAR. 16, 1977	64.30				

305755092390801 LOCAL WELL NUMBER: R-1065

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 1S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 118 FT, SCREENED 113-118. MP TOP OF 2-IN GALV. PIPE, 1.8 FT ABOVE LSD.
 LSD 134.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 17.80 BELOW LSD, MAR. 16, 1977.
 LOWEST WATER LEVEL 20.15 BELOW LSD, NOV. 18, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	20.15	MAR. 16, 1977	17.80				

GROUND-WATER LEVELS

RAPIDES PARISH

305716092323701 LOCAL WELL NUMBER: R-1066

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 1S., R. 2W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 111 FT, SCREENED 106-111. MP TOP OF 2-IN GALV. PIPE, 2.1 FT ABOVE LSD.
 LSD 159.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 53.24 BELOW LSD, AUG. 7, 1974,
 LOWEST WATER LEVEL 56.33 BELOW LSD, MAR. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	55.64	MAR. 9, 1977	56.32	MAR. 16, 1977	56.33		

310104092481801 LOCAL WELL NUMBER: R-1067

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 1N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN EVANGELINE AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 112 FT, SCREENED 106-112. MP TOP OF 2-IN GALV. PIPE, 3.6 FT ABOVE LSD.
 LSD 205.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 35.64 BELOW LSD, JUNE 20, 1975,
 LOWEST WATER LEVEL 38.15 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1976	38.15	MAR. 16, 1977	35.89				

310541092293601 LOCAL WELL NUMBER: R-1085B

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 1N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE BLOUNTS CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN, DEPTH 500 FT, SCREENED 490-500. MP TOP OF CASING, AT LSD, SINCE AUG. 1976.
 LSD 100.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 38.60 BELOW LSD, MAY 20, 1975,
 LOWEST WATER LEVEL 47.95 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	47.55	JAN. 26, 1977	47.12	APR. 18, 1977	47.12	JULY 12, 1977	47.57
DEC. 9	47.51	MAR. 9	47.02	JUNE 1	47.33	SEP. 1	47.95

RED RIVER PARISH

320019093225601 LOCAL WELL NUMBER: RR-141

OWNER: U. S. GEOL. SURVEY. (SEC. 22, T. 12N., R. 10W.) BORED OBSERVATION SEMIARTESIAN 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, 1.0 FT ABOVE LSD.
 LSD 128.19 FT ABOVE MSL.
 HIGHEST WATER LEVEL 1.18 BELOW LSD, JUNE 12, 1975,
 LOWEST WATER LEVEL 20.76 BELOW LSD, FEB. 2, 1957.
 RECORDS AVAILABLE 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1976	11.80G	FEB. 2, 1977	10.49	APR. 15, 1977	8.10G	JULY 13, 1977	15.30G
NOV. 9	12.80G	FEB. 14	7.40G	MAY 9	8.15	AUG. 3	11.80G
DEC. 3	13.10G	MAR. 10	7.60G	MAY 13	8.20G	SEP. 9	12.22
DEC. 17	11.90	MAR. 15	6.83	JUNE 15	10.20	SEP. 15	16.60G
JAN. 12, 1977	11.10G	APR. 5	6.25	JUNE 21	10.40G		

See footnotes at end of table.

322956091441001 LOCAL WELL NUMBER: RI-88

OWNER: U. S. GEOL. SURVEY. (SEC. 34, T. 18N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 4 IN, DEPTH 239 FT, SCREENED 228-239. MP TOP OF 4-IN COLLAR, 3.6 FT ABOVE LSD.

LSD 85.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 17.00 BELOW LSD, MAY 21, 1975.

LOWEST WATER LEVEL 20.45 BELOW LSD, NOV. 30, 1970.

RECORDS AVAILABLE 1969-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1977	19.25	MAY 20	19.15	SEP. 13, 1977	19.34		

323029091430001 LOCAL WELL NUMBER: RI-89

OWNER: U. S. GEOL. 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, 4.2 FT ABOVE LSD.

LSD 84.00 FT ABOVE MSL.

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
JAN. 4, 1977	19.41	MAY 20	19.36	SEP. 13, 1977	19.63		

322706091453401 LOCAL WELL NUMBER: RI-91

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 17N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 180 FT, SCREENED 170-180. MP TOP OF CASING, 3.9 FT ABOVE LSD.

LSD 80.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 10.27 BELOW LSD, MAY 21, 1975.

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
JAN. 4, 1977	11.34	MAY 20	11.20	SEP. 13, 1977	11.57		

322706091453402 LOCAL WELL NUMBER: RI-92

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 17N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE MISS. RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 153 FT, SCREENED 143-153. MP TOP OF HOLE IN CASING CAP, 4.25 FT ABOVE LSD.

LSD 80.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 10.21 BELOW LSD, FEB. 20, 1976.

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
JAN. 4, 1977	11.45	MAY 20	11.02	SEP. 13, 1977	11.25		

322804091375002 LOCAL WELL NUMBER: RI-93A

OWNER: U. S. GEOL. SURVEY. (SEC. 10, T. 17N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 239 FT, SCREENED 229-239. MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 80.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 15.09 BELOW LSD, FEB. 20, 1976.

LOWEST WATER LEVEL 18.25 BELOW LSD, JULY 20, 1970.

RECORDS AVAILABLE 1970-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1977	15.63	MAY 20	15.91	SEP. 13, 1977	16.41		

GROUND-WATER LEVELS

RICHLAND PARISH

323304091374301 LOCAL WELL NUMBER: RI-94

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 18N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 345 FT, SCREENED 335-345, MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 80.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 11.87 BELOW LSD, FEB. 20, 1976,

LOWEST WATER LEVEL 14.23 BELOW LSD, AUG. 25, 1970.

RECORDS AVAILABLE 1970-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1977	12.43	MAY 20	12.30	SEP. 13, 1977	12.47		

323217091295002 LOCAL WELL NUMBER: RI-95A

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 18N., R. 9E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 200 FT, SCREENED 190-200, MP TOP OF CASING, 2.0 FT ABOVE LSD.

LSD 90.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 23.76 BELOW LSD, FEB. 20, 1976,

LOWEST WATER LEVEL 25.53 BELOW LSD, NOV. 30, 1970.

RECORDS AVAILABLE 1970-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1977	24.10	MAY 20	24.08	SEP. 13, 1977	24.37		

323003091301301 LOCAL WELL NUMBER: RI-96

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 18N., R. 9E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 170 FT, SCREENED 160-170, MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 90.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 15.59 BELOW LSD, MAY 21, 1975,

LOWEST WATER LEVEL 17.34 BELOW LSD, NOV. 30, 1970.

RECORDS AVAILABLE 1970-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1977	15.93	MAY 20	15.92	SEP. 13, 1977	16.09		

322750091350501 LOCAL WELL NUMBER: RI-97

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 17N., R. 9E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 239 FT, SCREENED 229-239, MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 80.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 13.98 BELOW LSD, MAY 21, 1975,

LOWEST WATER LEVEL 17.48 BELOW LSD, AUG. 25, 1970.

RECORDS AVAILABLE 1970-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1977	15.57	MAY 20	15.40	SEP. 13, 1977	15.94		

322636091295702 LOCAL WELL NUMBER: RI-114

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 17N., R. 9E.) DRILLED OBSERVATION WATER-TABLE WELL IN THE MISS. 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 95.00 FT ABOVE MSL.

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
JAN. 4, 1977	32.75	MAY 19	32.93	SEP. 13, 1977	33.14		

RICHLAND PARISH

322605091301101 LOCAL WELL NUMBER: RI-124

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 17N., R. 9E.) BORED OBSERVATION WATER-TABLE WELL IN THE MISS. ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1.25 IN, DEPTH 84 FT, SCREENED 81-84. MP TOP OF CASING, 3.0 FT ABOVE LSD.
 LSD 95.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 32.13 BELOW LSD, AUG. 7, 1975,
 LOWEST WATER LEVEL 33.36 BELOW LSD, SEP. 13, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1977	32.93	MAY 19	33.13	SEP. 13, 1977	33.36		

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 PALEOCENE-EOCENE AGE, DIAM 10 IN, DEPTH 170 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 1.8 FT ABOVE LSD.
 LSD 220.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 3.34 BELOW LSD, MAR. 21, 1961,
 LOWEST WATER LEVEL 16.93 BELOW LSD, JULY 25, 1955.
 RECORDS AVAILABLE 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 16, 1976	13.14	MAR. 15, 1977	10.16	JUNE 7, 1977	13.16	SEP. 1, 1977	13.60

314708093385201 LOCAL WELL NUMBER: SA-163

OWNER: SABINE PARISH SCHOOL BD. (SEC. 12, T. 9N., R. 13W.) DRILLED UNUSED ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 6 IN, DEPTH 200 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 0.5 FT ABOVE LSD.
 LSD 305.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 83.60 BELOW LSD, SEP. 10, 1955,
 LOWEST WATER LEVEL 89.80 BELOW LSD, JUNE 25, 1963.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	85.46	MAR. 15, 1977	84.84	JUNE 7, 1977	84.90	SEP. 1, 1977	84.45

312243093240501 LOCAL WELL NUMBER: SA-287

OWNER: A. J. HODGES. (SEC. 28, T. 5N., R. 10W.) DRILLED UNUSED ARTESIAN WELL IN THE CATAHOULA FM. OF MIOCENE AGE, DIAM 6 IN, DEPTH 208 FT, SCREENED 178-208. MP 1/2-IN HOLE IN SANITARY SEAL, 1.2 FT ABOVE LSD.
 LSD 310.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 64.02 BELOW LSD, DEC. 17, 1958,
 LOWEST WATER LEVEL 70.20 BELOW LSD, FEB. 12, 1973.
 RECORDS AVAILABLE 1958, 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	65.22	JAN. 31, 1977	65.12	APR. 27, 1977	64.78	SEP. 1, 1977	65.55
DEC. 16	65.13	MAR. 16	64.88	JUNE 9	65.05		

311828093270301 LOCAL WELL NUMBER: SA-386

OWNER: U. S. GEOL. SURVEY. (SEC. 24, T. 4N., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CATAHOULA FM. OF MIOCENE AGE, DIAM 2 IN, DEPTH 131 FT, SCREENED 126-131. MP TOP OF CASING, 2.2 FT ABOVE LSD.
 LSD 242.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 12.78 BELOW LSD, APR. 24, 1973,
 LOWEST WATER LEVEL 17.57 BELOW LSD, JUNE 21, 1965.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	15.78	JAN. 31, 1977	14.37	APR. 27, 1977	13.87	JULY 20, 1977	16.24
DEC. 16	15.92	MAR. 16	13.95	JUNE 8	15.13	SEP. 1	16.75

GROUND-WATER LEVELS

SABINE PARISH

311930093362301 LOCAL WELL NUMBER: SA-387

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 4N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 402 FT, SCREENED 397-402. MP TOP OF CASING, 1.5 FT ABOVE LSD.

LSD 210.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 39.59 BELOW LSD, JUNE 4, 1969,

LOWEST WATER LEVEL 67.86 BELOW LSD, OCT. 28, 1965.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	43.96	FEB. 2, 1977	43.62	APR. 27, 1977	46.46	JULY 20, 1977	44.16
DEC. 15	43.59	MAR. 16	41.78	JUNE 8	42.09	SEP. 1	43.70

311930093362302 LOCAL WELL NUMBER: SA-388

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 4N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN, DEPTH 265 FT, SCREENED 260-265. MP TOP OF CASING, 1.2 FT ABOVE LSD.

LSD 210.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 40.28 BELOW LSD, JAN. 31, 1974,

LOWEST WATER LEVEL 65.18 BELOW LSD, OCT. 28, 1965.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	43.12	FEB. 2, 1977	42.37	APR. 27, 1977	40.85	JULY 20, 1977	42.16
DEC. 15	42.58	MAR. 16	41.23	JUNE 8	41.32	SEP. 1	42.93

312313093352801 LOCAL WELL NUMBER: SA-389

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 5N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 383 FT, SCREENED 378-383. MP TOP OF CASING, 1.3 FT ABOVE LSD.

LSD 260.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 70.58 BELOW LSD, MAR. 27, 1969,

LOWEST WATER LEVEL 77.49 BELOW LSD, FEB. 2, 1967.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	73.53	MAR. 17, 1977	73.08	JUNE 8, 1977	72.85	SEP. 1, 1977	73.95

312605093319801 LOCAL WELL NUMBER: SA-390

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 5N., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 362 FT, SCREENED 357-362. MP TOP OF CASING, 0.7 FT ABOVE LSD.

LSD 325.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 115.42 BELOW LSD, JULY 3, 1975,

LOWEST WATER LEVEL 117.52 BELOW LSD, DEC. 5, 1967.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	115.80	MAR. 17, 1977	115.55	JUNE 8, 1977	115.89	SEP. 1, 1977	116.26

312205093311101 LOCAL WELL NUMBER: SA-392

OWNER: U. S. GEOL. 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, 1.0 FT ABOVE LSD.

LSD 242.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 23.79 BELOW LSD, JULY 3, 1975,

LOWEST WATER LEVEL 26.12 BELOW LSD, JAN. 3, 1969.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	24.68	FEB. 2, 1977	24.27	APR. 27, 1977	24.25	JULY 20, 1977	24.87
DEC. 16	24.74	MAR. 16	24.20	JUNE 9	24.38	SEP. 1	24.78

SABINE PARISH

313747093451001 LOCAL WELL NUMBER: SA-394

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 8N., R. 14W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 278 FT, SCREENED 273-278. MP TOP OF CASING, 1.0 FT ABOVE LSD.
 LSD 265.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 106.74 BELOW LSD, APR. 9, 1975.
 LOWEST WATER LEVEL 118.85 BELOW LSD, OCT. 4, 1967.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1976	108.96	FEB. 1, 1977	110.48	APR. 28, 1977	108.97	JULY 19, 1977	108.96
DEC. 14	109.98	MAR. 15	109.70	JUNE 7	108.14	SEP. 1	109.36

314619093461001 LOCAL WELL NUMBER: SA-395

OWNER: U. S. GEOL. SURVEY. (SEC. 14, T. 9N., R. 14W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 293 FT, SCREENED 288-293. MP TOP OF CASING, 1.5 FT ABOVE LSD.
 LSD 210.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 1.03 ABOVE LSD, JUNE 5, 1968.
 LOWEST WATER LEVEL 2.94 BELOW LSD, SEP. 1, 1977.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	2.83	FEB. 1, 1977	2.62	JUNE 7, 1977	2.47	SEP. 1, 1977	2.94
DEC. 14	2.79	MAR. 15	2.24	JULY 19	2.82		

ST. LANDRY PARISH

302052092065201 LOCAL WELL NUMBER: SL-10

OWNER: CANKTON GIN CO. (SEC. 24, T. 8S., R. 3E.) DRILLED INDUSTRIAL ARTESIAN WELL IN SAND OF PLEISTOCENE AGE, DIAM 4 TO 2 IN, DEPTH 210 FT, SCREENED 190-210. MP TOP OF 4-IN CASING, 0.45 FT ABOVE LSD.
 LSD 45.94 FT ABOVE MSL.
 HIGHEST WATER LEVEL 36.24 BELOW LSD, JAN. 7, 1948.
 LOWEST WATER LEVEL 58.83 BELOW LSD, MAR. 8, 1977.
 RECORDS AVAILABLE 1944-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	58.83						

303108092041201 LOCAL WELL NUMBER: SL-37

OWNER: U. S. GEOL. SURVEY. (SEC. 85, T. 6S., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN EVANGELINE AQUIFER OF MIO-PLIOCENE AGE, DIAM 2 IN, DEPTH 629 FT, SCREENED 624-629. MP TOP INSIDE EDGE OF 2-IN CASING, 2.0 FT ABOVE LSD.
 LSD 60.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 68.56 BELOW LSD, JUNE 7, 1966.
 LOWEST WATER LEVEL 89.02 BELOW LSD, SEP. 15, 1976.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	88.44	JAN. 20, 1977	88.60	MAR. 23, 1977	87.30	JULY 18, 1977	88.01
NOV. 23	88.45	FEB. 23	87.46	APR. 26	86.86	AUG. 24	87.35
DEC. 21	88.11	MAR. 8	87.38	MAY 25	87.32	SEP. 20	87.40

302806091583601 LOCAL WELL NUMBER: SL-40

OWNER: DALFREY BROS COTTON GIN. (IRREG. SEC. 23, T. 7S., R. 5E.) DRILLED INDUSTRIAL ARTESIAN WELL IN SAND OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 165 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 4-IN CASING, 2.0 FT ABOVE LSD.
 LSD 29.05 FT ABOVE MSL.
 HIGHEST WATER LEVEL 15.09 BELOW LSD, MAR. 6, 1951.
 LOWEST WATER LEVEL 23.96 BELOW LSD, FEB. 16, 1971.
 RECORDS AVAILABLE 1951-69, 1971-72, 1974-75, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1977	23.52						

GROUND-WATER LEVELS

ST. LANDRY PARISH

303105092143401 LOCAL WELL NUMBER: SL-98

OWNER: LURNEST FRUGE. (IRREG. SEC. 43, T. 6S., R. 2E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 IN, REPORTED DEPTH 300 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 5.11 FT ABOVE LSD.
 LSD 57.57 FT ABOVE MSL.
 HIGHEST WATER LEVEL 69.94 BELOW LSD, APR. 17, 1959,
 LOWEST WATER LEVEL 88.25 BELOW LSD, FEB. 25, 1974.
 RECORDS AVAILABLE 1958-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	85.89						

304007091575201 LOCAL WELL NUMBER: SL-163

OWNER: LESTER WOODS. (SEC. 33, T. 4S., R. 5E.) DRILLED DOMESTIC AND STOCK-SUPPLY ARTESIAN WELL IN SAND OF PLEISTOCENE AGE, DIAM 1 1/4 IN, REPORTED DEPTH 170 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 1 1/4-IN PIPE, 1.0 FT ABOVE LSD.
 LSD 32.62 FT ABOVE MSL.
 HIGHEST WATER LEVEL 11.21 BELOW LSD, FEB. 26, 1974,
 LOWEST WATER LEVEL 19.35 BELOW LSD, SEP. 4, 1956.
 RECORDS AVAILABLE 1954-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	15.25						

304645091492501 LOCAL WELL NUMBER: SL-171

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 3S., R. 6E.) DRILLED OBSERVATION ARTESIAN WELL IN ATCHAFALAYA AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 89 FT, SCREENED 84-89. MP TOP OF 4-IN CASING, 1.60 FT ABOVE LSD.
 LSD 30.83 FT ABOVE MSL.
 HIGHEST WATER LEVEL 0.92 BELOW LSD, MAY 16, 1973,
 LOWEST WATER LEVEL 20.32 BELOW LSD, NOV. 4, 1963.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	19.78	JAN. 20, 1977	13.19	MAR. 8, 1977	8.69	JULY 19, 1977	17.19
DEC. 10	18.44	FEB. 15	12.79	MAY 25	11.02		

304116092083601 LOCAL WELL NUMBER: SL-179

OWNER: U. S. GEOL. 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, WELL POINT 91-94. MP TOP OF 1 1/4-IN PIPE, 4.0 FT ABOVE LSD.
 LSD 49.88 FT ABOVE MSL.
 HIGHEST WATER LEVEL 45.23 BELOW LSD, APR. 28, 1958,
 LOWEST WATER LEVEL 54.43 BELOW LSD, MAR. 8, 1977.
 RECORDS AVAILABLE 1958-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	54.43						

304315092041101 LOCAL WELL NUMBER: SL-191

OWNER: ELTON FONTENOT. (IRREG. SEC. 40, T. 4S., R. 4E.) DRILLED STOCK-SUPPLY ARTESIAN WELL IN SAND OF PLEISTOCENE AGE, DIAM 2 IN, REPORTED DEPTH 140 FT, SCREENED 130-140. MP TOP OF 1 1/4-IN NIPPLE, 1.50 FT ABOVE LSD.
 LSD 39.04 FT ABOVE MSL.
 HIGHEST WATER LEVEL 23.28 BELOW LSD, MAR. 23, 1961,
 LOWEST WATER LEVEL 28.82 BELOW LSD, MAR. 8, 1977.
 RECORDS AVAILABLE 1960-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	28.82						

302443092062901 LOCAL WELL NUMBER: SL-193

OWNER: SUN OIL CO. (IRREG. SEC. 37, T. 7S., R. 4E.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, REPORTED DEPTH 234 FT, SCREENED 214-234. MP TOP OF COUPLING, 2.59 FT ABOVE LSD.
 LSD 47.84 FT ABOVE MSL.
 HIGHEST WATER LEVEL 48.78 BELOW LSD, MAR. 30, 1962,
 LOWEST WATER LEVEL 57.17 BELOW LSD, MAR. 8, 1977.
 RECORDS AVAILABLE 1960-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	57.17						

303150092252101 LOCAL WELL NUMBER: SL-200

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN EVANGELINE AQUIFER OF MIO-PLIOCENE AGE, DIAM 2 IN, DEPTH 708 FT, SCREENED 703-708. MP TOP OF 2-IN CASING, 0.40 FT ABOVE LSD.
 LSD 50.72 FT ABOVE MSL.
 HIGHEST WATER LEVEL 68.57 BELOW LSD, APR. 26, 1966,
 LOWEST WATER LEVEL 80.39 BELOW LSD, SEP. 19, 1972.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 20, 1976	79.29	FEB. 23, 1977	77.41	APR. 26, 1977	77.10	JULY 26, 1977	79.14
NOV. 23	78.75	MAR. 8	77.38	MAY 25	77.16	AUG. 25	79.39
DEC. 21	78.29	MAR. 23	77.30	JUNE 16	77.74	SEP. 21	79.35
JAN. 20, 1977	77.85						

303150092252102 LOCAL WELL NUMBER: SL-201

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 203 FT, SCREENED 197-203. MP TOP OF 2-IN CASING, 0.40 FT ABOVE LSD.
 LSD 50.55 FT ABOVE MSL.
 HIGHEST WATER LEVEL 79.08 BELOW LSD, MAR. 23, 1966,
 LOWEST WATER LEVEL 114.14 BELOW LSD, JULY 25, 1973.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 20, 1976	94.83	FEB. 23, 1977	89.55	APR. 26, 1977	92.14	JULY 26, 1977	106.38
NOV. 23	93.75	MAR. 8	89.52	MAY 25	105.63	AUG. 25	97.33
DEC. 21	92.04	MAR. 23	90.42	JUNE 16	105.21	SEP. 21	95.69
JAN. 20, 1977	90.96						

303109092041901 LOCAL WELL NUMBER: SL-206

OWNER: U. S. GEOL. SURVEY. (SEC. 85, T. 6S., R. 4E.) AUGERED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 100 FT, SCREENED 97-100. MP TOP INSIDE EDGE OF 1 1/4-IN CASING, 2.0 FT ABOVE LSD.
 LSD 62.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 64.73 BELOW LSD, JUNE 9, 1966,
 LOWEST WATER LEVEL 68.94 BELOW LSD, AUG. 28, 1969.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	68.37	JAN. 20, 1977	68.60	MAR. 23, 1977	68.05	JULY 18, 1977	68.57
NOV. 23	68.42	FEB. 23	67.96	APR. 26	67.67	AUG. 24	68.55
DEC. 21	68.40	MAR. 8	68.09	MAY 25	68.03	SEP. 20	68.50

GROUND-WATER LEVELS

ST. LANDRY PARISH

303110092035201 LOCAL WELL NUMBER: SL-207

OWNER: U. S. GEOL. SURVEY. (SEC. 85, T. 65., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 478 FT, SCREENED 472-478. MP TOP INSIDE EDGE OF 2-IN CASING, 2.0 FT ABOVE LSD.

LSD 62.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 66.28 BELOW LSD, MAR. 26, 1968.

LOWEST WATER LEVEL 73.79 BELOW LSD, JULY 18, 1977.

RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1976	73.32	JAN. 20, 1977	73.73	MAR. 23, 1977	72.85	JULY 18, 1977	73.79
NOV. 23	73.23	FEB. 23	72.91	APR. 26	72.62	AUG. 24	73.44
DEC. 21	73.26	MAR. 8	72.90	MAY 25	73.15	SEP. 20	73.78

303247091544301 LOCAL WELL NUMBER: SL-208

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 65., R. 5E.) DRILLED OBSERVATION ARTESIAN WELL IN ATCHAFALAYA AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 1/2 IN, DEPTH 132 FT, SCREENED 124-132. MP TOP INSIDE EDGE OF 2-IN CASING, 2.0 FT ABOVE LSD.

LSD 18.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 3.00 BELOW LSD, FEB. 26, 1974.

LOWEST WATER LEVEL 12.58 BELOW LSD, NOV. 18, 1969.

RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1977	7.40						

304232092094701 LOCAL WELL NUMBER: SL-220

OWNER: U. S. GEOL. SURVEY. (SEC. 110, T. 4S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN EVANGELINE AQUIFER OF MIO-PLIOCENE AGE, DIAM 2 IN, DEPTH 485 FT, SCREENED 475-485. MP TOP OF 2-IN CASING, 1.93 FT ABOVE LSD.

LSD 65.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 49.90 BELOW LSD, APR. 25, 1967.

LOWEST WATER LEVEL 56.94 BELOW LSD, MAR. 8, 1977.

RECORDS AVAILABLE 1967-69, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 25, 1967	49.90	JAN. 15, 1968	50.37	AUG. 19, 1968	51.27	MAR. 17, 1969	50.82
AUG. 14	50.72	FEB. 15	50.43	SEP. 16	51.25	APR. 15	50.66
SEP. 14	50.66	MAR. 18	50.29	OCT. 11	51.30	MAY 15	50.79
OCT. 13	50.81	APR. 17	50.17	NOV. 15	51.27	JUNE 17	51.16
OCT. 19	50.79	MAY 16	50.26	DEC. 17	51.10	OCT. 8	51.84
NOV. 14	50.64	JUNE 18	50.55	JAN. 15, 1969	51.10	MAR. 8, 1977	56.94
DEC. 14	50.60	JULY 15	50.94	FEB. 14	50.84		

TENSAS PARISH

320431091144801 LOCAL WELL NUMBER: TS-8

OWNER: E. R. McDONALD. (SEC. 4, T. 13N., R. 12E.) DRILLED UNUSED SEMIARTESIAN WELL IN THE MISS. RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, DEPTH 110 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 1.0 FT ABOVE LSD.

LSD 79.60 FT ABOVE MSL.

HIGHEST WATER LEVEL 7.00 BELOW LSD, MAR. 31, 1961.

LOWEST WATER LEVEL 17.18 BELOW LSD, DEC. 18, 1956.

RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 9, 1976	14.76	MAR. 9, 1977	11.35	JUNE 1, 1977	11.43	SEP. 7, 1977	13.70

TENSAS PARISH

314827091234001 LOCAL WELL NUMBER: TS-9

OWNER: CHICAGO MILL AND LUMBER CO. (SEC. 37, T. 10N., R. 10E.) DRILLED UNUSED SEMIARTESIAN WELL IN THE MISS. RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN, DEPTH 102 FT, SCREENED INTERVAL UNKNOWN. MP BOTTOM OF 3/4-IN HOLE ON SIDE OF CASING, 0.3 FT ABOVE LSD.

LSD 65.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 0.71 ABOVE LSD, MAY 16, 1973,

LOWEST WATER LEVEL 25.38 BELOW LSD, DEC. 18, 1956.

RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 9, 1976	21.83	MAR. 9, 1977	20.05	JUNE 1, 1977	17.32	SEP. 7, 1977	20.68

UNION PARISH

324417092090001 LOCAL WELL NUMBER: UN-26

OWNER: OLINKRAFT, INC. (SEC. 10, T. 20N., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 8 IN, DEPTH 750 FT, SCREENED 675-750. MP TOP OF 3/4-IN COLLAR, 1.9 FT ABOVE LSD.

LSD 133.92 FT ABOVE MSL.

HIGHEST WATER LEVEL 141.11 BELOW LSD, JULY 26, 1959,

LOWEST WATER LEVEL 174.84 BELOW LSD, MAY 3, 1977.

RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	174.41	MAY 3, 1977	174.84	MAY 20, 1977	173.97	SEP. 6, 1977	174.59
MAR. 15, 1977	173.76						

325028092113301 LOCAL WELL NUMBER: UN-78

OWNER: U. S. GEOL. SURVEY. (SEC. 6, T. 21N., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 727 FT, SCREENED 717-727. MP TOP OF CASING, 1.57 FT ABOVE LSD.

LSD 175.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 178.85 BELOW LSD, MAR. 25, 1969,

LOWEST WATER LEVEL 191.52 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1969-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	190.87	MAY 3	190.83	SEP. 6, 1977	191.52		

324955092084001 LOCAL WELL NUMBER: UN-79

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 21N., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 749 FT, SCREENED 739-749. MP TOP OF BUSHING, 3.4 FT ABOVE LSD.

LSD 118.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 134.31 BELOW LSD, MAY 13, 1969,

LOWEST WATER LEVEL 142.81 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	142.34	MAY 3	142.18	SEP. 6, 1977	142.81		

324917092242001 LOCAL WELL NUMBER: UN-80

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 21N., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 710 FT, SCREENED 700-710. MP TOP OF CASING, 3.75 FT ABOVE LSD.

LSD 190.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 183.65 BELOW LSD, OCT. 8, 1968,

LOWEST WATER LEVEL 204.53 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	203.54	MAY 3, 1977	203.61	MAY 17, 1977	204.14	SEP. 6, 1977	204.53
MAR. 16, 1977	203.38						

GROUND-WATER LEVELS

UNION PARISH

324917092242002 LOCAL WELL NUMBER: UN-81

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 21N., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 495 FT, SCREENED 485-495. MP TOP OF CASING, 3.83 FT ABOVE LSD.

LSD 190.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 182.27 BELOW LSD, MAR. 2, 1970,

LOWEST WATER LEVEL 205.32 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	204.19	MAY 3, 1977	204.09	MAY 17, 1977	204.67	SEP. 6, 1977	205.32
MAR. 16, 1977	204.22						

325550092391601 LOCAL WELL NUMBER: UN-82

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 22N., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 656 FT, SCREENED 646-656. MP TOP OF CASING, 1.25 FT ABOVE LSD.

LSD 122.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 117.57 BELOW LSD, SEP. 9, 1968,

LOWEST WATER LEVEL 143.30 BELOW LSD, SEP. 7, 1976.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	142.03	MAY 3, 1977	138.14	JUNE 7, 1977	140.73	SEP. 6, 1977	141.04
MAR. 16, 1977	141.61						

325550092391602 LOCAL WELL NUMBER: UN-83

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 22N., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 326 FT, SCREENED 316-326. MP TOP OF CASING, 3.88 FT ABOVE LSD.

LSD 122.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 111.29 BELOW LSD, OCT. 8, 1968,

LOWEST WATER LEVEL 138.78 BELOW LSD, DEC. 14, 1976.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 14, 1976	138.78	MAY 3, 1977	137.72	JUNE 7, 1977	138.14	SEP. 6, 1977	138.16
MAR. 16, 1977	138.41						

325647092241501 LOCAL WELL NUMBER: UN-84

OWNER: U. S. GEOL. SURVEY. (SEC. 30, T. 23N., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 696 FT, SCREENED 686-696. MP TOP OF CASING, 3.0 FT ABOVE LSD.

LSD 210.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 196.09 BELOW LSD, OCT. 17, 1968,

LOWEST WATER LEVEL 214.30 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	213.84	MAY 3	213.92	SEP. 6, 1977	214.30		

325938092203901 LOCAL WELL NUMBER: UN-85

OWNER: U. S. GEOL. SURVEY. (SEC. 11, T. 23N., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 407 FT, SCREENED 397-407. MP TOP OF CASING, 2.9 FT ABOVE LSD.

LSD 260.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 179.06 BELOW LSD, OCT. 17, 1968,

LOWEST WATER LEVEL 191.15 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	190.11	MAY 3	189.68	SEP. 6, 1977	191.15		

UNION PARISH

325929092114001 LOCAL WELL NUMBER: UN-86

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 23N., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 655 FT, SCREENED 645-655. MP TOP OF CASING, 1.58 FT ABOVE LSD.

LSD 90.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 69.69 BELOW LSD, NOV. 12, 1968,

LOWEST WATER LEVEL 84.67 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	83.40	MAY 3	82.64	SEP. 6, 1977	84.67		

325929092114002 LOCAL WELL NUMBER: UN-87

OWNER: U. S. GEOL. SURVEY. (SEC. 7, T. 23N., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 283 FT, SCREENED 273-283. MP TOP OF CASING, 4.35 FT ABOVE LSD.

LSD 90.00 FT ABOVE MSL.

HIGHEST WATER LEVEL 24.38 BELOW LSD, DEC. 16, 1968,

LOWEST WATER LEVEL 36.68 BELOW LSD, SEP. 6, 1977.

RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	35.57	MAY 3	35.66	SEP. 6, 1977	36.68		

VERNON PARISH

310343093125901 LOCAL WELL NUMBER: V-104

OWNER: U. S. ARMY, FORT POLK. (SEC. 17, T. 1N., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 8 IN, DEPTH 854 FT, SCREENED 836-854. MP TOP OF CASING, 1.0 FT ABOVE LSD.

LSD 345.80 FT ABOVE MSL.

HIGHEST WATER LEVEL 170.00 BELOW LSD, FEB. 2, 1941,

LOWEST WATER LEVEL 241.70 BELOW LSD, JUNE 30, 1977.

RECORDS AVAILABLE 1941, 1952-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	227.29	JAN. 1, 1977	223.89J	MAR. 25, 1977	227.97	JUNE 25, 1977	236.57
OCT. 10	226.75	JAN. 5	226.18	MAR. 31	228.51	JUNE 30	241.70J
OCT. 15	227.79	JAN. 10	224.74	APR. 5	227.27	JULY 5	237.10
OCT. 20	226.78	JAN. 11	230.61J	APR. 10	227.61	JULY 10	236.80
OCT. 25	225.99	JAN. 15	228.89	APR. 15	228.84	JULY 15	238.38
OCT. 31	225.69	JAN. 20	229.02	APR. 20	228.87	JULY 20	236.29
NOV. 2	231.07J	JAN. 25	228.89	APR. 25	227.13	JULY 25	236.06
NOV. 5	227.76	JAN. 31	228.42	APR. 30	228.19	JULY 31	235.64
NOV. 10	227.05	FEB. 5	228.28	MAY 5	230.90	AUG. 5	237.76
NOV. 15	226.38	FEB. 10	227.21	MAY 10	232.07	AUG. 10	238.29
NOV. 20	225.85	FEB. 15	226.09	MAY 15	233.42	AUG. 15	237.46
NOV. 25	226.62	FEB. 20	225.69	MAY 20	233.52	AUG. 20	238.64
NOV. 27	225.64J	FEB. 25	225.57	MAY 25	233.43	AUG. 25	238.43
NOV. 30	226.89	FEB. 28	225.03	MAY 31	233.01	AUG. 31	238.02
DEC. 5	225.79	MAR. 5	226.17	JUNE 5	237.00	SEP. 5	238.15
DEC. 10	226.87	MAR. 10	227.20	JUNE 9	236.74H	SEP. 10	237.44
DEC. 15	226.16H	MAR. 15	227.72	JUNE 10	237.80	SEP. 15	236.04
DEC. 20	225.81	MAR. 17	228.15H	JUNE 15	233.90	SEP. 20	235.90
DEC. 25	225.51	MAR. 20	226.83	JUNE 16	233.40J	SEP. 25	236.22
DEC. 31	224.57	MAR. 21	226.35J	JUNE 20	234.52	SEP. 30	236.52H

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, 1.5 FT ABOVE LSD.

LSD 305.30 FT ABOVE MSL.

HIGHEST WATER LEVEL 143.26 BELOW LSD, JULY 10, 1961,

LOWEST WATER LEVEL 194.98 BELOW LSD, SEP. 2, 1977.

RECORDS AVAILABLE 1941, 1943, 1958-61, 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1976	184.63	MAR. 17, 1977	189.43	JUNE 9, 1977	192.36	SEP. 2, 1977	194.98

See footnotes at end of table.

GROUND-WATER LEVELS

VERNON PARISH

310708093100901 LOCAL WELL NUMBER: V-126

OWNER: U. S. ARMY, FORT POLK. (SEC. 27, T. 2N., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 IN, DEPTH 1278 FT, SCREENED 1192-1278. MP TOP OF CASING, 2.0 FT ABOVE LSD.
 LSD 338.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 136.61 BELOW LSD, MAR. 5, 1943,
 LOWEST WATER LEVEL 177.33 BELOW LSD, JAN. 11, 1975.
 RECORDS AVAILABLE 1943, 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	167.11	DEC. 20, 1976	167.12	APR. 30, 1977	167.44	JULY 10, 1977	170.03
OCT. 10	168.87	DEC. 25	167.59	MAY 5	167.75	JULY 15	169.10
OCT. 15	167.65	DEC. 28	165.73J	MAY 10	167.59	JULY 20	169.35
OCT. 20	167.37	DEC. 31	166.59	MAY 15	167.53	JULY 25	169.20
OCT. 25	167.35	JAN. 5, 1977	167.47H	MAY 20	168.53	JULY 31	168.93
OCT. 31	167.03	JAN. 10	166.93	MAY 22	170.15J	AUG. 5	169.32
NOV. 5	166.88	JAN. 15	167.83	MAY 25	168.94	AUG. 10	170.45
NOV. 10	167.03	MAR. 17	167.95H	MAY 31	168.05	AUG. 15	170.05
NOV. 15	167.18	MAR. 20	168.46	JUNE 5	169.22	AUG. 20	170.25
NOV. 20	167.17	MAR. 25	168.45	JUNE 9	168.55H	AUG. 25	170.94
NOV. 25	171.49	MAR. 31	167.98	JUNE 10	169.33	AUG. 31	170.53
NOV. 30	171.42	APR. 5	167.46	JUNE 11	168.32J	SEP. 5	170.08
DEC. 2	174.25J	APR. 10	166.74	JUNE 15	169.41	SEP. 10	170.83
DEC. 5	167.56	APR. 11	166.58J	JUNE 20	169.07	SEP. 15	171.57J
DEC. 10	165.77	APR. 15	167.84	JUNE 25	168.64	SEP. 20	170.51
DEC. 15	167.38H	APR. 20	168.32	JUNE 30	170.37	SEP. 25	169.44
DEC. 16	173.16J	APR. 25	167.84	JULY 5	168.58	SEP. 30	169.97H

311214093323001 LOCAL WELL NUMBER: V-412

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 3N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN, DEPTH 47 FT, SCREENED 42-47. MP TOP OF CASING, 1.0 FT ABOVE LSD.
 LSD 121.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 10.90 BELOW LSD, AUG. 12, 1975,
 LOWEST WATER LEVEL 14.25 BELOW LSD, DEC. 5, 1967.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	12.56	JAN. 31, 1977	13.13	APR. 26, 1977	12.98	JULY 20, 1977	13.33
DEC. 15	13.13	MAR. 16	13.02	JUNE 8	13.26	SEP. 2	13.16

311214093323002 LOCAL WELL NUMBER: V-413

OWNER: U. S. GEOL. SURVEY. (SEC. 25, T. 3N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN, DEPTH 360 FT, SCREENED 355-360. MP TOP OF CASING, 2.7 FT ABOVE LSD.
 LSD 120.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 31.40 ABOVE LSD, MAY 25, 1976,
 LOWEST WATER LEVEL 29.30 ABOVE LSD, JULY 20, 1977, SEP. 2, 1977.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1976	+30.00	JAN. 31, 1977	+30.30	JUNE 8, 1977	+30.10	SEP. 2, 1977	+29.30
DEC. 15	+30.30	MAR. 16	+30.60	JULY 20	+29.30		

311411093323701 LOCAL WELL NUMBER: V-414

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 3N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CATAHOULA FM. OF MIOCENE AGE, DIAM 2 IN, DEPTH 172 FT, SCREENED 167-172. MP TOP OF CASING, 1.2 FT ABOVE LSD.
 LSD 160.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 34.01 BELOW LSD, MAY 19, 1975,
 LOWEST WATER LEVEL 42.07 BELOW LSD, OCT. 28, 1965.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1976	38.49	JAN. 31, 1977	37.12	APR. 26, 1977	36.83	JULY 20, 1977	39.21
DEC. 15	37.58	MAR. 16	36.70	JUNE 8	38.26	SEP. 1	39.56

See footnotes at end of table.

311201093080202 LOCAL WELL NUMBER: V-426

OWNER: U. S. GEOL. 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 CASING, 3.4 FT ABOVE LSD.
 LSD 305.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 112.08 BELOW LSD, NOV. 21, 1969,
 LOWEST WATER LEVEL 128.37 BELOW LSD, NOV. 11, 1976.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	128.37	FEB. 4, 1977	126.43	APR. 26, 1977	125.80	JULY 21, 1977	127.27
DEC. 17	127.56	MAR. 17	128.17	JUNE 9	127.70	SEP. 2	127.34

311544093002501 LOCAL WELL NUMBER: V-427

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 3N., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CATAHOULA FM. OF MIOCENE AGE, DIAM 2 IN, DEPTH 1230 FT, SCREENED 1220-1230 FT. MP TOP OF CASING, 3.85 FT ABOVE LSD.
 LSD 290.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 157.59 BELOW LSD, MAY 2, 1968,
 LOWEST WATER LEVEL 167.25 BELOW LSD, NOV. 11, 1976.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	167.25	FEB. 4, 1977	166.11	APR. 26, 1977	166.36	JULY 21, 1977	166.97
DEC. 17	166.23	MAR. 17	166.13	JUNE 9	166.75	SEP. 2	167.18

311544093002502 LOCAL WELL NUMBER: V-428

OWNER: U. S. GEOL. 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 CASING, 3.9 FT ABOVE LSD.
 LSD 290.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 100.97 BELOW LSD, MAY 2, 1968,
 LOWEST WATER LEVEL 110.40 BELOW LSD, JUNE 9, 1977.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	109.73	FEB. 4, 1977	109.23	MAY 5, 1977	109.31	JULY 21, 1977	110.03
DEC. 17	109.40	MAR. 17	109.07	JUNE 9	110.40	SEP. 2	110.33

310029092583001 LOCAL WELL NUMBER: V-450

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 1S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN BENTLEY FORMATION OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 24 FT, SCREENED 19-24. MP TOP OF 2-IN GALV. PIPE, 1.6 FT ABOVE LSD.
 LSD 224.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 6.18 BELOW LSD, OCT. 24, 1974,
 LOWEST WATER LEVEL 15.94 BELOW LSD, NOV. 11, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	15.94	MAR. 15, 1977	12.07				

305434092595201 LOCAL WELL NUMBER: V-451

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 2S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 163 FT, SCREENED 157-163. MP TOP OF 2-IN GALV. PIPE, 2.4 FT ABOVE LSD.
 LSD 201.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 55.21 BELOW LSD, MAR. 2, 1976,
 LOWEST WATER LEVEL 57.05 BELOW LSD, FEB. 5, 1975.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	55.82	MAR. 15, 1977	56.19				

GROUND-WATER LEVELS

VERNON PARISH

305620092514501 LOCAL WELL NUMBER: V-452

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 1S., R. 5W.) DRILLED OBSERVATION WATER-TABLE WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 128 FT, SCREENED 122-128. MP TOP OF 2-IN GALV. PIPE, 2.0 FT ABOVE LSD.
 LSD 170.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 20.72 BELOW LSD, MAR. 2, 1976,
 LOWEST WATER LEVEL 23.40 BELOW LSD, NOV. 11, 1976.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1976	23.40	MAR. 15, 1977	22.35				

WEBSTER PARISH

325752093271801 LOCAL WELL NUMBER: WB-27

OWNER: SOUTHERN KRAFT CORP. (SEC. 25, T. 23N., R. 11W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 18-12 IN, DEPTH 311 FT, SCREENED 231-311. MP TOP OF CASING, 0.22 FT ABOVE LSD.
 LSD 245.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 52.00 BELOW LSD, OCT. 7, 1937,
 LOWEST WATER LEVEL 169.20 BELOW LSD, OCT. 18, 1947.
 RECORDS AVAILABLE 1937, 1947-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	61.15J	JAN. 25, 1977	59.94	APR. 20, 1977	59.85	JULY 20, 1977	62.79
OCT. 5	61.26	JAN. 31	59.99	APR. 25	60.03	JULY 23	63.40J
OCT. 10	61.39	FEB. 5	60.10	APR. 30	60.34	JULY 25	62.83
OCT. 15	61.60	FEB. 10	60.26	MAY 5	60.23	JULY 31	62.46
OCT. 20	61.39	FEB. 15	60.23	MAY 10	60.51	AUG. 5	62.42
OCT. 24	61.72J	FEB. 20	60.24	MAY 11	61.32J	AUG. 8	62.29J
OCT. 25	61.27	FEB. 25	59.93	MAY 15	60.70	AUG. 10	62.27
NOV. 16	61.71H	FEB. 28	59.93	MAY 20	60.78H	AUG. 15	62.35
DEC. 5	62.46	MAR. 3	59.49J	MAY 21	60.73J	AUG. 20	62.30
DEC. 9	62.69J	MAR. 5	60.14	MAY 25	61.28	AUG. 21	62.87J
DEC. 10	62.27	MAR. 10	59.78	MAY 31	61.05	AUG. 25	62.30
DEC. 15	62.16	MAR. 15	59.98H	JUNE 5	61.42	AUG. 30	62.11
DEC. 20	61.72	MAR. 17	59.65J	JUNE 10	62.34	SEP. 5	62.08
DEC. 25	61.20	MAR. 20	59.77	JUNE 15	62.13	SEP. 7	62.09H
DEC. 31	60.96	MAR. 25	60.48	JUNE 20	62.00	SEP. 10	62.27
JAN. 5, 1977	60.69	MAR. 26	60.53J	JUNE 25	61.82	SEP. 15	62.35
JAN. 9	60.15J	MAR. 31	59.88	JULY 1	62.88J	SEP. 20	62.30
JAN. 10	60.21	APR. 4	60.22H	JULY 5	62.51	SEP. 21	62.87J
JAN. 12	60.37H	APR. 5	60.04	JULY 6	62.58H	SEP. 25	62.30
JAN. 15	59.99	APR. 10	60.09	JULY 10	62.71	SEP. 30	62.11
JAN. 20	60.00	APR. 15	60.34	JULY 15	62.79		

324612093230701 LOCAL WELL NUMBER: WB-96

OWNER: COTTON VALLEY OIL CO. (SEC. 34, T. 21N., R. 10W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 6 IN, DEPTH 89 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 1-IN AIR LINE, 3.0 FT ABOVE LSD.
 LSD 218.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 18.99 BELOW LSD, JULY 16, 1975,
 LOWEST WATER LEVEL 36.18 BELOW LSD, SEP. 11, 1967.
 RECORDS AVAILABLE 1948-67, 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1977	29.77	JUNE 3	30.53	SEP. 2, 1977	32.46		

See footnotes at end of table.

WEBSTER PARISH

323553093141101 LOCAL WELL NUMBER: WB-285

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 19N., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 4-2 IN, DEPTH 608 FT, SCREENED 598-608. MP HOLE IN CASING CAP, 3.85 FT ABOVE LSD.
 LSD 340.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 151.67 BELOW LSD, APR. 14, 1970,
 LOWEST WATER LEVEL 187.99 BELOW LSD, FEB. 16, 1971.
 RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 22, 1975	163.92r	DEC. 12, 1975	167.28r	MAR. 15, 1977	170.89	SEP. 2, 1977	174.95
SEP. 4	169.52r	MAR. 3, 1976	169.19r	MAY 5	169.98	SEP. 7	173.67
SEP. 10	166.73r	SEP. 10	171.88r				

323553093141102 LOCAL WELL NUMBER: WB-286

OWNER: U. S. GEOL. SURVEY. (SEC. 31, T. 19N., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 4-2 IN, DEPTH 558 FT, SCREENED 548-558. MP HOLE IN CASING CAP, 3.91 FT ABOVE LSD.
 LSD 340.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 138.11 BELOW LSD, MAY 20, 1970,
 LOWEST WATER LEVEL 423.09 BELOW LSD, NOV. 30, 1970.
 RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 22, 1975	198.92r	SEP. 10, 1975	213.93r	MAR. 3, 1976	274.44r	MAR. 15, 1977	283.59
SEP. 4	196.53r	DEC. 12	245.24r	SEP. 10	274.23r	SEP. 7	268.18

325200093151701 LOCAL WELL NUMBER: WB-326

OWNER: U. S. GEOL. SURVEY (SEC. 25, T. 22N., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 470 FT, SCREENED 460-470. MP TOP OF CASING, 3.0 FT ABOVE LSD.
 LSD 260.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 106.99 BELOW LSD, JUNE 4, 1976,
 LOWEST WATER LEVEL 108.57 BELOW LSD, SEP. 2, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1977	107.10	MAY 5, 1977	107.42	MAY 20, 1977	107.47	SEP. 2, 1977	108.57

330040093190001 LOCAL WELL NUMBER: WB-338

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 23N., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 425 FT, SCREENED 415-425. MP TOP OF CASING, 3.7 FT ABOVE LSD.
 LSD 230.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 90.38 BELOW LSD, MAR. 15, 1977,
 LOWEST WATER LEVEL 92.85 BELOW LSD, FEB. 21, 1975, SEP. 10, 1976.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1976	91.53	MAY 5, 1977	90.45	JULY 6, 1977	90.93	SEP. 2, 1977	91.33
MAR. 15, 1977	90.38	MAY 20	90.49				

WEST CARROLL PARISH

324508091252301 LOCAL WELL NUMBER: WC-36

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 20N., R. 10E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 4 IN, DEPTH 383 FT, SCREENED 377-383. MP TOP OF CASING COLLAR, 1.1 FT ABOVE LSD.
 LSD 106.35 FT ABOVE MSL.
 HIGHEST WATER LEVEL 28.13 BELOW LSD, MAR. 19, 1963,
 LOWEST WATER LEVEL 32.39 BELOW LSD, MAR. 9, 1971, SEP. 7, 1972.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 24, 1977	30.56	SEP. 2	31.78				

See footnotes at end of table.

GROUND-WATER LEVELS

WINN PARISH

315524092381301 LOCAL WELL NUMBER: W-3

OWNER: CITY OF WINNFIELD. (SEC. 23, T. 11N., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 8 IN, DEPTH APPROX. 120 FT, SCREENED INTERVAL UNKNOWN, MP TOP EDGE OF SHELTER FLOOR, 2.2 FT ABOVE LSD.
 LSD 135.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 14.93 BELOW LSD, MAY 7, 1961,
 LOWEST WATER LEVEL 30.32 BELOW LSD, DEC. 1, 1949.
 RECORDS AVAILABLE 1949, 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 2, 1977	17.44	JUNE 3	17.39	SEP. 6, 1977	17.72		

315525092375601 LOCAL WELL NUMBER: W-16

OWNER: CITY OF WINNFIELD. (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 CASING, AT LSD.
 LSD 135.00 FT ABOVE MSL.
 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
NOV. 22, 1976	74.87	MAY 2, 1977	72.81	JULY 12, 1977	78.97	SEP. 6, 1977	76.89
MAR. 2, 1977	74.36	JUNE 3	78.68				

315450092310102 LOCAL WELL NUMBER: W-144B

OWNER: LA. DEPT. PUBLIC WORKS. (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, 1.0 FT ABOVE LSD.
 LSD 140.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 37.63 BELOW LSD, MAY 2, 1977,
 LOWEST WATER LEVEL 58.33 BELOW LSD, NOV. 5, 1971.
 RECORDS AVAILABLE 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 2, 1977	38.47	MAY 2, 1977	37.63	JUNE 3, 1977	37.64	SEP. 6, 1977	37.82

320619092341601 LOCAL WELL NUMBER: W-156

OWNER: U. S. GEOL. SURVEY. (SEC. 16, T. 13N., R. 2W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN, DEPTH 829 FT, SCREENED 819-829. MP TOP OF CASING, 3.0 FT ABOVE LSD.
 LSD 257.00 FT ABOVE MSL.
 HIGHEST WATER LEVEL 196.18 BELOW LSD, MAR. 25, 1976,
 LOWEST WATER LEVEL 200.25 BELOW LSD, JAN. 21, 1975.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 22, 1976	197.24	MAY 2, 1977	197.07	JULY 12, 1977	197.72	SEP. 6, 1977	197.50
MAR. 2, 1977	197.11	JUNE 3	197.74				

+ Above land-surface datum.

A Well being pumped.

C Nearby wells or wells being pumped.

G Measurement by another agency or reported measurements.

H Tape measurement (recorder).

J Recorder measurement for a time other than noon.

r Revision.



Figure 9. — Location of wells for which water-quality data are included in this report.

QUALITY OF GROUND WATER
CHEMICAL ANALYSIS, OCTOBER 1976 TO SEPTEMBER 1977

LOCAL IDENTIFIER				STATION	NUMBER	GEO-LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
BOSSIER PARISH													
BO- 361	16N	11W	9	322325093302101	112PRIR	84	77-09-08	1400	1280	6.5	20.0	0	
BO- 362A	17N	11W	28	322613093303702	112UPTC	114	77-09-29	1300	239	6.3	21.0	--	
BO- 362B	17N	11W	28	322613093303701	124WLCX	222	77-09-22	1300	415	--	21.5	5	
CATAHOULA PARISH													
CT- 105	10N	6E	24	314954091484601	122CTHL	189	77-02-01	1430	966	--	--	10	
CT- 108	7N	6E	40	313526091504101	122CTHL	780	77-03-15	1415	483	6.6	24.0	20	
CT- 109	7N	6E	40	313525091500601	122CTHL	776	77-03-31	1325	343	6.0	24.0	10	
CLAIBORNE PARISH													
CL- 145	19N	6W	14	323813092572701	124SPRT	610	76-10-20	1300	213	6.9	23.5	0	
EAST CARROLL PARISH													
EC- 162A	20N	12E	20	324159091161202	124CKKF	255	76-10-29	1300	619	7.4	20.0	0	
EC- 162B	20N	12E	20	324159091161201	124CKKF	338	76-10-25	1250	935	7.2	21.0	0	
EVANGELINE PARISH													
EV- 747	2S	2E	35	305045092151802	121EVGL	--	76-11-22	1330	1530	7.1	--	25	
GRANT PARISH													
G- 397	7N	2W	17	313501092355301	112UPTC	150	77-05-24	1205	87	5.9	20.0	0	
G- 398	7N	2W	4	313715092342701	112UPTC	104	77-06-02	1155	37	5.5	19.0	5	
G- 399	7N	3W	7	313541092363701	112UPTC	79	77-06-10	1600	34	4.6	--	5	
LA SALLE PARISH													
LA- 225	7N	3E	22	313351092090001	112PRIR	42	76-11-17	1200	4450	3.1	--	0	
					112PRIR	42	77-01-05	1300	4190	4.6	--	0	
					112PRIR	42	77-06-30	1230	4070	4.8	--	5	
LA- 247	7N	3E	16	310949092094101	122CTHL	296	76-12-14	1245	93	6.1	21.5	15	
LINCOLN PARISH													
L- 151	18N	3W	35	322949092283701	124SPRT	700	77-09-26	1100	408	7.2	26.0	--	
MOREHOUSE PARISH													
MO- 371A	22N	7E	16	325406091451903	124CKKF	130	76-10-15	1400	388	6.7	19.5	0	
MO- 371B	22N	7E	16	325406091451902	124SPRT	560	76-10-07	1300	1510	9.3	22.5	25	
MO- 372	22N	7E	5	325518091461401	124CKKF	182	76-11-03	1430	328	6.8	20.0	0	
MO- 376	22N	7E	5	325528091461401	112UPTC	80	76-11-04	1600	106	--	--	5	
NATCHITOCHES PARISH													
NA- 461	9N	7W	87	314329093062801	124CRVR	149	77-04-05	--	839	--	--	10	
RAPIDES PARISH													
R- 783	5N	3E	5	312526092104602	112UPTC	96	77-03-09	1200	4940	6.7	--	5	
R- 987	3N	1W	18	311349092293501	112RRVA	108	77-04-05	1115	1490	7.1	19.0	--	
					112RRVA	108	77-07-20	--	1520	6.8	20.0	5	
R- 988	3N	1W	18	311349092293502	112RRVA	64	77-04-05	1200	1800	6.8	--	--	
					112RRVA	64	77-07-20	--	1820	6.9	--	--	
R- 989	3N	1W	18	311352092293201	112RRVA	97	77-04-05	1030	1530	7.0	19.0	--	
					112RRVA	97	77-07-20	--	1560	6.7	20.5	10	
R- 990	3N	1W	18	311352092293202	112RRVA	43	77-04-05	0930	3890	7.1	--	5	
					112RRVA	43	77-07-20	--	3750	6.8	--	15	
R- 991	3N	1W	18	311351092294001	112RRVA	76	77-03-29	1625	1560	6.4	--	--	
R- 991	3N	1W	18	311351092294001	112RRVA	76	77-07-20	--	1540	6.8	--	5	
R- 992	3N	1W	18	311351092294002	112RRVA	108	77-03-29	1310	1470	6.7	--	--	
					112RRVA	108	77-07-20	--	1460	6.8	--	--	

Geological unit (aquifer):

- 112PRIR - Prairie Formation, Pleistocene age.
- 112RRVA - Red River alluvial aquifer, Pleistocene age.
- 112UPTC - Upland terrace deposits, Pleistocene age.
- 121EVGL - Evangeline aquifer, Plio-miocene age.
- 122CTHL - Catahoula Formation, Miocene age.

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	
BOSSIER PARISH--Continued											
BO- 361	16N 11W 9	77-09-08	440	310	120	36	70	25	1.4	1.7	155
BO- 362A	17N 11W 28	77-09-29	78	0	16	9.2	--	--	--	--	116
BO- 362B	17N 11W 28	77-09-22	130	0	34	12	--	--	--	1.2	240
CATAHOULA PARISH--Continued											
CT- 105	10N 6E 24	77-02-01	9	0	3.6	.0	210	97	30	4.7	314
CT- 108	7N 6E 40	77-03-15	5	0	2.0	.0	92	96	18	2.2	142
CT- 109	7N 6E 40	77-03-31	5	0	1.9	.0	76	96	15	2.3	150
CLAIBORNE PARISH--Continued											
CL- 145	19N 6W 14	76-10-20	19	0	6.1	.9	38	78	3.8	3.5	102
EAST CARROLL PARISH--Continued											
EC- 162A	20N 12E 20	76-10-29	210	0	56	17	55	36	1.7	5.3	348
EC- 162B	20N 12E 20	76-10-25	300	0	80	23	87	39	2.2	3.4	425
EVANGELINE PARISH--Continued											
EV- 747	2S 2E 35	76-11-22	71	0	20	5.1	320	90	17	3.2	645
GRANT PARISH--Continued											
G- 397	7N 2W 17	77-05-24	18	0	6.0	.7	8.5	48	.9	1.8	36
G- 398	7N 2W 4	77-06-02	8	0	2.5	.3	3.0	41	.5	1.5	12
G- 399	7N 3W 7	77-06-10	5	0	1.0	.6	2.6	45	.5	1.6	11
LA SALLE PARISH--Continued											
LA- 225	7N 3E 22	76-11-17	170	170	37	19	720	89	24	13	0
		77-01-05	160	160	34	18	750	90	26	11	4
		77-06-30	170	170	40	17	740	89	25	21	6
LA- 247	7N 3E 16	76-12-14	14	0	3.6	1.2	14	66	1.6	1.3	39
LINCOLN PARISH--Continued											
L- 151	18N 3W 35	77-09-26	1	0	.1	.2	--	--	--	1.5	188
MOREHOUSE PARISH--Continued											
MO- 371A	22N 7E 16	76-10-15	180	0	55	11	11	11	.4	1.6	242
MO- 371B	22N 7E 16	76-10-07	5	0	2.0	.0	340	99	66	2.0	452
MO- 372	22N 7E 5	76-11-03	130	0	38	8.0	17	22	.7	1.4	174
MO- 376	22N 7E 5	76-11-04	30	0	8.7	2.0	8.6	38	.7	.6	59
NATCHITOCHES PARISH--Continued											
NA- 461	9N 7W 87	77-04-05	16	0	5.8	.4	200	96	22	2.0	524
RAPIDES PARISH--Continued											
R- 783	5N 3E 5	77-03-09	660	240	150	68	770	71	13	17	512
R- 987	3N 1W 18	77-04-05	680	80	--	--	--	--	--	--	732
		77-07-20	680	--	170	62	71	18	1.2	4.2	--
R- 988	3N 1W 18	77-04-05	850	170	--	--	--	--	--	--	832
		77-07-20	810	--	--	--	84	--	1.3	--	--
R- 989	3N 1W 18	77-04-05	700	0	--	--	--	--	--	--	864
		77-07-20	620	60	160	57	73	20	1.3	3.4	--
R- 990	3N 1W 18	77-04-05	2100	620	480	210	110	10	1.1	2.6	--
		77-07-20	1500	--	220	230	230	25	2.6	4.2	--
R- 991	3N 1W 18	77-03-29	700	73	--	--	--	--	--	--	764
R- 991	3N 1W 18	77-07-20	680	--	160	67	56	15	.9	2.5	--
R- 992	3N 1W 18	77-03-29	660	0	--	--	--	--	--	--	864
		77-07-20	700	0	--	--	--	--	--	--	1000

Geological unit (aquifer)--Continued

- 124CCKF - Cockfield Formation, Eocene age.
- 124CRVR - Cane River Formation, Eocene age.
- 124SPRT - Sparta Sand, Eocene age.
- 124WLCX - Wilcox Group - Eocene age.

LOCAL IDENT- I- FIER	DATE OF SAMPLE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
BOSSIER PARISH--Continued									
BO- 361 16N 11W 9	77-09-08	0	127	78	11	320	.2	23	651
BO- 362A 17N 11W 28	77-09-29	0	95	93	4.2	18	.1	40	155
BO- 362B 17N 11W 28	77-09-22	0	197	--	2.8	20	.0	28	230
CATAHOULA PARISH--Continued									
CT- 105 10N 6E 24	77-02-01	0	258	--	.6	160	.0	23	541
CT- 108 7N 6E 40	77-03-15	0	116	57	18	52	.2	19	295
CT- 109 7N 6E 40	77-03-31	0	123	240	3.6	26	.3	47	239
CLAIBORNE PARISH--Continued									
CL- 145 19N 6W 14	76-10-20	0	84	21	20	3.1	.2	35	172
EAST CARROLL PARISH--Continued									
EC- 162A 20N 12E 20	76-10-29	0	285	22	24	14	.1	26	322
EC- 162B 20N 12E 20	76-10-25	0	349	43	6.0	100	.0	30	520
EVANGELINE PARISH--Continued									
EV- 747 2S 2E 35	76-11-22	0	529	82	.0	190	.4	34	903
GRANT PARISH--Continued									
G- 397 7N 2W 17	77-05-24	0	30	73	6.0	3.2	.0	22	85
G- 398 7N 2W 4	77-06-02	0	10	61	.0	3.2	.0	18	33
G- 399 7N 3W 7	77-06-10	0	9	442	.8	3.4	.3	15	35
LA SALLE PARISH--Continued									
LA- 225 7N 3E 22	76-11-17	0	0	.0	3.2	1200	.1	21	2200
	77-01-05	0	3	161	4.2	1300	.0	21	2170
	77-06-30	0	5	152	4.2	1300	.1	21	2290
LA- 247 7N 3E 16	76-12-14	0	32	50	9.0	2.9	.1	51	114
LINCOLN PARISH--Continued									
L- 151 18N 3W 35	77-09-26	0	154	19	8.8	32	.2	28	274
MOREHOUSE PARISH--Continued									
MO- 371A 22N 7E 16	76-10-15	0	198	77	.2	7.0	.3	35	244
MO- 371B 22N 7E 16	76-10-07	20	404	.4	1.0	260	.6	12	842
MO- 372 22N 7E 5	76-11-03	0	143	44	2.2	18	.4	35	202
MO- 376 22N 7E 5	76-11-04	0	48	--	.0	3.6	.2	52	100
NATCHITOCHES PARISH--Continued									
NA- 461 9N 7W 87	77-04-05	0	430	--	11	12	.4	16	520
RAPIDES PARISH--Continued									
R- 783 5N 3E 5	77-03-09	0	420	163	5.6	1400	.0	27	2740
R- 987 3N 1W 18	77-04-05	0	600	93	160	130	--	--	--
	77-07-20	0	--	--	99	120	.3	21	845
R- 988 3N 1W 18	77-04-05	0	682	211	160	160	--	--	--
	77-07-20	--	--	--	170	160	--	--	--
R- 989 3N 1W 18	77-04-05	0	709	138	63	110	--	--	--
	77-07-20	--	560	218	59	100	.5	21	853
R- 990 3N 1W 18	77-04-05	--	1440	224	460	420	.1	27	2470
	77-07-20	0	--	--	200	450	.0	26	2030
R- 991 3N 1W 18	77-03-29	0	627	487	93	120	--	--	--
R- 991 3N 1W 18	77-07-20	0	--	--	95	130	.4	18	964
R- 992 3N 1W 18	77-03-29	0	709	276	53	78	--	--	--
	77-07-20	--	820	254	53	82	--	--	--

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	TOTAL NITRATE (NO3) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
BOSSIER PARISH--Continued					
BO- 361 16N 11W 9	77-09-08	653	.14	70	0
BO- 362A 17N 11W 28	77-09-29	--	--	6300	--
BO- 362B 17N 11W 28	77-09-22	--	.00	550	62
CATAHOULA PARISH--Continued					
CT- 105 10N 6E 24	77-02-01	552	.04	0	30
CT- 108 7N 6E 40	77-03-15	256	.34	750	50
CT- 109 7N 6E 40	77-03-31	231	.13	410	0
CLAIBORNE PARISH--Continued					
CL- 145 19N 6W 14	76-10-20	157	.21	450	60
EAST CARROLL PARISH--Continued					
EC- 162A 20N 12E 20	76-10-29	371	3.0	900	140
EC- 162B 20N 12E 20	76-10-25	545	2.0	2600	410
EVANGELINE PARISH--Continued					
EV- 747 2S 2E 35	76-11-22	892	.27	590	37
GRANT PARISH--Continued					
G- 397 7N 2W 17	77-05-24	66	.00	30	0
G- 398 7N 2W 4	77-06-02	35	.27	40	12
G- 399 7N 3W 7	77-06-10	30	.07	80	10
LA SALLE PARISH--Continued					
LA- 225 7N 3E 22	76-11-17	2060	.32	1600	4900
	77-01-05	2180	.12	27000	5000
	77-06-30	2190	6.7	33000	4800
LA- 247 7N 3E 16	76-12-14	104	1.6	300	56
LINCOLN PARISH--Continued					
L- 151 18N 3W 35	77-09-26	--	.13	180	10
MOREHOUSE PARISH--Continued					
MO- 371A 22N 7E 16	76-10-15	240	.11	3400	220
MO- 371B 22N 7E 16	76-10-07	860	.21	120	20
MO- 372 22N 7E 5	76-11-03	206	.00	860	200
MO- 376 22N 7E 5	76-11-04	107	2.3	240	0
NATCHITOCHES PARISH--Continued					
NA- 461 9N 7W 87	77-04-05	504	.24	120	0
RAPIDES PARISH--Continued					
R- 783 5N 3E 5	77-03-09	2700	.00	5300	170
R- 987 3N 1W 18	77-04-05	--	--	14000	1100
	77-07-20	--	.07	13000	1500
R- 988 3N 1W 18	77-04-05	--	--	6600	3100
	77-07-20	--	--	6400	--
R- 989 3N 1W 18	77-04-05	--	--	9600	2500
	77-07-20	810	.04	9300	2300
R- 990 3N 1W 18	77-04-05	2580	.13	10000	4300
	77-07-20	--	.19	7600	2600
R- 991 3N 1W 18	77-03-29	--	--	11000	3400
R- 991 3N 1W 18	77-07-20	--	.03	12000	4100
R- 992 3N 1W 18	77-03-29	--	--	11000	1100
	77-07-20	--	--	12000	1100

QUALITY OF GROUNDWATER
MINOR ELEMENTS, OCTOBER 1976 TO SEPTEMBER 1977

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	BROMIDE (BR) (MG/L)	IODIDE (I) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
LA SALLE PARISH										
LA- 225	7N 3E 22	313351092090001	76-11-17 77-01-05	4.2 --	.15 --	-- --	-- --	-- --	-- 1	-- --
RAPIDES PARISH										
R- 783	5N 3E 5	312526092104602	77-03-09	3.2	.38	0	0	1	1	1000

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)
LA SALLE PARISH										
LA- 225	7N 3E 22	76-11-17 77-01-05	-- --	-- 5	-- --	-- 6	-- 0	-- --	-- --	-- 20
RAPIDES PARISH										
R- 783	5N 3E 5	77-03-09	7	7	20	0	--	0	0	3

LOCAL IDENT- I- FIER	DATE OF SAMPLE	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)
LA SALLE PARISH										
LA- 225	7N 3E 22	76-11-17 77-01-05	-- --	-- 5	-- --	-- --	-- .0	-- --	-- --	-- --
RAPIDES PARISH										
R- 783	5N 3E 5	77-03-09	0	0	60	.0	.0	2	2	0

LOCAL IDENT- I- FIER	DATE OF SAMPLE	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
LA SALLE PARISH								
LA- 225	7N 3E 22	76-11-17 77-01-05	-- --	-- --	-- 1	-- --	-- 0	-- 2500
RAPIDES PARISH								
R- 783	5N 3E 5	77-03-09	0	0	0	1	0	350

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FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

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

Multiply U.S. customary 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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