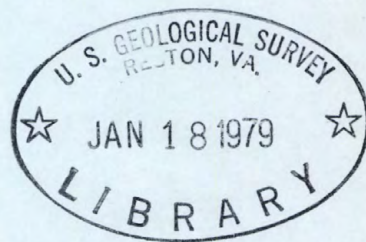


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Water Resources Data for Louisiana

Volume 1. Central and Northern Louisiana



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-78-1
WATER YEAR 1978

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

CALENDAR FOR WATER YEAR 1978

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Water Resources Data for Louisiana

Volume 1. Central and Northern Louisiana

U.S.GEOLOGICAL SURVEY WATER-DATA REPORT LA-78-1

WATER YEAR 1978

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

H. William Menard, 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

1978

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 S. M. Lang, Acting 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 1978 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 76 gaging stations; stage record for 66 of these gaging stations; stage only for 32 gaging stations; contents for 1 reservoir; stage only for 12 lakes; water quality for 147 stations; 22 of these at gaging stations; 80 miscellaneous sites, 10 lakes, and 169 wells; and water levels for 686 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-78-1." 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 Aguiard, 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 82 water-quality stations published in this report.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

The below-median runoff in northern Louisiana experienced during the summer of 1977 continued each month through April 1978. Heavy rainstorms during May produced flows above median for that month but runoff for the remainder of the 1978 water year was again below median. Runoff at the key station in this region was only 52 percent of median.

Runoff over the remainder of the State was well sustained with no unusual events recorded. Runoff in the southwestern section was deficient during the spring and summer months with the key station showing 123 percent normal. No unusual flood events were experienced.

Red River continued its deficient flow conditions with every month in the last two years recording below normal runoff. The average for the 1978 water year was only 43 percent normal.

The lower Mississippi River system (the Mississippi and Atchafalaya Rivers) recorded runoff 15 percent above normal with no unusual flow condition during the year.

Regional water-level declines of 1-3 feet/year were recorded for the Sparta sand in northern Louisiana and 1-2 feet/year for the upper Miocene aquifer in central Louisiana. Water levels in the terrace, alluvial, Wilcox, and Cockfield aquifers were in the normal range, except for local declines in wells in the Wilcox aquifer in northwestern Louisiana.

In southwestern Louisiana, water levels in wells in the Chicot aquifer in the rice irrigation area were generally lower than at the close of the 1977 water year. Water-level changes in key observation wells ranged from zero at Lafayette to a record low (4.3 feet lower than September 1977) in the Iowa area. In the Lake Charles area levels in wells in the Chicot "200-ft" and "700-ft" sands were generally 1-2 feet lower than in September 1977. In contrast, water levels for the Chicot "500-ft" sand were higher by as much as 5 feet. At Opelousas and Eunice, water levels in wells in the Evangeline aquifer reached record lows every month, May-September 1978, and ended the water year 5 feet lower at Opelousas and over a foot lower at Eunice than in September 1977.

In southeastern Louisiana, water levels rose slightly in wells in the Gonzales-New Orleans, Norco, and Gramercy aquifers of the New Orleans area and the "400-ft", "600-ft", "1500-ft", and "2000-ft" sands of the Baton Rouge area. In wells in the "2400-ft" and "2800-ft" sands of the Baton Rouge area, water levels were generally lower than last year and record lows were reached; water levels for the "1200-ft" sand remained about the same.

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.

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 than 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 + 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 + 0.2°C on MFC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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

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

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

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

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 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 on any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are muticelled 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.

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

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

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

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

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.

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

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

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

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

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

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

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

The classification is as follows:

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 O,O-diethyl O- (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 O,O,O',O'-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- $\left\{[(p\text{-chlorophenyl})\text{thio}]\text{methyl}\right\}$ O,O-dimethyl ester.

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

Mirex Dodecachlorooctahydro-1,3,4-methano-2H-cyclobutocd pentalene.

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

Toxaphene chlorinated camphene containing 67 percent chlorine.

Trithion phosphorodithioic acid S- $\left\{[(p\text{-chlorophenyl})\text{thio}]\text{methyl}\right\}$ 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 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 emerged or submersed solid surface, such as a rock or tree, upon which an organism lived.

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

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.

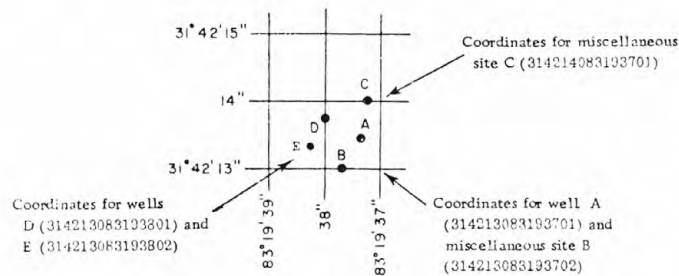


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

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 the 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 referred to National Geodetic Vertical Datum, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 8.

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 National Geodetic Vertical Datum of 1929 (NGVD) is given in the well description. Altitudes with zeros in the tenths and hundredths columns are interpolated from topographic maps and are generally accurate only to about 1-5 feet. 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). Prices are subject to change.

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. \$1.60.
- 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. \$1.00.
- 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. \$0.35.
- 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. \$0.35.
- 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. \$1.40.

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. \$1.20.
- 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. \$2.50.
- 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. \$2.10.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$1.60.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$1.20.
- 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. \$0.65.
- 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. \$1.10.
- 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. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. \$20.00.

See footnote on next page.

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. \$2.10.
- 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. \$1.10.

*This publication is available ONLY from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. It is in looseleaf format and is a subscription item. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requester should emphasize to Superintendent of Documents that this is a subscription item.

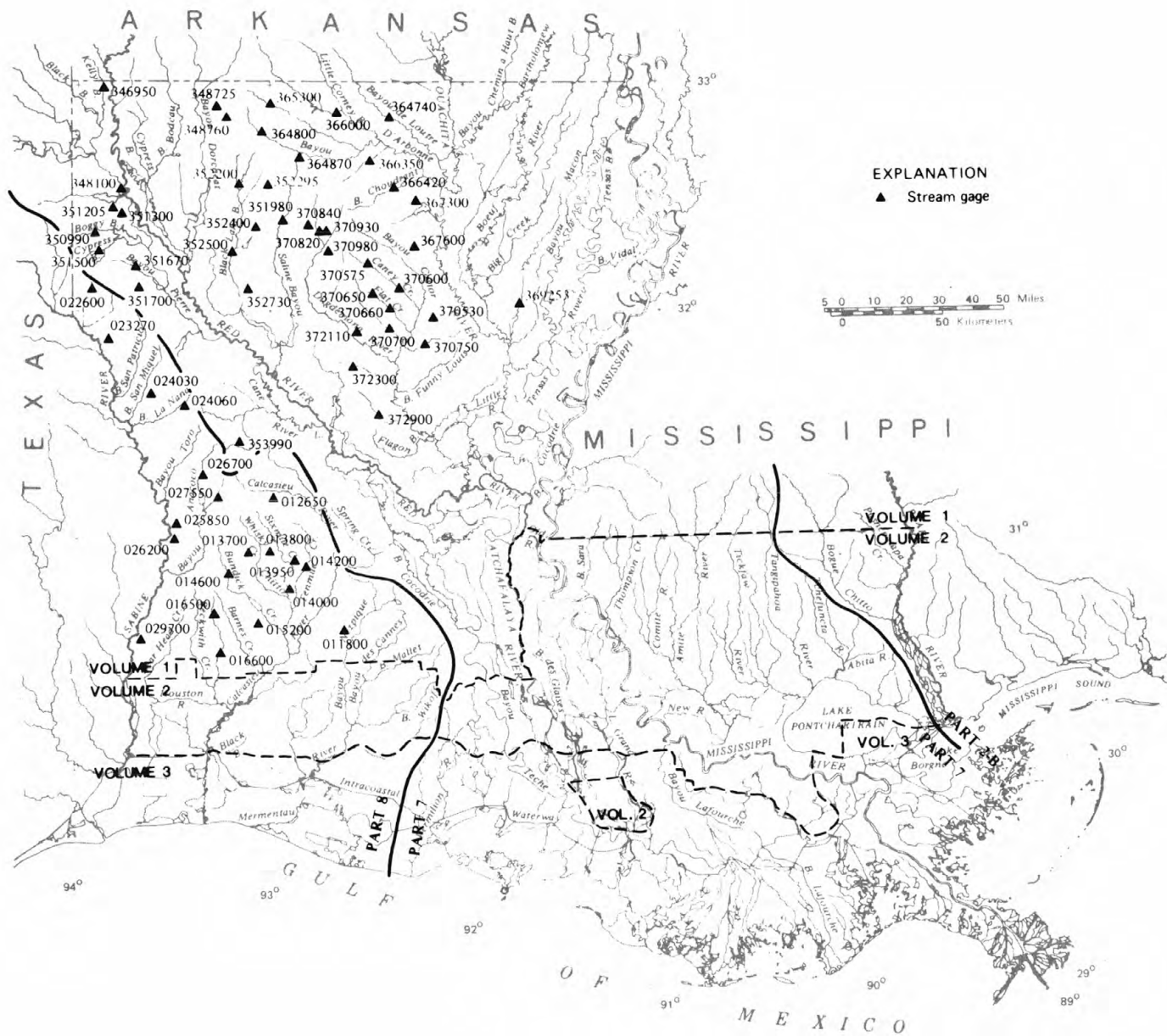
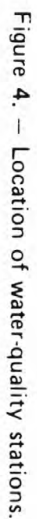


Figure 3. — Location of crest stage stations.



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.--1,140,500 mi² (2,953,900 km²), approximately. The 4,000 mi² (10,400 km²), approximately, in the Great Divide basin in Southern Wyoming is not included.

PERIOD OF RECORD.--Discharge: January 1928 to September 1976. Prior to July 1931, monthly discharge only, published in WSP 1311.

Gage heights: April 1930 to September 1976 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) National Geodetic Vertical Datum of 1929 (Corps of Engineers datum) 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.--48 years, 572,600 ft³/s (16,220 m³/s), 414,849,000 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 1976: Maximum daily discharge, 1,020,000 ft³/s (28,900 m³/s) Mar. 7, maximum gage height, 33.60 ft (10.241 m) Mar. 7 at bridge gage, 32.02 ft (9.760 m) at supplementary recorder; minimum daily discharge, 170,000 ft³/s (4,810 m³/s) Sept. 30; minimum gage height observed, 2.50 ft (0.762 m) Nov. 24 at supplementary recorder.

RECORDS FOR THE 1977-78 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 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	458000	570000	421000	575000	560000	949000	790000	572000	445000	475000	339000	215000
2	465000	538000	414000	579000	577000	961000	808000	587000	429000	471000	350000	219000
3	481000	508000	420000	611000	622000	972000	812000	601000	411000	462000	354000	225000
4	499000	482000	429000	648000	660000	983000	820000	618000	416000	456000	349000	237000
5	503000	461000	433000	691000	691000	992000	827000	637000	430000	459000	338000	235000
6	495000	441000	439000	737000	717000	1010000	831000	655000	454000	467000	325000	230000
7	478000	424000	489000	775000	728000	1020000	839000	662000	482000	474000	322000	229000
8	450000	411000	527000	808000	731000	1010000	842000	651000	501000	483000	320000	233000
9	418000	401000	561000	834000	732000	990000	841000	631000	518000	495000	318000	221000
10	390000	390000	621000	858000	719000	960000	831000	613000	529000	509000	312000	209000
11	376000	380000	640000	879000	689000	951000	812000	592000	534000	531000	299000	200000
12	360000	372000	633000	896000	653000	958000	789000	573000	530000	547000	292000	191000
13	349000	369000	610000	911000	613000	961000	766000	557000	519000	542000	277000	182000
14	338000	366000	579000	922000	581000	966000	739000	537000	495000	537000	275000	179000
15	341000	370000	560000	921000	551000	968000	709000	522000	458000	528000	274000	172000
16	352000	371000	549000	901000	525000	959000	676000	514000	420000	518000	273000	174000
17	368000	371000	533000	860000	502000	931000	645000	505000	391000	504000	266000	182000
18	379000	368000	521000	819000	492000	902000	611000	499000	373000	482000	260000	190000
19	381000	371000	511000	772000	499000	870000	572000	492000	365000	467000	255000	199000
20	373000	382000	502000	732000	526000	848000	550000	489000	359000	457000	244000	196000
21	368000	407000	500000	702000	559000	828000	533000	488000	355000	449000	243000	193000
22	376000	433000	517000	679000	601000	811000	521000	488000	352000	440000	249000	191000
23	389000	467000	543000	657000	659000	799000	513000	490000	360000	431000	256000	189000
24	418000	492000	581000	643000	735000	786000	518000	502000	374000	412000	261000	185000
25	485000	498000	595000	636000	806000	774000	526000	510000	391000	391000	263000	186000
26	553000	491000	601000	629000	864000	766000	531000	514000	401000	375000	256000	183000
27	581000	487000	602000	613000	893000	758000	530000	518000	429000	359000	240000	183000
28	596000	476000	598000	596000	913000	750000	525000	504000	454000	342000	234000	180000
29	603000	453000	591000	579000	931000	745000	522000	491000	465000	338000	227000	175000
30	608000	430000	581000	564000	---	751000	555000	478000	472000	332000	221000	170000
31	591000	---	575000	552000	---	769000	---	461000	---	330000	216000	---
TOTAL	13822000	12980000	16676000	22579000	19329000	27698000	20384000	16951000	13112000	14063000	8708000	5953000
MEAN	445900	432700	537900	728400	666500	893500	679500	546800	437100	453600	280900	198400
MAX	608000	570000	640000	922000	931000	1020000	842000	662000	534000	547000	354000	237000
MIN	338000	366000	414000	552000	492000	745000	513000	461000	352000	330000	216000	170000
AC-FT	27420000	25750000	33080000	44790000	38340000	54940000	40430000	33620000	26010000	27890000	17270000	11810000
CAL YR 1975	TOTAL	283335000	MEAN	776300	MAX	1840000	MIN	303000	AC-FT	562000000		
WTR YR 1976	TOTAL	192255000	MEAN	525300	MAX	1020000	MIN	170000	AC-FT	381300000		

MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--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	15.30	20.70	14.40	19.80	18.80	32.10	28.60	19.70	15.40	16.80	10.60	3.10
2	15.40	19.80	14.20	20.00	19.50	32.60	29.20	20.00	14.90	16.80	10.80	3.30
3	16.10	18.50	14.00	20.90	20.50	33.00	29.50	20.60	14.40	16.80	11.00	3.70
4	17.10	17.40	14.50	22.00	21.60	33.20	29.80	21.20	14.40	16.70	10.80	4.20
5	17.60	16.30	14.80	23.40	22.50	33.30	30.00	21.90	15.00	16.90	10.50	4.20
6	17.60	15.40	15.10	24.50	23.40	33.50	30.00	22.50	16.00	17.10	10.10	3.90
7	17.10	15.00	15.90	25.40	24.00	33.60	30.00	22.80	16.70	17.50	9.90	3.80
8	16.10	14.50	17.50	26.50	24.30	33.40	30.10	23.10	17.60	18.00	9.70	4.00
9	14.90	13.90	19.60	27.30	24.40	33.40	30.10	23.00	18.40	18.80	9.60	3.70
10	13.50	13.40	21.10	28.00	23.90	33.20	29.90	22.50	18.80	19.60	9.40	2.80
11	12.40	13.00	21.90	28.60	23.20	33.10	29.50	22.00	19.00	20.10	9.00	2.50
12	11.60	12.40	21.90	29.30	22.10	33.20	29.00	21.40	18.80	20.20	8.40	2.20
13	10.80	12.20	21.20	29.60	20.90	33.40	28.30	20.80	18.50	20.00	7.50	1.70
14	10.20	12.00	20.40	30.00	19.60	33.40	27.60	20.10	17.80	19.50	6.80	1.30
15	10.30	12.20	19.60	30.00	18.40	33.50	26.70	19.70	16.50	19.00	6.50	1.20
16	11.10	12.30	18.90	29.60	17.40	33.30	25.50	19.50	15.00	18.50	6.40	1.20
17	12.00	12.30	18.60	29.00	16.80	32.80	24.30	19.20	14.00	18.00	6.00	1.20
18	12.30	12.00	18.50	28.20	16.40	32.10	23.00	18.70	13.00	17.40	5.80	1.50
19	12.40	12.10	18.20	26.70	16.40	31.30	21.70	18.20	12.00	17.00	5.70	1.70
20	12.20	12.40	17.80	25.20	17.20	30.50	20.00	17.70	11.20	16.50	5.20	1.40
21	12.00	13.20	17.70	23.80	18.50	30.10	19.30	17.50	11.00	16.10	5.00	1.00
22	12.00	14.70	17.90	22.90	20.20	29.60	18.70	17.50	10.90	15.80	5.30	1.00
23	12.30	16.00	18.50	22.30	22.40	29.10	18.40	17.60	11.00	15.30	5.40	1.00
24	13.60	17.10	19.20	21.80	24.60	28.70	18.60	17.90	11.30	14.50	5.80	.99
25	15.90	17.30	20.30	21.50	26.50	28.30	19.20	18.30	11.60	13.60	5.80	.80
26	18.40	17.00	20.80	21.30	28.20	27.60	19.70	18.70	12.20	12.60	5.80	.70
27	20.30	16.50	20.90	20.80	29.50	27.30	19.60	18.90	13.30	11.80	5.50	.80
28	21.20	16.10	20.80	20.00	30.70	27.10	19.40	18.60	14.70	11.00	4.80	.70
29	21.80	15.20	20.40	19.40	31.50	26.90	19.30	18.00	15.60	10.40	4.20	.40
30	21.90	14.50	20.00	18.80	---	27.00	19.30	17.30	16.40	10.20	3.70	.10
31	21.60	---	19.70	18.40	---	27.70	---	16.40	---	10.40	3.20	---
MEAN	15.06	14.85	18.53	24.35	22.19	31.20	24.81	19.72	14.85	16.22	7.23	2.00
MAX	21.90	20.70	21.90	30.00	31.50	33.60	30.10	23.10	19.00	20.20	11.00	4.20
MIN	10.20	12.00	14.00	18.40	16.40	26.90	18.40	16.40	10.90	10.20	3.20	.10

RED RIVER BASIN

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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 km²) 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) National Geodetic Vertical Datum of 1929 (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, 12.72 ft (3.877 m) Mar. 29; minimum discharge, 1,920 ft³/s (54.4 m³/s) Aug. 16, gage height, 1.45 ft (0.442 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	2210						---	2830	---
2	---	---	---	2200						---	3000	---
3	---	---	---	2360						---	3260	---
4	4780	---	---	3080						---	2980	4120
5	---	---	---	3360						4980	3020	3300
6	4980	---	---	3850						4370	3600	4440
7	4760	---	4540	3560						4140	4000	---
8	4630	---	4200	3160						3760	3780	---
9	4740	---	3460	3200						3810	3620	4520
10	4230	---	3100	3680						3760	3540	3620
11	3500	---	2700	4140						3340	3060	2810
12	3620	---	2700	4140						3000	2680	2540
13	4100	---	2480	3930						2830	2430	2290
14	4390	---	2650	3870						2740	2160	2940
15	4200	---	3740	4120						2750	2030	3420
16	4060	---	4350	4890						2480	1950	3040
17	4160	---	3700	---						2920	2110	2810
18	4500	---	3890	---						3760	3040	3080
19	4590	---	3680	---						4000	3600	2980
20	4370	4740	3260	---						3610	3680	3440
21	4160	4160	2960	---						3640	3080	4160
22	4000	4160	2790	---						3600	3080	4330
23	3910	4370	3020	---						3580	3520	4250
24	3760	4350	2840	---						3260	3560	4080
25	3680	4080	2480	---						3060	3560	3740
26	3660	3740	2230	---						3020	3910	3060
27	3680	3460	2410	---						3220	4080	2940
28	3930	3300	2250	---						3140	4020	3540
29	4810	3280	2210	---						2810	4040	3500
30	---	3950	2200	---						2770	4520	3140
31	---	---	2320	---						2770	---	---
TOTAL	---	---	---	---						---	---	---
MEAN	---	---	---	---						---	---	---
MAX	---	---	---	---						---	---	---
MIN	3500	3280	2200	2200						2480	1950	2290

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.06	3.12	2.93	1.51	5.96	6.66	11.96	5.16	4.74	5.82	1.98	3.53
2	3.28	3.45	3.43	1.50	5.65	6.74	11.50	5.18	3.98	5.66	2.07	3.40
3	2.99	4.20	3.73	1.59	5.54	6.51	10.54	5.11	3.53	5.11	2.20	3.10
4	2.73	4.70	3.72	1.98	5.35	6.20	9.71	5.12	3.63	4.14	2.06	2.66
5	2.84	5.03	4.04	2.12	5.00	5.78	9.08	6.05	4.90	3.48	2.08	2.27
6	2.82	5.00	3.32	2.36	4.70	5.67	8.32	8.48	5.37	3.18	2.37	2.82
7	2.72	4.30	2.68	2.22	4.42	5.81	7.49	11.62	5.52	3.07	2.56	3.18
8	2.66	4.27	2.52	2.02	4.07	5.74	6.75	11.55	4.84	2.88	2.46	3.20
9	2.71	4.47	2.16	2.04	3.67	5.89	6.12	11.45	4.90	2.90	2.38	2.86
10	2.47	4.67	1.98	2.28	3.38	7.41	5.68	11.64	5.81	2.87	2.34	2.42
11	2.12	4.63	1.77	2.50	3.24	9.35	5.88	11.35	7.11	2.65	2.10	2.00
12	2.18	4.23	1.77	2.50	3.25	9.53	5.70	11.13	8.52	2.47	1.89	1.84
13	2.41	3.61	1.66	2.40	3.41	9.71	5.27	10.54	10.72	2.36	1.75	1.70
14	2.55	3.27	1.75	2.37	3.74	9.89	6.00	9.47	11.15	2.29	1.60	2.05
15	2.46	3.18	2.31	2.49	4.35	9.70	7.06	8.82	10.85	2.28	1.52	2.28
16	2.39	3.37	2.60	2.85	4.85	9.36	7.32	8.22	10.94	2.11	1.47	2.09
17	2.44	3.38	2.29	3.81	5.38	8.70	7.62	7.31	10.85	2.33	1.57	1.96
18	2.60	3.18	2.38	4.70	6.24	8.12	7.85	6.15	10.19	2.73	2.08	2.09
19	2.64	3.02	2.28	5.50	7.32	7.46	7.04	5.35	9.50	2.82	2.36	2.03
20	2.54	2.74	2.07	6.15	7.69	7.08	6.55	4.50	8.68	2.71	2.40	2.26
21	2.44	2.48	1.92	5.55	7.38	6.86	6.06	3.95	7.81	2.61	2.10	2.60
22	2.36	2.48	1.83	5.30	7.01	6.69	5.40	3.52	7.55	2.57	2.10	2.67
23	2.32	2.58	1.95	5.28	6.86	6.62	5.06	3.17	7.46	2.54	2.32	2.62
24	2.25	2.57	1.86	5.45	6.75	6.76	4.85	3.35	7.30	2.36	2.34	2.54
25	2.21	2.44	1.66	6.25	6.57	6.60	4.66	3.39	7.22	2.24	2.35	2.37
26	2.20	2.28	1.52	7.00	6.43	7.80	4.68	3.83	7.13	2.20	2.52	2.02
27	2.21	2.14	1.62	7.50	6.47	9.41	5.36	4.38	6.72	2.28	2.61	1.96
28	2.33	2.07	1.53	7.72	6.55	12.19	5.75	4.36	6.21	2.22	2.58	2.25
29	2.75	2.06	1.51	7.38	---	12.68	4.95	4.37	5.99	2.03	2.59	2.22
30	3.00	2.39	1.50	6.78	---	12.42	4.82	4.66	5.90	1.99	2.83	2.03
31	3.06	---	1.57	6.32	---	11.97	---	4.88	---	1.97	3.27	---
MEAN	2.57	3.38	2.25	4.05	5.40	8.11	6.83	6.71	7.17	2.87	2.22	2.43
MAX	3.28	5.03	4.04	7.72	7.69	12.68	11.96	11.64	11.15	5.82	3.27	3.53
MIN	2.12	2.06	1.50	1.50	3.24	5.67	4.66	3.17	3.53	1.97	1.47	1.70

RED RIVER BASIN

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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, 2,030 micromhos June 24, 1978; minimum daily, 152 micromhos May 15, 1961, Dec. 26, 1971.

WATER TEMPERATURES: Maximum daily, 34.0°C July 12, 13, 21, 1969; minimum daily, 0.0°C Feb. 8, 1978.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,030 micromhos June 24; minimum daily, 176 micromhos Apr. 4.

WATER TEMPERATURES: Maximum daily, 32.0°C for several days during July; minimum daily, 0.0°C Feb. 8.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	1140	676	1330	595	512	182	483	930	1980	1500	1170
2	1410	1220	654	1360	573	595	178	523	568	1960	1500	1080
3	1360	1230	614	1360	584	579	186	403	447	1930	1490	1290
4	1520	1130	600	1370	600	723	176	270	396	1870	1520	1440
5	1560	1200	534	1380	588	746	183	250	472	1800	1520	1580
6	1500	1120	540	1470	573	738	221	304	422	1770	1570	1610
7	1630	1020	595	1500	637	654	262	325	273	1700	1470	1610
8	1680	1020	657	1560	713	628	376	372	---	1640	1370	1790
9	1600	1170	701	1550	871	847	414	257	343	1550	1260	1830
10	1570	1250	783	1560	923	480	370	241	346	1580	1490	1780
11	1540	975	837	---	929	383	486	200	1370	1660	1470	1690
12	1450	807	920	---	---	396	469	212	1750	1600	1340	1660
13	1460	764	967	1580	816	370	484	240	1760	1560	1320	1560
14	1350	755	1060	1550	741	302	474	271	1780	1480	1550	1510
15	1200	764	1090	1420	818	308	298	267	1740	1270	1520	1520
16	1100	743	1250	1370	832	264	278	285	1780	1250	1410	1510
17	1070	792	1110	1050	---	227	410	285	1840	1200	1390	1630
18	968	820	1130	---	910	221	418	317	1800	1280	1470	1650
19	961	857	1190	---	894	231	327	345	1690	1360	1450	1650
20	947	994	1210	788	479	269	262	331	1690	1390	1400	1650
21	927	1090	1130	723	348	288	270	436	1730	1730	1550	1790
22	922	1060	1080	645	390	291	390	631	1950	1750	1700	1790
23	891	968	1100	641	413	272	455	743	1960	1710	1650	1820
24	884	944	1120	544	406	258	412	753	2030	1680	1700	1860
25	880	973	1170	549	384	294	375	957	2020	1640	1690	1830
26	871	928	1290	664	409	416	342	944	1980	1610	1900	1770
27	858	956	1300	738	478	282	310	958	1960	1560	1810	1740
28	869	1040	1300	702	459	304	217	745	1940	1530	1920	1740
29	894	1050	1320	686	---	278	231	741	1910	1510	1740	1670
30	986	897	1350	666	---	244	328	748	1970	1430	1710	1680
31	918	---	1310	648	---	209	---	1100	---	1490	1480	---
MONTH	1210	989	987	1090	629	407	326	482	1410	1600	1540	1630
YEAR	MAX	2030	MIN	176	MEAN	1030						

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, LA--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	9.0	6.5	2.0	6.5	14.5	---	28.0	31.5	30.0	27.0
2	25.5	---	9.5	6.5	---	5.0	17.0	---	28.0	---	30.0	26.5
3	24.0	18.5	---	6.5	---	4.5	17.5	16.5	28.0	---	30.0	28.5
4	23.0	18.5	---	8.0	3.5	4.0	19.0	16.5	28.0	31.0	29.0	29.5
5	22.0	18.5	---	9.0	4.5	---	---	18.5	29.0	31.5	30.5	---
6	23.0	---	10.5	11.0	3.0	---	20.0	17.5	---	31.5	29.0	27.0
7	---	19.0	---	---	---	8.5	21.0	---	28.0	31.5	28.5	29.0
8	---	---	---	11.0	0.0	---	---	20.0	---	31.5	28.5	29.0
9	22.0	16.0	---	6.5	---	6.5	---	21.0	---	32.0	29.0	29.0
10	---	14.5	8.0	---	4.0	8.5	---	21.5	26.5	---	29.5	29.0
11	19.5	---	---	---	5.0	8.5	---	---	28.0	32.0	30.5	27.0
12	19.0	---	---	---	---	9.0	19.5	22.0	---	32.0	31.0	26.0
13	18.5	13.5	---	---	---	---	---	21.5	26.5	---	27.5	---
14	19.0	14.0	11.0	---	6.0	10.5	20.0	22.0	27.0	---	29.5	27.0
15	---	---	---	---	---	---	20.5	23.5	26.5	30.0	29.0	28.5
16	19.0	---	---	---	5.5	9.0	---	23.0	27.0	31.0	30.5	---
17	---	15.5	12.0	4.0	---	9.5	---	22.0	27.0	31.0	29.5	---
18	19.0	15.0	---	---	---	12.0	20.5	23.0	27.0	31.0	29.5	---
19	20.5	---	13.0	---	4.5	12.0	---	25.0	28.0	31.0	---	29.0
20	20.5	17.0	---	1.0	---	12.5	19.0	26.0	29.0	30.5	30.5	29.5
21	20.5	15.5	---	---	---	14.5	19.0	26.0	29.0	---	30.5	29.0
22	20.5	---	---	1.5	4.5	14.5	---	26.5	29.0	29.0	---	26.5
23	---	14.5	8.0	1.5	---	14.5	21.0	26.5	29.0	---	31.0	27.0
24	---	15.5	9.5	---	6.5	---	21.5	27.0	30.0	30.0	31.0	26.5
25	21.0	---	---	---	---	14.0	---	29.5	30.5	---	31.0	26.0
26	---	---	---	3.5	7.0	8.0	20.0	29.0	30.5	---	---	24.0
27	21.0	---	---	---	---	---	21.0	29.0	30.5	29.5	30.5	24.0
28	20.5	---	---	3.0	7.5	12.0	---	28.0	31.0	30.0	29.0	23.5
29	21.5	---	---	2.0	---	13.5	---	29.0	31.5	31.5	---	23.5
30	---	---	---	---	---	---	---	29.0	31.5	30.5	25.5	24.0
31	---	---	8.0	---	---	14.5	---	29.0	---	30.0	27.0	---
MONTH	---	---	---	---	---	---	---	24.0	28.5	---	29.5	27.0

07344410 RED RIVER ABOVE SHREVEPORT, LA

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 September 1977.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

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

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
12...	1030	1580	8.2	17.5	15	20	--	28	--	760	K60	--
NOV												
17...	1000	744	7.8	16.0	50	40	10.2	56	3.6	K500	K50	2500
DEC												
15...	1230	970	7.6	11.5	30	15	11.4	21	6.5	1000	160	K750
JAN												
25...	1730	557	6.8	3.0	70	80	13.0	35	4.3	1200	S400	--
FEB												
15...	1530	712	7.3	7.0	40	45	12.8	41	4.0	980	K180	400
MAR												
15...	1005	292	7.5	12.0	60	65	10.2	37	--	--	K100	--
APR												
19...	1530	393	7.5	20.0	40	100	9.1	29	3.9	K700	K40	--
MAY												
09...	1200	348	7.4	22.0	60	180	7.8	72	1.2	44000	170	--
JUN												
13...	1420	1690	7.6	28.0	20	230	6.8	31	4.3	--	440	--
JUL												
13...	1100	1620	7.9	32.0	10	10	8.7	45	--	K150000	K80	--
AUG												
08...	1105	1560	8.1	29.0	15	20	8.0	39	5.8	K88000	1000	--
SEP												
07...	0830	1620	7.9	29.0	15	5	7.5	19	4.3	K120	K33	--

DATE	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT												
12...	360	210	95	30	190	53	4.4	5.5	184	0	151	210
NOV												
17...	190	69	54	14	--	--	--	--	150	0	120	79
DEC												
15...	260	61	71	20	--	--	--	--	242	0	200	98
JAN												
25...	120	58	32	8.8	--	--	--	--	76	0	62	59
FEB												
15...	180	88	49	14	--	--	--	--	112	0	92	86
MAR												
15...	81	32	24	5.0	--	--	--	--	59	0	48	32
APR												
19...	100	30	30	6.9	--	--	--	--	85	0	70	41
MAY												
09...	90	33	26	6.0	--	--	--	--	69	0	57	31
JUN												
13...	320	200	110	11	--	--	--	--	146	0	120	240
JUL												
13...	340	220	86	30	--	--	--	--	145	0	120	200
AUG												
08...	320	160	82	28	--	--	--	--	191	0	160	180
SEP												
07...	280	150	74	22	--	--	--	--	151	0	120	170

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

RED RIVER BASIN

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 12...	290	.3	6.7	909	918	1.24	31	<1.0	.00	.01	.01	.52
NOV 17...	110	--	--	--	--	--	42	<1.0	.05	.01	.06	--
DEC 15...	120	--	--	--	--	--	28	<1.0	.03	.00	.03	--
JAN 25...	85	--	--	--	--	--	137	<1.0	.31	.02	.33	--
FEB 15...	120	--	--	--	--	--	128	--	.37	.02	.39	--
MAR 15...	32	--	--	--	--	--	158	<1.0	.25	.02	.27	--
APR 19...	54	--	--	--	--	--	222	--	.06	.03	.09	--
MAY 09...	38	--	--	--	--	--	1640	--	.22	.07	.29	--
JUN 13...	310	--	--	--	--	--	934	--	.39	.01	.40	--
JUL 13...	310	--	--	--	--	--	12	--	.02	.01	.03	--
AUG 08...	290	--	--	--	--	--	57	<1.0	.05	.01	.06	--
SEP 07...	250	--	--	--	--	--	16	<1.0	.00	.00	.00	--

DATE	NITRO- GEN+AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 12...	--	.09	3	1	2	0	0	0	10	10	0	10
NOV 17...	.61	.13	2	1	1	0	0	0	0	0	0	0
DEC 15...	.76	.08	2	1	1	0	0	0	0	0	0	0
JAN 25...	.76	.18	2	1	1	0	0	0	0	0	0	0
FEB 15...	.25	.43	2	1	1	10	0	10	0	0	0	0
MAR 15...	.88	.23	2	1	1	0	0	0	1	0	1	10
APR 19...	.59	.17	2	1	1	0	0	0	0	0	0	10
MAY 09...	.68	.30	3	3	0	0	0	0	1	0	1	10
JUN 13...	.67	.42	5	4	1	0	0	0	1	0	1	30
JUL 13...	.50	.42	3	0	3	--	--	10	1	0	1	0
AUG 08...	.72	.08	3	1	2	10	9	<1	1	0	1	10
SEP 07...	.47	.05	4	2	2	10	10	0	0	0	0	0

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

RED RIVER BASIN

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07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHROMIUM, DIS-SOLVED (UG/L AS CR)	CHROMIUM, HEXAVALENT, DIS- (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT 12...	5	0	<50	<50	0	10	7	3	90	10	<100
NOV 17...	--	0	--	--	--	4	3	1	--	110	3
DEC 15...	--	0	--	--	--	3	2	1	--	60	4
JAN 25...	--	0	--	--	--	8	4	4	--	60	5
FEB 15...	--	0	--	--	--	9	7	2	--	30	6
MAR 15...	--	0	--	--	--	8	5	3	--	90	9
APR 19...	--	0	--	--	--	14	9	5	--	30	8
MAY 09...	--	0	--	--	--	16	9	7	--	60	9
JUN 13...	--	0	--	--	--	24	20	4	--	10	16
JUL 13...	--	0	--	--	--	14	6	8	--	40	16
AUG 08...	--	0	--	--	--	5	1	4	--	<10	12
SEP 07...	--	0	--	--	--	5	2	3	--	20	0

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOVERABLE (UG/L AS MN)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)
OCT 12...	<99	1	130	110	20	.0	.0	.0	<50	<49	1	0
NOV 17...	3	0	--	--	--	.0	.0	.0	5	5	0	0
NOV 17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	3	1	--	--	--	.0	.0	.0	10	9	1	0
JAN 25...	3	2	--	--	--	.0	.0	.0	11	10	1	1
FEB 15...	6	0	--	--	--	.0	.0	.0	10	10	0	0
MAR 15...	5	4	--	--	--	.0	.0	.0	7	5	2	0
APR 19...	6	2	--	--	--	.0	.0	.0	4	3	1	0
MAY 09...	6	3	--	--	--	.0	.0	.0	15	13	2	0
MAY 09...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 13...	15	1	--	--	--	.1	.1	.0	23	21	2	0
JUL 13...	9	7	--	--	--	.1	.1	.0	7	1	6	0
AUG 08...	12	0	--	--	--	.0	.0	.0	5	2	3	0
SEP 07...	0	0	--	--	--	.0	.0	.0	0	0	0	0

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

RED RIVER BASIN

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 12...	0	0	--	--	--	40	4.2	.00	2	0	.0	0
NOV 17...	0	0	.2	10	0	10	6.1	.00	4	0	.0	--
17...	--	--	--	--	--	--	--	--	--	--	ND	--
DEC 15...	0	0	--	20	10	10	5.8	.00	2	0	.0	--
JAN 25...	1	0	1.0	20	10	10	14	.00	6	0	.0	0
FEB 15...	0	0	--	20	10	10	7.0	.00	3	0	.0	--
MAR 15...	0	0	1.0	20	10	10	8.7	.00	4	0	.0	--
APR 19...	0	0	1.0	20	10	10	8.4	.00	2	0	.0	0
MAY 09...	0	0	1.0	40	30	10	21	.00	0	0	.0	--
09...	--	--	--	--	--	--	--	--	--	--	ND	--
JUN 13...	0	0	--	80	60	20	12	.00	6	0	.0	--
JUL 13...	0	0	--	30	10	20	9.1	.00	0	0	.0	0
AUG 08...	0	0	--	10	5	5	9.1	.00	2	0	.0	--
SEP 07...	0	0	--	20	10	10	7.8	.00	1	0	.0	--

DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ATRA- ZINE, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)
OCT 12...	.00	--	.000	.0	--	.0	0	.000	.6	.000	2.6	.000
NOV 17...	.00	--	.000	--	--	.0	--	.000	--	.002	--	.000
17...	--	--	ND	--	ND	ND	--	ND	--	ND	--	ND
DEC 15...	.00	--	.000	--	--	.0	--	.000	--	.000	--	.000
JAN 25...	.00	.0	.000	.0	--	.0	0	.000	.4	.009	1.5	.016
FEB 15...	.00	--	.000	--	--	.0	--	.000	--	.004	--	.011
MAR 15...	.00	--	.000	--	--	.0	--	.000	--	.000	--	.000
APR 19...	.00	.0	.000	.0	--	.0	0	.000	.8	.002	2.3	.000
MAY 09...	.00	--	.000	--	--	.0	--	.000	--	.004	--	.003
09...	--	--	ND	--	--	ND	--	ND	--	ND	--	ND
JUN 13...	.00	--	.000	--	--	.0	--	.000	--	.003	--	.000
JUL 13...	.00	.0	.000	.0	--	.0	0	.000	.0	.006	.0	.006
AUG 08...	.00	--	.000	--	--	.0	--	.000	--	.000	--	.005
SEP 07...	.00	--	.000	--	--	.0	--	.000	--	.000	--	.000

ND Material specifically analyzed for but not detected.

RED RIVER BASIN

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07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 12...	.0	.00	.0	.000	.0	.000	.000	.0	.00	.0	.000	.0
NOV 17...	--	.00	--	.000	--	.000	.000	--	.00	--	.000	--
DEC 17...	--	ND	--	ND	--	ND	ND	--	ND	--	ND	--
DEC 15...	--	.01	--	.000	--	.000	.000	--	.00	--	.000	--
JAN 25...	.5	.00	.0	.000	.0	.000	.000	.0	.00	.0	.000	.0
FEB 15...	--	.00	--	.000	--	.000	.000	--	.00	--	.000	--
MAR 15...	--	.00	--	.000	--	.000	.000	--	.00	--	.000	--
APR 19...	1.7	.00	.0	.000	.0	.000	.000	.0	.00	.0	.000	.0
MAY 09...	--	.00	--	.000	--	.000	.000	--	.00	--	.000	--
MAY 09...	--	ND	--	ND	--	ND	ND	--	ND	--	ND	--
JUN 13...	--	.00	--	.000	--	.000	.000	--	.00	--	.000	--
JUL 13...	.0	.01	.0	.000	.0	.058	.000	.0	.00	.0	.000	.0
AUG 08...	--	.00	--	.004	--	.000	.000	--	.00	--	.000	--
SEP 07...	--	.00	--	.001	--	--	.000	--	.00	--	.000	--

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)
OCT 12...	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00	.0
NOV 17...	.000	--	.000	--	.00	--	.00	.00	--	.00	--
DEC 17...	ND	--	ND	--	ND	--	ND	ND	--	ND	--
DEC 15...	.000	--	.000	--	.00	--	.00	.00	--	.00	--
JAN 25...	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00	.0
FEB 15...	.000	--	.000	--	.00	--	.00	.00	--	.00	--
MAR 15...	.000	--	.000	--	.00	--	.00	.00	--	.00	--
APR 19...	.000	.0	.002	.0	.00	.0	.00	.00	.0	.00	.0
MAY 09...	.000	--	.000	--	.00	--	.00	.00	--	.00	--
MAY 09...	ND	--	ND	--	ND	--	ND	ND	--	ND	--
JUN 13...	.000	--	.000	--	.00	--	.00	.00	--	.00	--
JUL 13...	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00	.0
AUG 08...	.000	--	.000	--	.00	--	.00	.00	--	.00	--
SEP 07...	.000	--	.000	--	.00	--	.00	.00	--	.00	--

ND Material specifically analyzed for but not detected.

RED RIVER BASIN

07344410 RED RIVER ABOVE SHREVEPORT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	SIMA- ZINE TOTAL COUL- SON COND. (UG/L)
OCT 12...	.00	.00	.0	0.0	0	.00	.0	.00	.00	.00	--
NOV 17...	.00	.00	--	0.0	--	.00	--	.00	.00	.00	--
17...	--	ND	--	ND	--	ND	--	ND	ND	ND	ND
DEC 15...	.00	.00	--	0.0	--	.00	--	.00	.00	.00	--
JAN 25...	.00	.00	.0	0.0	0	.00	.0	.00	.01	.00	--
FEB 15...	.00	.00	--	0.0	--	.00	--	.03	.01	.00	--
MAR 15...	.00	.00	--	0.0	--	.00	--	.02	.01	.00	--
APR 19...	.00	.00	.0	0.0	0	.00	.0	.01	.00	.00	--
MAY 09...	.00	.00	--	0.0	--	.00	--	.03	.01	.00	--
09...	--	ND	--	ND	--	ND	--	--	--	--	--
JUN 13...	.00	.00	--	0.0	--	.00	--	.04	.01	.00	--
JUL 13...	.00	.01	.0	0.0	0	.00	.0	.00	.00	.00	--
AUG 08...	.00	.00	--	0.0	--	.00	--	.02	.15	.00	--
SEP 07...	.00	.00	--	0.0	--	.00	--	.01	.02	.00	--

ND Material specifically analyzed for but not detected.

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.--80.5 mi² (208 km²), revised.

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

GAGE.--Water-stage recorder. Datum of gage is 170.35 ft (51.923 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Records of dissolved oxygen and water temperatures for the water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--23 years, 60.6 ft³/s (1.716 m³/s), 10.55 in/yr (268 mm/yr), 43,900 acre-ft/yr (54.1 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 discharge above base of 1,200 ft³/s (34 m³/s), no peak above the base. Maximum discharge, 334 ft³/s (9.46 m³/s) May 8, gage height, 7.57 ft (2.307 m); minimum, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	.05	.07	17	7.8	6.3	.43	.21	0	.37	0
2		0	.04	.06	44	8.5	5.4	.38	.21	0	.16	0
3		0	.04	.05	32	8.0	4.6	2.2	.17	0	.07	0
4		0	.04	.07	17	7.2	3.9	3.8	.15	0	.01	0
5		0	.03	.07	11	6.2	3.5	5.4	.15	0	0	0
6		0	.02	.07	7.8	5.3	3.2	4.6	.15	0	0	0
7		0	.02	.08	6.1	12	3.0	218	.17	0	0	0
8		0	.04	.10	4.9	83	2.7	314	.12	0	0	0
9		0	.05	.07	4.4	55	2.5	159	.08	0	0	0
10		0	.04	.62	4.1	26	8.5	35	.04	0	0	0
11		0	.04	1.1	4.0	17	50	15	.03	0	0	0
12		0	.04	1.2	5.8	12	28	35	.02	0	0	0
13		0	2.2	1.2	51	10	14	76	.01	0	0	0
14		0	7.5	2.4	81	11	8.4	45	0	0	0	0
15		0	13	2.4	36	15	5.6	21	0	0	0	1.4
16		0	8.4	4.3	18	14	4.3	10	0	0	0	2.3
17		0	4.7	35	13	9.8	4.9	6.0	0	0	0	1.2
18		0	2.9	37	35	7.2	30	4.2	0	0	0	.46
19		0	2.2	15	55	5.7	45	3.2	0	0	0	.18
20		0	1.3	12	32	4.8	18	2.7	0	0	0	.08
21		0	.81	11	18	4.7	9.1	2.3	0	0	0	.03
22		0	.35	7.5	12	4.8	5.8	2.0	0	0	0	0
23		0	.24	5.6	9.1	4.8	4.2	1.7	0	0	0	0
24		0	.16	39	7.2	32	3.2	1.4	0	0	0	0
25		0	.11	122	6.2	127	2.6	1.1	0	0	0	0
26		0	.07	93	5.5	65	2.1	.91	0	0	0	0
27		0	.05	45	5.2	27	1.4	.73	0	0	0	0
28		0	.05	20	5.8	15	1.0	.55	0	0	0	0
29		.04	.11	12	---	12	.74	.43	0	2.6	0	0
30		.10	.12	9.2	---	9.4	.62	.31	0	3.3	0	0
31		---	.07	7.3	---	7.5	---	.25	---	1.2	0	---
TOTAL	0	.14	44.79	484.46	548.1	634.7	282.56	972.59	1.51	7.1	.61	5.65
MEAN	0	.005	1.44	15.6	19.6	20.5	9.42	31.4	.050	.23	.020	.19
MAX	0	.10	13	122	81	127	50	314	.21	3.3	.37	2.3
MIN	0	0	.02	.05	4.0	4.7	.62	.25	0	0	0	0
CFSM	0	0	.02	.20	.25	.26	.12	.40	0	.002	0	.002
IN.	0	.00006	.02	.23	.26	.30	.13	.46	.0007	.003	.0003	.003
AC-FT	0	.3	89	961	1090	1260	560	1930	3.0	14	1.2	11

CAL YR 1977 TOTAL 11337.08 MEAN 31.1 MAX 1180 MIN 0 CFSM .40 IN 5.41 AC-FT 22490
WTR YR 1978 TOTAL 2982.21 MEAN 8.17 MAX 314 MIN 0 CFSM .10 IN 1.42 AC-FT 5920

RED RIVER BASIN

07344450 PAW PAW BAYOU NEAR GREENWOOD, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			1.18	1.21	2.67	2.18	2.06	1.40	1.18		1.24	
2			1.16	1.20	3.90	2.23	1.98	1.38	1.18		1.16	
3			1.16	1.19	3.38	2.19	1.91	1.64	1.16		1.11	
4			1.16	1.21	2.73	2.13	1.84	1.82	1.15		1.06	
5			1.15	1.21	2.39	2.05	1.79	1.98	1.15		1.03	
6			1.13	1.21	2.18	1.97	1.77	1.89	1.15		.99	
7			1.13	1.22	2.03	2.38	1.74	6.76	1.16			
8			1.17	1.24	1.94	5.11	1.69	7.45	1.14			
9			1.19	1.21	1.89	4.30	1.68	6.16	1.12			
10			1.16	1.32	1.86	3.16	2.09	3.33	1.10			
11			1.16	1.51	1.85	2.73	4.14	2.56	1.09			
12			1.17	1.52	2.00	2.49	3.23	3.28	1.08			
13			1.53	1.51	3.94	2.33	2.58	4.81	1.06			
14			1.99	1.67	5.09	2.38	2.22	3.74	1.04			.98
15			2.53	1.67	3.54	2.65	2.00	2.79	1.00			1.31
16			2.22	1.84	2.77	2.61	1.88	2.32				1.63
17			1.92	3.46	2.51	2.32	1.90	2.03				1.43
18			1.73	3.56	3.43	2.13	3.28	1.87				1.27
19			1.63	2.63	4.31	2.01	3.95	1.76				1.17
20			1.52	2.48	3.40	1.93	2.79	1.69				1.12
21			1.45	2.38	2.80	1.92	2.27	1.63				1.09
22			1.37	2.15	2.48	1.93	2.02	1.57				1.05
23			1.33	2.00	2.27	1.93	1.87	1.52				1.03
24			1.30	3.39	2.13	3.24	1.76	1.47				.95
25			1.25	5.89	2.05	5.94	1.69	1.42				
26			1.21	5.31	1.99	4.59	1.63	1.38				
27			1.19	3.88	1.94	3.22	1.54	1.34				
28			1.18	2.89	2.01	2.65	1.49	1.30				
29			1.25	2.45	---	2.48	1.45	1.25		1.22	.94	
30		1.24	1.26	2.28	---	2.29	1.43	1.22		1.75		
31		---	1.21	2.14	---	2.15	---	1.20		1.43		
MEAN		---	1.39	2.22	2.70	2.70	2.12	2.45		---	---	---
MAX		1.24	2.53	5.89	5.09	5.94	4.14	7.45	1.18	1.75	1.24	1.63
MIN		---	1.13	1.19	1.85	1.92	1.43	1.20	---	---	---	---

NOTE.--Gage height below lowest recordable stage of 0.94 ft Oct. 1 to Nov. 29, June 16 to July 28, Aug. 7-28, Aug. 30 to Sept. 13, Sept. 25-30.

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 (8,135 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) National Geodetic Vertical Datum of 1929. 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 or indefinite stage-discharge relation, 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--36 years, 2,558 ft³/s (72.44 m³/s), 11.07 in/yr (281 mm/yr), 1,853,000 acre-ft/yr (2.28 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,000 ft³/s (113 m³/s) Mar. 24, gage height, 11.19 ft (3.411 m); minimum daily discharge (unaffected by backwater), 4.5 ft³/s (0.127 m³/s) Aug. 18-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	81	598	3010	1890	3330	505	481	15	7.8	17
2	18	20	99	559	3060	1960	3170	215	520	15	7.3	19
3	18	19	111	490	3020	2170	3040	543	421	18	8.2	16
4	17	19	135	430	2960	2040	2860	963	361	19	7.8	14
5	17	19	278	448	2890	1920	2710	795	319	15	7.8	11
6	17	19	361	457	2560	1890	2490	823	343	15	7.5	9.5
7	17	19	285	481	2310	2390	2210	1620	439	15	7.5	11
8	18	19	484	879	2370	2820	2020	1790	481	14	7.5	14
9	17	20	680	553	2350	2660	1840	1690	346	13	7.5	14
10	18	30	732	331	2280	2580	1820	1700	262	12	7.8	15
11	18	35	830	235	2060	2750	1850	1690	262	12	7.5	18
12	18	30	935	523	1970	2870	1560	2640	230	11	6.5	19
13	17	25	1110	625	2770	2930	1350	3140	200	10	6.0	19
14	17	22	1270	680	2250	3260	1220	2900	170	9.1	6.0	18
15	18	21	1120	505	1980	3500	1160	2800	150	8.7	5.5	14
16	17	20	1090	809	1980	3470	1130	2400	140	8.7	5.0	10
17	17	19	1170	1470	1900	3420	1070	2330	120	8.2	5.0	8.2
18	18	19	1000	1270	2240	3540	1410	2380	110	8.2	4.5	8.2
19	18	19	1060	1660	2300	3560	1480	2430	100	8.2	4.5	7.8
20	18	20	1120	1800	2510	3530	1170	2380	90	7.8	4.5	7.3
21	18	25	1320	1780	2610	3620	984	2280	90	6.9	4.5	6.9
22	18	26	872	1830	2270	3550	914	2100	80	7.3	4.5	6.5
23	18	27	851	1930	2290	3500	984	1930	65	7.8	4.5	6.5
24	19	28	826	2670	2170	3840	970	1750	60	7.3	4.9	6.5
25	19	27	718	3430	2090	3780	988	1560	50	7.8	5.5	6.5
26	18	25	672	3430	1970	3600	876	1360	40	8.2	5.5	6.5
27	18	24	625	3140	1910	3460	753	1180	30	8.2	6.5	6.5
28	18	23	514	3080	2000	3490	646	1010	25	7.3	7.5	6.9
29	18	35	544	2780	---	3510	634	872	20	7.3	11	7.3
30	18	45	598	2840	---	3380	541	676	16	7.3	9.5	6.9
31	18	---	550	2880	---	3470	---	547	---	6.9	10	---
TOTAL	551	719	22041	44593	66080	94350	47180	50999	6021	325.2	205.6	337.0
MEAN	17.8	24.0	711	1438	2360	3044	1573	1645	201	10.5	6.63	11.2
MAX	19	45	1320	3430	3060	3840	3330	3140	520	19	11	19
MIN	17	19	81	235	1900	1890	541	215	16	6.9	4.5	6.5
AC-FT	1090	1430	43720	88450	131100	187100	93580	101200	11940	645	408	668
CAL YR 1977 TOTAL	701515.0			MEAN 1922	MAX 9840	MIN 14	AC-FT 1391000					
WTR YR 1978 TOTAL	333401.8			MEAN 913	MAX 3840	MIN 4.5	AC-FT 661300					

NOTE.--Period of indefinite stage-discharge relation: June 12-28. Gage heights for July 12 to Sept. 30 computed from once-daily nonrecording gage readings.

RED RIVER BASIN

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.20	-.24	.42	2.51	8.94	6.15	10.39	2.20	2.12	-.30	-.49	---
2	-.19	-.24	.56	2.38	9.07	6.33	10.00	1.18	2.25	-.31	-.50	---
3	-.21	-.25	.64	2.15	8.98	6.86	9.51	2.51	1.92	-.27	-.48	---
4	-.22	---	.80	1.95	8.82	6.53	8.88	3.58	1.72	-.25	-.49	---
5	-.23	---	1.43	2.01	8.64	6.22	8.20	3.10	1.58	-.33	-.49	---
6	-.23	---	1.72	2.04	7.82	6.16	7.64	3.18	1.66	-.34	---	-.46
7	-.24	---	1.46	2.12	7.21	7.41	6.95	5.86	1.98	-.34	---	---
8	-.22	---	2.13	3.34	7.34	8.48	6.84	6.84	2.12	-.36	---	---
9	-.24	---	2.77	2.36	7.30	8.08	6.03	7.20	1.67	-.37	---	---
10	-.23	---	2.92	1.62	7.12	7.87	5.98	7.28	1.37	-.40	-.55	---
11	-.23	---	3.20	1.26	6.58	8.31	6.06	7.32	1.37	-.40	---	---
12	-.24	---	3.50	2.26	6.36	8.59	5.30	8.63	2.27	-.41	---	---
13	-.25	---	4.00	2.60	8.34	8.76	4.69	9.67	4.58	-.44	---	---
14	-.25	---	4.46	2.77	7.04	9.56	4.31	8.98	5.35	-.46	---	-.26
15	-.24	---	4.02	2.20	6.38	10.10	4.14	8.42	5.26	-.47	---	-.36
16	-.26	---	3.93	3.14	6.38	10.02	4.06	7.42	5.16	-.47	---	-.44
17	-.26	---	4.18	5.02	6.18	9.91	3.88	7.25	5.22	-.48	---	-.48
18	-.25	---	3.70	4.45	7.02	10.17	4.85	7.38	4.80	-.48	---	-.48
19	-.25	---	3.86	5.56	7.18	10.22	5.01	7.50	3.91	-.48	---	-.49
20	-.25	---	4.04	5.92	7.70	10.15	4.18	7.38	3.03	-.49	---	-.50
21	-.26	---	4.61	5.87	7.95	10.36	3.64	7.07	2.13	-.51	---	-.51
22	-.26	---	3.32	5.99	7.10	10.20	3.44	6.67	1.35	-.50	---	-.52
23	-.26	---	3.26	6.26	7.16	10.10	3.64	6.25	1.11	-.49	---	-.52
24	-.25	---	3.19	8.10	6.84	10.84	3.60	5.80	1.01	-.50	-.56	-.52
25	-.25	---	2.88	9.94	6.64	10.70	3.65	5.28	.92	-.49	---	-.52
26	-.26	---	2.75	9.94	6.35	10.31	3.33	4.71	.88	-.48	---	-.52
27	-.26	---	2.60	9.28	6.20	10.00	2.98	4.20	.69	-.48	---	-.52
28	-.26	---	2.23	9.12	6.43	10.60	2.67	3.70	.21	-.50	---	-.51
29	-.26	---	2.33	8.38	---	11.07	2.63	3.32	-.15	-.50	---	-.50
30	-.27	---	2.51	8.53	---	10.99	2.32	2.76	-.27	-.50	---	-.51
31	-.27	---	2.35	8.62	---	10.75	---	2.34	---	-.51	---	---
MEAN	-.24	---	2.77	4.76	7.32	9.09	5.28	5.64	2.24	-.43	---	---
MAX	-.19	---	4.61	9.94	9.07	11.07	10.39	9.67	5.35	-.25	---	---
MIN	-.27	---	.42	1.26	6.18	6.15	2.32	1.18	-.27	-.51	---	---

RED RIVER BASIN

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07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1953-55, 1958-59, 1960, 1969-70, 1978.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1978 to current year.

WATER TEMPERATURES: April 1978 to current year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,760 micromhos Aug. 26; minimum daily, 190 micromhos May 22.

WATER TEMPERATURES: Maximum daily, 36.0°C June 27, minimum daily, 17.0°C May 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)
JAN 25...	1600	3730	227	6.4	3.0	40	75	13.0	3.7	K3000	9000	37
FEB 15...	1600	1990	214	6.2	4.5	30	10	12.6	4.4	K70	830	37
MAR 15...	1200	3320	199	6.4	13.5	15	15	9.9	--	K10	1300	36
APR 19...	1600	1460	248	6.8	20.0	15	15	8.9	2.6	K80	230	45
MAY 09...	1330	1640	245	6.7	27.0	30	35	8.0	2.2	--	4800	42
JUN 13...	1715	E200	276	8.6	34.0	20	20	9.2	5.2	K85	--	56
JUL 13...	1330	9.1	3020	7.6	34.0	5	9	8.8	--	420	760	720
AUG 08...	0945	7.6	3510	7.9	27.5	10	7	8.3	5.6	5000	5200	870
SEP 07...	1000	11	2830	7.5	27.5	10	15	8.2	3.4	K640	5500	570

DATE	HARD- NESS, NONCAR- BONATE, DIS- (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
JAN 25...	20	8.8	3.7	25	57	1.8	3.1	21	0	17	14	44
FEB 15...	25	8.7	3.6	24	57	1.7	2.7	15	0	12	17	44
MAR 15...	28	9.3	3.1	21	54	1.5	2.7	10	0	8	21	38
APR 19...	22	11	4.3	26	54	1.7	2.9	28	0	23	17	46
MAY 09...	25	14	1.7	26	55	1.7	2.9	21	0	17	17	45
JUN 13...	31	13	5.7	29	51	1.7	3.0	31	0	25	15	57
JUL 13...	470	140	90	360	52	5.8	4.4	300	0	246	350	640
AUG 08...	600	150	120	430	52	6.4	5.0	330	0	271	380	780
SEP 07...	330	110	72	360	58	6.6	4.7	300	0	246	220	640

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

RED RIVER BASIN

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO ₂)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH ₄ + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
JAN 25...	.1	11	127	120	.17	1280	.24	.07	.93	1.0	.11	.89
FEB 15...	.1	10	127	117	.17	682	.07	.09	.46	.55	--	--
MAR 15...	.1	10	107	110	.15	959	.02	.05	.86	.91	.02	.89
APR 19...	.1	8.2	146	130	.20	576	.74	.10	.86	.96	.36	.60
MAY 09...	.1	6.5	138	124	.19	611	.12	.13	.77	.90	.22	.68
JUN 13...	.0	7.5	160	145	.22	--	.03	.05	.92	.97	.36	.61
JUL 13...	.3	11	1910	1750	2.60	46.9	.02	.03	.97	1.0	.00	1.0
AUG 08...	.3	11	2200	2040	2.99	45.1	.01	.12	.98	1.1	.61	.49
SEP 07...	.3	8.8	1730	1560	2.35	51.4	.01	.07	.90	.97	.15	.82

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO ₃)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SED. SUSP. SIEVE DIA.M. % FINER THAN .062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
JAN 25...	1.2	5.5	.16	.07	--	6.7	--	--	57	171	1720
FEB 15...	.62	2.7	.09	.02	5.5	--	--	--	75	56	301
MAR 15...	.93	4.1	.14	.13	6.1	--	--	7700	70	71	636
APR 19...	1.7	7.5	.07	.02	--	8.2	1.2	--	79	108	426
MAY ...	1.0	4.5	.11	.01	8.2	--	--	--	90	84	372
JUN 13...	1.0	4.4	.06	.02	9.6	--	--	--	84	99	--
JUL 13...	1.0	4.5	.03	.00	--	6.1	--	--	92	450	11
AUG 08...	1.1	4.9	.03	.00	6.6	--	--	--	93	320	6.6
SEP 07...	.98	4.3	.23	.02	9.3	--	--	--	94	278	8.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
JAN 25...	1	1	0	0	0	0	40	30	10
APR 19...	0	0	0	0	0	0	10	0	10
JUL 13...	0	0	0	0	0	0	20	0	20

RED RIVER BASIN

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	274	259	2310	3160	---
2							---	385	251	---	3260	2830
3							---	---	299	2920	3440	3090
4							---	403	325	2580	3530	3110
5							---	281	347	2510	3500	---
6							---	259	---	2590	3450	2900
7							---	252	288	---	---	2820
8							---	258	265	2540	3600	2800
9							---	---	328	---	3680	2850
10							---	229	350	---	3700	2780
11							---	---	312	2540	---	2710
12							---	236	300	2940	3650	---
13							---	218	274	3120	3550	2870
14							---	200	307	---	---	2640
15							---	205	332	3120	---	---
16							---	210	---	3080	3490	2220
17							---	206	378	3070	3480	2400
18							---	195	371	---	3480	2550
19							---	249	195	---	3200	2660
20							---	243	---	478	3240	2760
21							---	231	196	569	3240	2720
22							---	233	190	670	3240	---
23							---	233	198	---	3530	2850
24							---	222	198	1000	3420	2930
25							---	221	217	1230	3370	3210
26							---	224	204	1340	3310	---
27							---	237	212	1680	3040	3410
28							---	---	216	---	3140	3500
29							---	251	220	2080	---	3530
30							---	265	241	2110	2900	---
31							---	---	257	---	3050	---
MONTH							---	235	646	---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	26.0	30.0	30.0	28.0	---
2							---	22.0	27.0	---	30.0	28.0
3							---	---	28.0	31.0	31.0	28.0
4							---	17.0	28.0	29.0	---	30.0
5							---	20.0	29.0	30.0	27.0	---
6							---	19.0	---	32.0	27.0	29.0
7							---	23.0	29.0	---	---	30.0
8							---	26.0	29.0	32.0	29.0	30.0
9							---	---	29.0	---	30.0	30.0
10							---	25.0	29.0	---	29.0	27.0
11							---	---	29.0	33.0	---	27.0
12							---	25.0	32.0	32.0	30.0	---
13							---	24.0	32.0	32.0	28.0	31.0
14							---	24.0	31.0	---	---	28.0
15							---	26.0	31.0	30.0	---	---
16							---	26.0	---	32.0	32.0	30.0
17							---	25.0	32.0	30.0	32.0	29.0
18							---	---	31.0	---	32.0	30.0
19							---	22.0	---	31.0	32.0	32.0
20							---	21.0	---	31.0	29.0	30.0
21							---	22.0	28.0	32.0	31.0	30.0
22							---	22.0	29.0	33.0	30.0	---
23							---	23.0	30.0	---	32.0	27.0
24							---	24.0	29.0	32.0	34.0	27.0
25							---	22.0	30.0	32.0	33.0	27.0
26							---	22.0	30.0	33.0	31.0	---
27							---	24.0	---	36.0	29.0	25.0
28							---	---	30.0	---	30.0	24.0
29							---	24.0	28.0	33.0	---	---
30							---	24.0	30.0	31.0	31.0	---
31							---	---	30.0	---	30.0	---
MONTH							---	---	31.0	---	---	---

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAR. 15, 1978 1200 HOURS

PHYTOPLANKTON 7,700 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	980	13
....CHODATELLA	95	1
....OOCYSTIS	510	7
....SELENASTRUM	250	3
...SCENEDESMACEAE		
....CRUCIGENIA	63	1
....SCENEDESMUS	860	11
..TETRASPORALES		
..PALMELLACEAE		
...GLOEOCYSTIS	220	3
...SPHAEROCYSTIS	32	0
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	63	1
..ZYGNETALES		
...ZYGNETACEAE		
....MOUGEOTIA	160	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	32	0
....MELOSIRA		0
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	32	0
...NITZSCHIACEAE		
....NITZSCHIA	220	3
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...OCHROMONADACEAE		
....DINOBRYON	63	1
....OCHROMONAS	32	0
CYANOPHYTA		
.CYANOPHYCEAE		
..CHROCCOCCALES		
...CHROCCOCCAEAE		
....ANACYSTIS	890	11
..HORMOGONALES		
...OSCILLATORIACEAE		
....LYNGBYA	2,400	31
....OSCILLATORIA	760	10
EUGLENOPHYTA		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	32	0
PYRRHOPHYTA		
.DINOPHYCEAE		
..PERIDINIALES		
...GLENODINIACEAE		
....GLENODINIUM	32	0

RED RIVER BASIN

07348500 RED RIVER AT SHREVEPORT, LA

LOCATION.--Lat 32°30'55", long 93°44'25", in SE¼SE¼ sec.30, T.18 N., R.13 W., Caddo Parish, 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 1977. 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) National Geodetic Vertical Datum of 1929 (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. See Red River near Hosston (sta 07344400).

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

AVERAGE DISCHARGE.--49 years (1928-77), 24,600 ft³/s (696.7 m³/s), 17,822,700 acre-ft/yr (22.0 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 1977: Maximum daily discharge, 106,000 ft³/s (3,000 m³/s) Apr. 1, gage height, 21.70 ft (6.614 m); minimum daily, 3,700 ft³/s (105 m³/s) Aug. 24 and Sept. 6.

RECORDS FOR THE 1978 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 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5300	9000	6300	7600	18000	26000	104000	40000	36000	8200	5700	4700
2	5200	8100	6700	6500	17000	26000	93000	36000	35000	8700	6000	4500
3	5200	7500	7100	5300	16000	26000	94000	31000	35000	9000	6200	4300
4	5400	7700	7300	5100	16000	27000	95000	29000	37000	9500	6300	4100
5	5700	7900	7700	4800	15000	38000	97000	28000	39000	10000	6400	3900
6	6000	8200	8000	4800	18000	59000	99000	27000	42000	9700	6500	3700
7	6800	8600	8700	11000	19000	62000	94000	26000	36000	8300	6300	3800
8	6800	8300	10000	13000	20000	62000	90000	25000	33000	7100	5800	4800
9	8400	7900	11000	14000	21000	61000	86000	24000	31000	6100	5600	5500
10	9900	7700	11000	13000	24000	56000	82000	22000	27000	5400	5400	8200
11	9900	7100	12000	14000	26000	50000	76000	19000	24000	4900	5200	11000
12	9500	6300	14000	14000	29000	42000	71000	18000	19000	4500	5100	11000
13	9200	5900	17000	15000	33000	39000	70000	17000	18000	4200	4900	9700
14	8900	5200	21000	20000	35000	38000	68000	15000	15000	4200	4800	8000
15	8600	5000	25000	23000	41000	36000	66000	13000	14000	4400	4500	7700
16	8000	5000	27000	26000	48000	36000	61000	13000	13000	4700	4400	7200
17	7200	4900	26000	26000	48000	35000	56000	13000	12000	4800	4300	6300
18	7100	5100	25000	28000	46000	34000	48000	13000	11000	4600	4100	5600
19	7100	5400	24000	29000	43000	33000	46000	12000	9900	4300	4200	5000
20	7500	5700	22000	31000	41000	33000	45000	11000	9200	4300	4400	4700
21	7600	5800	22000	30000	39000	32000	47000	10000	9300	4800	4400	4500
22	7600	5900	21000	27000	37000	30000	56000	9500	9400	5100	4200	4400
23	7700	6000	20000	24000	37000	29000	63000	8800	9300	5000	3800	4800
24	7800	6100	18000	23000	35000	24000	65000	8800	8900	4900	3700	5400
25	8100	6200	15000	23000	33000	22000	66000	12000	8300	4800	3800	5500
26	8600	6300	14000	22000	32000	18000	60000	15000	7900	4600	4300	5100
27	9000	6200	13000	20000	30000	19000	56000	19000	7700	4500	4500	4700
28	9500	6400	13000	20000	29000	22000	51000	32000	7600	5000	4700	4200
29	9300	6300	14000	19000	---	32000	48000	35000	7500	5300	4900	4500
30	9400	6200	13000	19000	---	65000	44000	36000	7700	5700	4800	4700
31	9400	---	12000	18000	---	105000	---	36000	---	5700	4900	---
TOTAL	241700	197900	471800	556100	846000	1217000	2097000	654100	579700	182300	154100	171500
MEAN	7797	6597	15220	17940	30210	39260	69900	21100	19320	5881	4971	5717
MAX	9900	9000	27000	31000	48000	105000	104000	40000	42000	10000	6500	11000
MIN	5200	4900	6300	4800	15000	18000	44000	8800	7500	4200	3700	3700
AC-FT	479400	392500	935800	1103000	1678000	2414000	4159000	1297000	1150000	361600	305700	340200
CAL YR 1976 TOTAL	5147600			MEAN 14060	MAX 57000	MIN 3800	AC-FT 10210000					
WTR YR 1977 TOTAL	7369200			MEAN 20190	MAX 105000	MIN 3700	AC-FT 14620000					

RED RIVER BASIN

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07348500 RED RIVER AT SHREVEPORT, 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	4.40	6.70	4.90	6.40	9.60	12.40	21.70	14.80	14.50	6.90	5.50	5.00
2	4.20	6.20	5.20	6.40	9.40	12.20	20.80	13.80	14.20	7.10	5.60	4.80
3	4.20	5.70	5.30	4.70	9.00	11.50	20.10	13.40	14.10	7.20	5.83	4.80
4	4.20	6.10	5.00	4.40	8.50	11.90	20.50	13.20	14.10	7.20	5.80	4.70
5	4.20	6.10	5.20	4.10	8.80	13.00	21.00	13.00	14.50	7.40	5.90	4.70
6	4.20	6.10	5.20	4.00	9.00	16.20	21.10	12.70	14.80	7.44	5.90	4.50
7	4.50	6.10	5.20	5.20	9.30	17.50	20.70	12.40	14.70	6.90	5.80	4.60
8	4.80	6.10	6.00	6.50	9.70	17.20	20.20	11.90	13.80	6.50	5.80	4.70
9	5.60	6.10	6.50	6.80	10.30	17.00	19.80	11.50	12.90	6.10	5.40	7.10
10	6.60	6.10	6.50	6.90	11.00	16.70	19.60	11.20	12.50	5.40	5.41	7.80
11	6.80	5.80	6.50	6.80	11.40	16.00	19.20	10.70	12.40	5.40	5.10	8.50
12	6.60	5.10	7.50	7.10	12.00	15.10	18.80	10.60	11.30	5.20	4.90	8.00
13	6.40	4.70	8.80	7.70	12.70	14.40	18.60	10.50	10.10	5.00	4.80	7.40
14	6.20	4.40	10.10	9.00	13.40	14.10	18.60	10.50	9.50	5.00	4.80	6.50
15	5.90	4.30	11.10	10.60	13.80	13.90	18.40	9.40	8.90	5.00	4.80	6.20
16	5.60	4.30	11.90	11.00	15.40	14.00	18.10	8.70	8.70	5.20	4.60	6.10
17	5.30	4.30	11.90	11.60	15.50	14.00	17.40	8.80	8.60	5.30	4.65	5.80
18	5.30	4.60	11.80	11.90	15.40	14.00	16.60	8.90	8.20	5.00	5.00	5.30
19	5.40	4.80	11.30	12.30	15.00	13.50	16.00	8.70	7.80	5.00	5.10	4.80
20	5.40	4.80	10.80	12.70	14.70	13.40	16.10	8.20	7.40	4.97	5.20	4.50
21	5.40	4.80	10.80	12.90	14.40	13.20	16.70	8.00	7.30	5.10	4.90	4.64
22	5.40	4.80	10.80	12.40	14.10	13.00	17.10	7.90	7.30	5.30	4.60	5.30
23	5.40	4.80	10.40	11.90	13.90	12.40	18.00	7.80	7.30	5.40	4.50	5.50
24	5.40	4.80	9.90	11.10	13.90	11.90	18.60	7.80	7.10	5.30	4.35	5.30
25	5.60	4.90	9.00	10.90	13.70	10.80	18.60	8.40	7.00	5.20	4.60	5.20
26	6.00	5.10	8.40	10.70	13.30	10.20	18.00	10.20	6.80	5.10	4.90	5.10
27	6.20	5.10	8.10	10.00	13.10	9.90	17.40	12.20	6.80	4.96	5.20	5.00
28	6.80	5.10	8.10	10.00	12.60	10.90	17.10	13.20	6.80	5.20	5.40	4.70
29	6.70	5.45	8.30	10.00	---	12.00	16.60	13.20	6.70	5.40	5.50	4.60
30	6.70	5.10	8.10	9.90	---	15.50	15.80	13.60	6.70	5.60	5.40	4.90
31	6.70	---	7.50	9.70	---	20.70	---	14.40	---	5.60	5.00	---
MEAN	5.55	5.28	8.26	8.89	12.25	13.82	18.57	10.95	10.09	5.72	5.17	5.53
MAX	6.80	6.70	11.90	12.90	15.50	20.70	21.70	14.80	14.80	7.44	5.90	8.50
MIN	4.20	4.30	4.90	4.00	8.50	9.90	15.80	7.80	6.70	4.96	4.35	4.50

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) National Geodetic Vertical Datum of 1929.

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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--21 years, 544 ft³/s (15.41 m³/s), 12.21 in/yr (310 mm/yr), 394,100 acre-ft/yr (486 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), no peak above the base. Maximum discharge, 1,880 ft³/s (53.2 m³/s) May 16, gage height, 12.59 ft (3.837 m); minimum daily discharge, 0.60 ft³/s (0.017 m³/s) Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	8.4	19	21	645	177	238	467	50	5.5	2.5	1.6
2	6.8	11	29	22	548	245	193	449	46	4.3	2.5	1.7
3	8.4	11	56	24	430	318	164	500	50	3.7	2.4	2.2
4	10	11	86	24	331	390	144	509	74	3.3	2.3	2.7
5	9.7	11	98	24	270	424	130	560	140	3.0	2.3	2.5
6	9.0	11	90	24	236	430	119	585	256	2.9	2.0	2.4
7	8.4	12	76	25	213	500	109	905	422	2.7	1.3	2.2
8	8.4	13	64	25	197	531	101	971	486	2.6	.78	2.0
9	7.8	19	48	23	180	525	94	956	514	2.7	.64	2.0
10	8.4	16	35	25	164	514	93	985	526	2.9	.60	2.2
11	7.8	15	29	39	150	514	124	1060	543	3.2	.84	2.4
12	7.0	14	27	62	142	516	117	1400	510	3.5	1.1	2.5
13	6.8	13	34	69	172	490	114	1540	423	3.5	1.3	2.6
14	7.0	12	40	59	194	459	119	1640	268	3.5	2.1	2.7
15	6.8	11	29	52	241	401	117	1720	140	3.4	2.2	2.6
16	6.2	10	28	77	292	366	105	1850	83	3.3	1.8	2.4
17	6.1	9.5	33	141	344	364	91	1800	53	3.1	2.4	2.1
18	6.2	9.0	37	185	386	382	89	1580	37	2.9	3.4	1.8
19	6.2	8.6	35	271	364	381	153	1320	26	2.8	4.5	1.6
20	7.0	8.2	31	316	330	346	203	1090	26	2.8	4.4	1.6
21	6.5	7.7	28	346	300	308	217	863	20	2.9	2.4	1.5
22	6.1	7.3	27	366	278	264	216	570	17	3.2	2.4	1.4
23	5.7	7.0	26	343	272	218	162	296	15	3.5	2.3	1.3
24	5.7	8.2	25	355	244	249	116	197	12	3.6	2.1	1.2
25	6.2	7.6	24	367	207	292	107	248	9.9	4.0	2.1	1.2
26	6.8	21	23	435	179	330	128	344	8.3	4.1	2.1	1.2
27	6.8	25	23	508	157	369	234	344	6.6	14	2.0	1.2
28	7.5	15	23	569	167	405	317	225	5.9	5.7	1.9	1.3
29	7.5	18	22	625	---	408	396	131	6.3	2.4	10	1.3
30	7.5	21	24	672	---	361	453	89	6.5	2.3	6.3	1.1
31	7.5	---	22	682	---	295	---	67	---	2.5	2.3	---
TOTAL	224.0	371.1	1191	6776	7633	11772	4963	25261	4788.5	113.8	77.26	56.5
MEAN	7.23	12.4	38.4	219	273	380	165	815	160	3.67	2.49	1.88
MAX	10	25	98	682	645	531	453	1850	543	14	10	2.7
MIN	5.7	7.0	19	21	142	177	89	67	5.9	2.3	.60	1.1
AC-FT	444	736	2360	13440	15140	23350	9840	50110	9500	226	153	112
CAL YR 1977	TOTAL	106036.20	MEAN	291	MAX	3410	MIN	1.1	AC-FT	210300		
WTR YR 1978	TOTAL	63227.16	MEAN	173	MAX	1850	MIN	.60	AC-FT	125400		

RED RIVER BASIN

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07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.77	4.85	5.07	4.72	10.02	7.10	7.69	9.19	5.01	4.06	4.19	3.55
2	4.79	4.93	5.30	4.77	9.59	7.74	7.27	9.09	4.92	3.97	4.17	3.58
3	4.85	4.93	5.68	4.81	8.98	8.30	6.93	9.36	5.17	3.92	4.15	3.71
4	4.91	4.92	6.00	4.84	8.39	8.76	6.64	9.41	5.48	3.90	4.13	3.80
5	4.89	4.93	6.12	4.84	7.94	8.96	6.42	9.65	6.56	3.89	4.12	3.75
6	4.87	4.94	6.01	4.84	7.66	9.00	6.23	9.76	7.80	3.89	4.03	3.69
7	4.85	4.95	5.82	4.85	7.46	9.36	6.07	11.00	8.94	3.90	3.77	3.64
8	4.85	4.99	5.64	4.85	7.29	9.52	5.93	11.23	9.30	3.91	3.52	3.58
9	4.83	5.15	5.38	4.79	7.12	9.49	5.81	11.19	9.43	3.95	3.43	3.57
10	4.85	5.07	5.11	4.84	6.95	9.43	5.80	11.27	9.49	4.03	3.40	3.60
11	4.83	5.07	4.98	5.21	6.78	9.43	6.32	11.49	9.57	4.12	3.50	3.63
12	4.80	5.08	4.92	5.60	6.68	9.44	6.20	12.09	9.41	4.20	3.62	3.64
13	4.79	5.08	5.10	5.71	7.03	9.31	6.16	12.27	8.94	4.24	3.70	3.66
14	4.80	5.09	5.23	5.55	7.26	9.15	6.23	12.37	7.90	4.27	3.94	3.65
15	4.79	5.13	4.97	5.43	7.70	8.83	6.21	12.45	6.58	4.28	3.98	3.65
16	4.77	5.10	4.94	5.83	8.11	8.62	5.99	12.57	5.71	4.30	3.83	3.63
17	4.76	5.10	5.07	6.70	8.48	8.61	5.76	12.52	5.19	4.30	3.98	3.57
18	4.77	5.12	5.17	7.17	8.73	8.71	5.74	12.31	4.84	4.30	4.16	3.51
19	4.77	5.13	5.11	7.94	8.60	8.71	6.75	11.99	4.62	4.30	4.30	3.48
20	4.80	5.11	5.02	8.29	8.39	8.50	7.37	11.54	4.48	4.31	4.25	3.47
21	4.78	4.58	4.96	8.49	8.17	8.24	7.50	10.87	4.42	4.33	3.93	3.47
22	4.76	4.51	4.92	8.62	8.00	7.90	7.49	9.67	4.33	4.37	3.92	3.45
23	4.74	4.66	4.89	8.47	7.96	7.50	6.88	8.11	4.27	4.42	3.87	3.43
24	4.74	4.79	4.86	8.54	7.73	7.77	6.18	7.30	4.20	4.43	3.82	3.41
25	4.77	4.76	4.82	8.62	7.40	8.12	6.04	7.75	4.14	4.48	3.79	3.40
26	4.79	5.11	4.78	9.02	7.10	8.39	6.38	8.47	4.09	4.48	3.77	3.41
27	4.79	5.19	4.79	9.39	6.86	8.64	7.63	8.46	4.01	5.02	3.74	3.46
28	4.82	4.97	4.78	9.69	6.97	8.85	8.29	7.54	3.99	4.53	3.71	3.53
29	4.82	5.04	4.75	9.94	---	8.87	8.80	6.43	4.05	4.17	4.45	3.54
30	4.82	5.12	4.81	10.14	---	8.59	9.12	5.74	4.10	4.15	4.24	3.46
31	4.82	---	4.74	10.18	---	8.14	---	5.35	---	4.19	3.76	---
MEAN	4.81	4.98	5.15	6.86	7.83	8.64	6.73	9.95	6.03	4.21	3.91	3.56
MAX	4.91	5.19	6.12	10.18	10.02	9.52	9.12	12.57	9.57	5.02	4.45	3.80
MIN	4.74	4.51	4.74	4.72	6.68	7.10	5.74	5.35	3.99	3.89	3.40	3.40

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) National Geodetic Vertical Datum of 1929 (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 1978 are published under miscellaneous water-quality sites in this report. Gage heights affected by Lake Bistineau.

AVERAGE DISCHARGE.--45 years (water years 1929-31, 1936-78), 1,098 ft³/s (31.10 m³/s), 13.59 in/yr (345 mm/yr), 795,500 acre-ft/yr (981 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, 2,980 ft³/s (84.4 m³/s) May 13, gage height, 12.04 ft (3.670 m); minimum daily discharge, 0.06 ft³/s (0.002 m³/s) Aug. 20-26; minimum gage height, 6.00 ft (1.829 m) Nov. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	3.5	10	30	670	246	507	334	400	9.3	.32	.07
2	.44	4.0	7.8	30	699	229	460	414	250	8.4	.24	.07
3	.44	4.0	4.0	28	723	229	384	489	170	9.3	.18	.07
4	.60	3.7	2.6	23	710	254	312	532	140	7.8	.16	.07
5	.84	3.7	10	22	644	320	254	594	120	5.6	.14	.07
6	.84	3.5	55	20	530	403	216	699	131	4.9	.12	.08
7	.72	3.7	66	18	419	493	187	1360	247	3.8	.12	.08
8	.72	3.8	68	28	330	551	167	2080	399	3.2	.12	.08
9	.72	3.8	67	41	274	596	152	2360	469	2.0	.12	.08
10	.96	4.0	67	40	242	686	154	2350	532	1.1	.10	.10
11	1.2	4.2	67	36	221	723	202	2470	580	.96	.10	.10
12	.96	4.4	64	36	212	729	239	2800	589	.72	.10	.10
13	.84	4.4	68	37	230	701	232	2960	592	.72	.10	.10
14	.84	4.2	68	41	247	691	239	2950	580	.60	.10	.12
15	.72	4.2	60	52	256	680	221	2820	541	.60	.08	.32
16	.60	3.5	49	70	280	662	194	2680	452	.56	.08	.32
17	.56	3.2	48	80	304	624	177	2570	314	.48	.08	.36
18	.52	3.0	46	85	356	577	244	2490	201	.40	.08	.36
19	.48	2.8	42	97	408	523	403	2390	134	.40	.08	.36
20	1.2	2.4	38	117	456	491	384	2270	90	.40	.06	.36
21	3.2	2.2	33	155	482	489	352	2120	70	.36	.06	.36
22	2.4	2.1	33	210	474	489	338	1940	55	.36	.06	.36
23	1.8	2.0	34	278	441	460	322	1730	41	.36	.06	.36
24	1.6	1.8	36	384	397	489	300	1470	32	.40	.06	.52
25	2.2	1.6	36	454	358	476	274	1150	23	.40	.06	.52
26	2.7	1.3	34	471	332	460	225	830	10	.36	.06	.48
27	2.7	1.1	30	469	300	487	184	640	13	.40	.07	.44
28	2.7	.96	30	485	274	512	163	400	10	.40	.07	.40
29	3.0	1.4	33	509	---	516	173	300	9.3	.40	.07	.36
30	3.2	1.6	30	551	---	518	232	500	9.6	.40	.07	.32
31	3.2	---	30	594	---	521	---	500	---	.36	.07	---
TOTAL	43.38	90.06	1266.4	5491	11269	15825	7891	49192	7217.9	65.44	3.19	7.39
MEAN	1.40	3.00	40.9	177	402	510	263	1587	241	2.11	.10	.25
MAX	3.2	4.4	68	594	723	729	507	2960	592	9.3	.32	.52
MIN	.44	.96	2.6	18	212	229	152	300	9.3	.36	.06	.07
CFSM	.001	.002	.04	.16	.37	.46	.24	1.45	.22	.001	0	0
IN.	.001	.003	.04	.19	.38	.54	.27	1.67	.24	.002	.0001	.0003
AC-FT	86	179	2510	10890	22350	31390	15650	97570	14320	130	6.3	15

CAL YR 1977 TOTAL 140168.58 MEAN 384 MAX 3320 MIN .36 CFSM .35 IN 4.75 AC-FT 278000
WTR YR 1978 TOTAL 98361.76 MEAN 269 MAX 2960 MIN .06 CFSM .25 IN 3.34 AC-FT 195100

RED RIVER BASIN

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07349000 BAYOU DORCHEAT NEAR MINDEN, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.37	6.12	6.32	6.62	7.95	7.51	7.84	7.52	7.56	7.26	6.84	6.64
2	6.30	6.15	6.33	6.62	8.00	7.52	7.80	7.51	7.55	7.25	6.82	6.64
3	6.27	6.12	6.36	6.65	8.05	7.48	7.73	7.67	7.49	7.23	6.79	6.66
4	6.27	6.11	6.38	6.66	8.03	7.49	7.66	7.76	7.46	7.21	6.75	6.70
5	6.27	6.09	6.31	6.66	7.97	7.56	7.62	7.81	7.42	7.19	6.74	6.69
6	6.25	6.11	6.30	6.67	7.85	7.63	7.58	7.94	7.44	7.17	6.72	6.67
7	6.26	6.12	6.33	6.71	7.72	7.76	7.52	9.38	7.51	7.15	6.71	6.67
8	6.26	6.14	6.40	6.66	7.61	7.82	7.47	10.66	7.60	7.14	6.68	6.67
9	6.22	6.16	6.29	6.67	7.56	7.86	7.48	11.11	7.66	7.15	6.66	6.67
10	6.23	6.13	6.33	6.66	7.54	7.96	7.52	11.12	7.74	7.13	6.66	6.67
11	6.18	6.12	6.35	6.66	7.52	8.07	7.59	11.30	7.82	7.10	6.65	6.67
12	6.18	6.11	6.37	6.72	7.55	8.06	7.60	11.78	7.86	7.08	6.64	6.70
13	6.18	6.10	6.47	6.74	7.68	8.06	7.56	12.02	7.84	7.06	6.62	6.72
14	6.18	6.11	6.51	6.75	7.62	8.05	7.56	12.00	7.83	7.04	6.61	6.72
15	6.15	6.13	6.54	6.76	7.59	8.04	7.54	11.82	7.80	7.02	6.61	6.73
16	6.14	6.13	6.59	6.84	7.58	7.97	7.51	11.61	7.73	6.99	6.59	6.74
17	6.14	6.07	6.58	6.88	7.57	7.95	7.50	11.45	7.61	6.97	6.57	6.73
18	6.13	6.08	6.58	6.89	7.62	7.91	7.51	11.33	7.51	6.89	6.54	6.72
19	6.11	6.09	6.59	6.95	7.67	7.88	7.59	11.17	7.46	6.92	6.51	6.72
20	6.11	6.09	6.55	7.02	7.73	7.84	7.59	10.98	7.42	6.91	6.47	6.71
21	6.10	6.08	6.55	7.07	7.73	7.82	7.55	10.73	7.38	6.88	6.46	6.69
22	6.10	6.11	6.58	7.12	7.74	7.80	7.58	10.43	7.35	6.87	6.44	6.65
23	6.09	6.13	6.58	7.20	7.71	7.77	7.56	10.06	7.34	6.87	6.44	6.64
24	6.11	6.12	6.58	7.44	7.68	7.88	7.56	9.59	7.31	6.87	6.42	6.63
25	6.12	6.11	6.53	7.61	7.63	7.82	7.51	8.99	7.30	6.85	6.41	6.61
26	6.12	6.12	6.56	7.72	7.58	7.78	7.47	8.33	7.28	6.84	6.39	6.60
27	6.12	6.11	6.55	7.73	7.58	7.78	7.45	7.92	7.24	6.91	6.37	6.59
28	6.11	6.06	6.56	7.74	7.55	7.80	7.43	7.76	7.22	6.90	6.35	6.59
29	6.11	6.16	6.59	7.76	---	7.81	7.45	7.73	7.21	6.89	6.60	6.59
30	6.11	6.30	6.62	7.79	---	7.80	7.46	7.71	7.25	6.88	6.66	6.58
31	6.13	---	6.64	7.85	---	7.82	---	7.64	---	6.86	6.65	---
MEAN	6.17	6.12	6.48	7.03	7.70	7.82	7.56	9.70	7.51	7.02	6.59	6.67
MAX	6.37	6.30	6.64	7.85	8.05	8.07	7.84	12.02	7.86	7.26	6.84	6.74
MIN	6.09	6.06	6.29	6.62	7.52	7.48	7.43	7.51	7.21	6.84	6.35	6.58

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 control. Datum of gage is 130.00 ft (39.624 m) National Geodetic Vertical Datum of 1929 (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 adjustable gates and a fish ladder. Each gate is 6.0 ft (1.83 m) wide and 5.0 ft (1.52 m) high and fits into a notch along the spillway crest. The 1.75-ft (0.533-m) thick spillway crest is flat and has an invert of 11 ft (3.4 m) gage height with invert of the notches at 6 ft (1.8 m) gage height. The fish ladder is 4 ft (1.2 m) wide and begins flowing at 4.1 ft (1.25 m) gage height. Capacity at spillway crest is 120,000 acre-ft (148 km³). Dam was completed in 1935 and enlarged in 1951. Reservoir is used for flood control and conservation. One gate was 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, 12.17 ft (3.709 m) May 9; minimum, 9.78 ft (2.981 m) Nov. 16.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.10	9.85	10.05	10.37	11.30	11.21	11.23	11.13	11.22	11.00	10.55	10.36
2	10.17	9.87	10.07	10.41	11.33	11.16	11.25	11.16	11.26	10.95	10.53	10.36
3	10.12	9.87	10.05	10.36	11.33	11.16	11.23	11.17	11.22	10.94	10.51	10.42
4	10.04	9.86	10.08	10.37	11.32	11.17	11.23	11.16	11.18	10.92	10.52	10.42
5	10.00	9.88	10.09	10.37	11.31	11.14	11.21	11.22	11.15	10.91	10.49	10.42
6	10.01	9.87	10.11	10.38	11.33	11.14	11.17	11.21	11.11	10.90	10.48	10.40
7	9.99	9.87	10.06	10.38	11.30	11.20	11.18	11.74	11.12	10.87	10.45	10.40
8	9.99	9.86	10.00	10.49	11.28	11.24	11.17	12.08	11.14	10.85	10.43	10.40
9	10.00	9.89	10.16	10.44	11.22	11.24	11.15	12.15	11.17	10.83	10.41	10.38
10	9.98	9.88	10.11	10.43	11.19	11.24	11.12	12.07	11.15	10.85	10.39	10.37
11	10.00	9.85	10.09	10.44	11.17	11.23	11.26	11.94	11.16	10.85	10.36	10.40
12	9.98	9.85	10.08	10.50	11.16	11.29	11.23	11.98	11.17	10.83	10.35	10.39
13	10.05	9.84	10.13	10.48	11.22	11.28	11.22	12.05	11.22	10.80	10.32	10.38
14	10.06	9.85	10.24	10.49	11.26	11.32	11.20	11.98	11.20	10.77	10.32	10.45
15	10.09	9.84	10.26	10.47	11.25	11.32	11.19	11.90	11.20	10.75	10.30	10.45
16	9.92	9.84	10.25	10.50	11.22	11.31	11.17	11.88	11.20	10.75	10.28	10.44
17	9.90	9.88	10.30	10.62	11.23	11.28	11.15	11.84	11.19	10.71	10.25	10.42
18	9.87	9.85	10.30	10.63	11.24	11.28	11.16	11.80	11.17	10.69	10.24	10.43
19	9.87	9.84	10.30	10.72	11.21	11.27	11.14	11.78	11.15	10.66	10.22	10.43
20	9.89	9.83	10.34	10.71	11.18	11.25	11.15	11.77	11.13	10.64	10.22	10.41
21	9.88	9.84	10.32	10.73	11.22	11.30	11.17	11.74	11.10	10.63	10.20	10.43
22	9.87	9.90	10.28	10.76	11.19	11.28	11.14	11.70	11.08	10.60	10.18	10.40
23	9.88	9.85	10.28	10.81	11.21	11.23	11.17	11.68	11.05	10.59	10.16	10.40
24	9.88	9.90	10.27	10.97	11.21	11.31	11.16	11.64	11.03	10.59	10.15	10.37
25	9.87	9.87	10.38	11.12	11.22	11.33	11.19	11.60	11.00	10.57	10.13	10.36
26	9.90	9.88	10.31	11.17	11.23	11.29	11.16	11.53	10.98	10.55	10.11	10.34
27	9.87	9.86	10.32	11.22	11.20	11.26	11.14	11.45	10.96	10.60	10.10	10.33
28	9.86	9.90	10.31	11.24	11.20	11.26	11.13	11.37	10.95	10.61	10.07	10.33
29	9.87	9.96	10.36	11.24	---	11.25	11.10	11.32	10.94	10.60	10.36	10.32
30	9.86	10.01	10.38	11.26	---	11.25	11.11	11.28	10.98	10.58	10.40	10.31
31	9.84	---	10.36	11.27	---	11.25	---	11.25	---	10.57	10.38	---
MEAN	9.96	9.87	10.21	10.69	11.24	11.25	11.18	11.63	11.12	10.74	10.32	10.39
MAX	10.17	10.01	10.38	11.27	11.33	11.33	11.26	12.15	11.26	11.00	10.55	10.45
MIN	9.84	9.83	10.00	10.36	11.16	11.14	11.10	11.13	10.94	10.55	10.07	10.31

RED RIVER BASIN

61

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) National Geodetic Vertical Datum of 1929 (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 regulation 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--40 years, 569 ft³/s (16.11 m³/s), 412,200 acre-ft/yr (508 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, 756 ft³/s (21.4 m³/s) Jan. 29, gage height, 9.95 ft (3.033 m); minimum, 3.2 ft³/s (0.09 m³/s) Sept. 7, gage height, 1.80 ft (0.549 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	521	299	24	686	416	41	17	11	15	6.3	20
2	18	497	312	22	607	444	36	27	31	19	5.3	13
3	18	488	310	44	524	453	33	69	29	15	11	17
4	10	482	303	151	510	474	32	215	28	18	12	20
5	6.7	474	296	184	519	460	36	320	28	20	15	11
6	6.5	453	267	188	536	420	38	335	33	16	17	5.1
7	7.2	424	247	189	537	427	49	474	43	13	16	4.4
8	6.5	402	250	212	526	491	48	354	45	12	13	9.1
9	10	397	255	256	498	499	42	287	35	11	13	9.9
10	11	392	257	332	464	443	43	228	29	20	15	8.7
11	8.1	388	261	352	442	344	74	156	32	22	14	12
12	6.5	388	254	372	444	235	71	284	46	19	13	12
13	6.7	393	277	386	464	179	45	403	44	19	14	15
14	7.0	388	297	384	471	175	16	475	22	16	15	18
15	6.3	377	297	378	448	151	11	476	14	16	15	18
16	8.3	362	289	373	409	137	20	357	12	19	12	16
17	14	349	284	400	395	120	24	176	10	19	7.6	15
18	16	335	279	454	392	100	59	78	18	10	7.8	12
19	15	309	278	477	381	81	48	44	22	7.3	16	9.3
20	14	271	252	457	377	74	86	21	21	14	21	8.5
21	14	242	233	419	370	81	89	20	19	18	24	12
22	19	231	157	372	430	111	60	25	17	12	33	12
23	71	225	71	328	429	184	36	31	17	11	50	13
24	209	226	54	355	388	261	25	30	15	14	34	16
25	343	232	62	488	408	228	23	28	11	16	15	13
26	435	237	31	569	414	192	18	20	9.4	15	11	11
27	482	243	19	653	378	160	16	16	7.4	49	7.4	11
28	503	250	26	725	411	116	13	15	7.4	34	5.9	14
29	517	261	34	752	---	79	11	14	11	20	22	13
30	528	279	39	750	---	58	12	13	17	17	39	10
31	536	---	31	724	---	50	---	12	---	13	36	---
TOTAL	3870.8	10516	6321	11770	12858	7643	1155	5020	684.2	539.3	536.3	379.0
MEAN	125	351	204	380	459	247	38.5	162	22.8	17.4	17.3	12.6
MAX	536	521	312	752	686	499	89	476	46	49	50	20
MIN	6.3	225	19	22	370	50	11	12	7.4	7.3	5.3	4.4
AC-FT	7680	20860	12540	23350	25500	15160	2290	9960	1360	1070	1060	752
CAL YR 1977	TOTAL	122757.7	MEAN	336	MAX	2110	MIN	5.4	AC-FT	243500		
WTR YR 1978	TOTAL	61292.6	MEAN	168	MAX	752	MIN	4.4	AC-FT	121600		

RED RIVER BASIN

07349500 BODCAU BAYOU NEAR SAREPTA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.44	8.35	6.54	2.68	9.48	7.55	3.12	2.43	2.22	2.27	1.95	2.44
2	2.45	8.17	6.67	2.59	8.95	7.77	2.99	2.73	2.84	2.42	1.89	2.22
3	2.45	8.10	6.65	3.16	8.36	7.84	2.93	3.63	2.81	2.29	2.12	2.36
4	2.18	8.06	6.58	4.88	8.26	8.00	2.91	5.64	2.78	2.36	2.18	2.45
5	2.04	8.00	6.51	5.29	8.32	7.89	2.99	6.74	2.77	2.44	2.28	2.15
6	2.03	7.84	6.22	5.34	8.44	7.58	3.05	6.87	2.90	2.31	2.35	1.88
7	2.06	7.61	6.01	5.35	8.45	7.64	3.30	7.98	3.16	2.21	2.30	1.83
8	2.03	7.44	6.04	5.62	8.37	8.12	3.28	7.04	3.20	2.19	2.21	2.07
9	2.20	7.40	6.10	6.10	8.17	8.18	3.15	6.43	2.98	2.15	2.19	2.10
10	2.22	7.36	6.12	6.85	7.92	7.76	3.16	5.81	2.80	2.42	2.28	2.06
11	2.10	7.33	6.16	7.02	7.75	6.95	3.77	4.93	2.87	2.48	2.24	2.17
12	2.03	7.33	6.09	7.20	7.77	5.88	3.72	6.38	3.23	2.40	2.23	2.19
13	2.04	7.36	6.32	7.32	7.92	5.23	3.20	7.44	3.19	2.40	2.25	2.27
14	2.05	7.33	6.52	7.30	7.98	5.18	2.41	8.00	2.58	2.32	2.27	2.38
15	2.02	7.24	6.52	7.25	7.80	4.87	2.23	8.01	2.29	2.33	2.27	2.38
16	2.10	7.11	6.44	7.21	7.50	4.70	2.53	7.05	2.19	2.41	2.16	2.32
17	2.34	7.00	6.40	7.43	7.32	4.46	2.65	5.17	2.13	2.41	2.01	2.27
18	2.41	6.87	6.35	7.85	7.36	4.17	3.49	3.82	2.37	2.10	2.03	2.19
19	2.37	6.64	6.33	8.02	7.27	3.88	3.26	3.18	2.50	2.00	2.31	2.08
20	2.34	6.27	6.07	7.87	7.24	3.76	3.96	2.56	2.46	2.25	2.48	2.05
21	2.32	5.96	5.85	7.58	7.18	3.89	4.00	2.53	2.40	2.37	2.54	2.17
22	2.50	5.84	4.92	7.20	7.66	4.33	3.50	2.69	2.35	2.18	2.79	2.18
23	3.66	5.77	3.71	6.82	7.65	5.29	2.99	2.88	2.34	2.12	3.21	2.20
24	5.56	5.78	3.39	7.06	7.32	6.17	2.69	2.84	2.27	2.24	2.83	2.30
25	6.93	5.85	3.54	8.10	7.49	5.81	2.62	2.80	2.15	2.31	2.29	2.23
26	7.70	5.90	2.87	8.68	7.54	5.39	2.45	2.53	2.08	2.29	2.14	2.12
27	8.06	5.97	2.51	9.26	7.24	4.99	2.39	2.41	2.01	3.14	2.00	2.13
28	8.22	6.04	2.73	9.74	7.51	4.40	2.31	2.37	2.01	2.82	1.93	2.25
29	8.32	6.16	2.96	9.92	---	3.84	2.23	2.35	2.15	2.45	2.48	2.22
30	8.39	6.34	3.07	9.91	---	3.48	2.26	2.30	2.34	2.33	2.94	2.12
31	8.45	---	2.87	9.73	---	3.31	---	2.24	---	2.20	2.88	---
MEAN	3.68	6.95	5.32	6.98	7.87	5.75	2.98	4.51	2.55	2.34	2.32	2.19
MAX	8.45	8.35	6.67	9.92	9.48	8.18	4.00	8.01	3.23	3.14	3.21	2.45
MIN	2.02	5.77	2.51	2.59	7.18	3.31	2.23	2.24	2.01	2.00	1.89	1.83

RED RIVER BASIN

63

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), 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 hm³). Records of dissolved oxygen and water temperatures for the water year 1978 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 discharge above base of 900 ft³/s (25 m³/s), no peak above the base. Maximum discharge, 254 ft³/s (7.19 m³/s) May 13, gage height, 7.10 ft (2.164 m); minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12		.02	4.1	37	30	23	.98	.54	0		
2	.08		7.0	3.7	51	37	21	.70	.58	0		
3	.07		5.9	2.8	45	40	19	39	.45	0		
4	.04		2.3	2.2	34	39	16	94	.39	0		
5	.04		.72	1.9	26	31	15	71	.37	0		
6	.02		.39	1.3	21	23	13	52	.75	3.4		
7	.01		.33	1.2	18	63	12	135	4.9	.85		
8	0		.32	3.1	15	158	11	196	3.7	.30		
9	0		.46	5.0	14	133	9.6	118	1.6	.16		
10	0		.53	3.7	12	81	14	55	.73	.08		
11	0		.54	3.2	11	61	70	35	.51	.04		
12	0		.53	5.1	12	51	84	185	.38	.02		
13	0		2.9	7.1	42	46	49	253	.31	0		
14	0		16	8.6	61	55	28	213	.27	0		
15	0		17	8.5	45	73	18	86	.22	0		
16	0		13	14	29	58	12	46	.18	0		
17	0		7.2	51	26	43	15	32	.15	0		
18	0		3.9	60	51	30	99	24	.13	0		
19	0		2.6	30	61	25	66	19	.10	0		
20	0		1.9	19	48	22	33	16	.07	0		
21	0		1.8	15	35	23	18	13	.05	0		
22	0		1.3	13	27	37	11	11	.04	0		
23	0		.81	11	22	43	7.4	8.9	.03	0		
24	0		.56	53	17	64	5.3	5.9	.01	0		
25	0		.54	132	15	119	4.8	4.2	0	0		
26	0		.64	125	14	92	4.6	3.1	0	0		
27	0		.65	84	13	59	4.0	2.1	0	0		
28	0		.67	51	16	45	2.5	2.1	0	0		
29	0		.99	36	---	36	1.7	1.2	0	0		
30	0		3.5	28	---	31	1.2	.82	0	0		
31	0	---	4.6	26	---	27	---	.65	---	0		---
TOTAL	.38	0	99.60	809.5	818	1675	688.1	1723.65	16.46	4.85	0	0
MEAN	.012	0	3.21	26.1	29.2	54.0	22.9	55.6	.55	.16	0	0
MAX	.12	0	17	132	61	158	99	253	4.9	3.4	0	0
MIN	0	0	.02	1.2	11	22	1.2	.65	0	0	0	0
AC-FT	.8	0	198	1610	1620	3320	1360	3420	33	9.6	0	0
CAL YR 1977	TOTAL	8979.60	MEAN	24.6	MAX	555	MIN	0	AC-FT	17810		
WTR YR 1978	TOTAL	5835.54	MEAN	16.0	MAX	253	MIN	0	AC-FT	11570		

RED RIVER BASIN

07349795 CYPRESS BAYOU ABOVE BENTON, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.95	1.16	1.23	2.69	3.88	3.71	3.36	2.29	2.15	1.51	1.29	.75
2	1.94	1.16	2.85	2.66	4.23	3.87	3.29	2.23	2.16	1.46	1.25	.72
3	1.91	1.16	2.79	2.58	4.07	3.96	3.22	3.72	2.13	1.44	1.20	.70
4	1.88	1.15	2.53	2.52	3.79	3.94	3.12	5.04	2.11	---	1.16	.69
5	1.86	1.16	2.29	2.49	3.57	3.73	3.06	4.58	2.10	---	1.16	.67
6	1.84	1.16	2.19	2.41	3.40	3.48	3.01	4.18	2.18	---	1.16	.63
7	1.81	1.16	2.16	2.40	3.29	4.39	2.96	5.65	2.54	---	1.15	.58
8	1.78	1.16	2.15	2.59	3.21	5.94	2.90	6.51	2.48	---	1.15	.55
9	1.74	1.16	2.22	2.75	3.15	5.69	2.85	5.40	2.31	---	1.15	.52
10	1.72	1.16	2.24	2.66	3.09	4.79	3.01	4.18	2.20	---	1.05	.49
11	1.69	1.16	2.25	2.62	3.05	4.37	4.54	3.66	2.15	---	.89	.46
12	1.65	1.16	2.24	2.75	3.07	4.14	4.85	6.33	2.11	---	.86	.46
13	1.61	1.16	2.51	2.86	3.98	4.01	4.08	7.09	2.08	---	.85	.46
14	1.57	1.16	3.24	2.94	4.43	4.24	3.52	6.68	2.05	1.72	.82	.48
15	1.54	1.16	3.26	2.93	4.07	4.63	3.20	4.83	2.02	1.68	.72	.48
16	1.50	1.16	3.12	3.15	3.66	4.30	2.96	3.97	1.99	1.64	.66	.45
17	1.46	1.16	2.87	4.21	3.55	3.93	3.03	3.57	1.98	1.58	.60	.41
18	1.43	1.16	2.67	4.41	4.22	3.60	5.11	3.30	1.96	1.53	.55	.37
19	1.40	1.16	2.56	3.69	4.44	3.42	4.48	3.12	1.93	1.47	.50	.32
20	1.36	1.16	2.49	3.34	4.16	3.34	3.66	3.00	1.90	1.42	.45	.29
21	1.33	1.16	2.49	3.21	3.82	3.35	3.19	2.88	1.88	1.36	.41	.25
22	1.29	1.16	2.42	3.10	3.59	3.79	2.91	2.79	1.87	1.31	.42	.19
23	1.26	1.16	2.32	3.06	3.42	3.95	2.74	2.72	1.85	1.28	.48	.14
24	1.23	1.16	2.25	4.17	3.27	4.41	2.64	2.60	1.82	1.24	.43	.11
25	1.21	1.16	2.25	5.67	3.19	5.47	2.61	2.51	1.78	1.19	.39	.09
26	1.18	1.16	2.28	5.56	3.14	5.00	2.60	2.45	1.73	1.16	.33	.06
27	1.16	1.16	2.28	4.88	3.10	4.32	2.57	2.37	1.69	1.43	.29	.03
28	1.16	1.16	2.28	4.22	3.23	4.00	2.46	2.37	1.64	1.47	.25	.00
29	1.16	1.16	2.35	3.85	---	3.76	2.39	2.27	1.60	1.43	.75	-.04
30	1.16	1.16	2.64	3.64	---	3.62	2.32	2.22	1.55	1.39	.85	-.06
31	1.16	---	2.72	3.58	---	3.48	---	2.18	---	1.34	.82	---
MEAN	1.51	1.16	2.46	3.34	3.61	4.15	3.22	3.76	2.00	---	.78	.38
MAX	1.95	1.16	3.26	5.67	4.44	5.94	5.11	7.09	2.54	---	1.29	.75
MIN	1.16	1.15	1.23	2.40	3.05	3.34	2.32	2.18	1.55	---	.25	-.06

RED RIVER BASIN

65

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) National Geodetic Vertical Datum of 1929 (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, 10.16 ft (3.097 m) May 7; minimum, 7.83 ft (2.387 m) Dec. 8.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.32	7.97	7.95	8.03	8.96	9.54	9.66	9.54	9.49	9.11	8.89	8.59
2	8.34	7.97	7.94	8.03	8.99	9.56	9.65	9.54	9.63	9.08	8.86	8.58
3	8.30	7.96	7.94	8.01	9.03	9.61	9.64	9.62	9.62	9.06	8.85	8.57
4	8.26	7.95	7.95	8.01	9.05	9.60	9.63	9.62	9.59	9.18	8.84	8.58
5	8.24	7.95	7.95	8.00	9.07	9.59	9.62	9.65	9.57	9.17	8.81	8.57
6	8.23	7.94	7.93	8.01	9.08	9.59	9.62	9.67	9.55	9.15	8.81	8.56
7	8.21	7.93	7.91	8.02	9.07	9.67	9.61	10.16	9.61	9.12	8.79	8.54
8	8.19	7.90	7.89	8.15	9.10	9.69	9.61	10.15	9.61	9.11	8.77	8.60
9	8.19	8.01	7.95	8.09	9.09	9.73	9.59	10.13	9.59	9.08	8.75	8.60
10	8.18	8.00	7.92	8.06	9.10	9.76	9.59	10.06	9.54	9.06	8.73	8.58
11	8.19	7.96	7.89	8.05	9.11	9.73	9.69	9.96	9.52	9.04	8.71	8.56
12	8.16	7.95	7.88	8.12	9.11	9.74	9.68	10.02	9.52	9.02	8.69	8.55
13	8.14	7.94	7.94	8.12	9.23	9.73	9.70	10.10	9.51	8.99	8.67	8.56
14	8.12	7.92	8.03	8.13	9.23	9.75	9.68	10.10	9.47	8.96	8.65	8.59
15	8.11	7.92	8.02	8.11	9.24	9.74	9.67	10.08	9.44	8.96	8.63	8.62
16	8.10	7.91	8.03	8.13	9.28	9.72	9.65	9.99	9.42	8.94	8.60	8.61
17	8.08	7.96	8.06	8.25	9.31	9.70	9.64	9.89	9.41	8.90	8.58	8.60
18	8.07	7.90	8.05	8.26	9.38	9.69	9.74	9.82	9.38	8.87	8.56	8.58
19	8.06	7.89	8.04	8.36	9.40	9.67	9.76	9.78	9.37	8.85	8.53	8.57
20	8.05	7.88	8.05	8.36	9.43	9.65	9.73	9.74	9.34	8.83	8.52	8.56
21	8.04	7.92	8.06	8.37	9.47	9.68	9.73	9.71	9.33	8.80	8.50	8.55
22	8.03	7.90	8.01	8.38	9.45	9.67	9.68	9.67	9.31	8.76	8.48	8.55
23	8.03	7.89	8.00	8.39	9.51	9.66	9.66	9.64	9.29	8.75	8.47	8.51
24	8.02	7.90	7.99	8.50	9.47	9.73	9.64	9.61	9.27	8.73	8.45	8.49
25	8.02	7.89	8.01	8.56	9.49	9.74	9.66	9.61	9.24	8.71	8.43	8.48
26	8.02	7.88	8.00	8.68	9.49	9.75	9.61	9.59	9.21	8.68	8.41	8.46
27	8.01	7.87	7.99	8.74	9.48	9.75	9.58	9.57	9.20	8.98	8.38	8.43
28	8.00	7.88	7.98	8.80	9.53	9.73	9.57	9.56	9.17	8.97	8.36	8.42
29	7.99	7.90	8.01	8.83	---	9.71	9.55	9.54	9.16	8.96	8.66	8.41
30	7.98	7.92	8.02	8.87	---	9.70	9.55	9.53	9.14	8.94	8.63	8.40
31	7.97	---	8.02	8.90	---	9.69	---	9.51	---	8.91	8.61	---
MEAN	8.12	7.93	7.98	8.30	9.26	9.69	9.65	9.78	9.42	8.96	8.63	8.54
MAX	8.34	8.01	8.06	8.90	9.53	9.76	9.76	10.16	9.63	9.18	8.89	8.62
MIN	7.97	7.87	7.88	8.00	8.96	9.54	9.55	9.51	9.14	8.68	8.36	8.40

RED RIVER BASIN

07349890 RED CHUTE BAYOU NEAR ELM GROVE, LA

LOCATION.--Lat 32°21'45", long 93°30'10", in sec.21, T.16 N., R.11 W., Bossier Parish, Hydrologic Unit 11140204, near center of span on downstream side of bridge on State Highway 154, 0.8 mi (1.3 km) downstream from Cross Bayou, and 3.0 mi (4.8 km) northeast of Elm Grove.

DRAINAGE AREA.--1,004 mi² (2,600 km²).

PERIOD OF RECORD.--December 1959 to November 1977 (annual maximum elevations only). November 1977 to September 1978 (annual maximum gage height and discharge below 400 ft³/s or 11.33 m³/s only).

GAGE.--Water-stage recorder. Datum of gage is 118.00 ft (35.966 m) National Geodetic Vertical Datum of 1929. Prior to November 1977, crest-stage gage at same site at datum 118.00 ft (35.966 m) higher.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 34.73 ft (10.586 m), present datum, Apr. 30, 1973; minimum discharge, 14 ft³/s (0.40 m³/s) Aug. 27, 28, 1978, gage height, 1.42 ft (0.433 m).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.18 ft (4.627 m) May 8; minimum discharge for period November 1977 to September 1978, 14 ft³/s (0.40 m³/s) Aug. 27, 28, gage height, 1.42 ft (0.433 m).

DISCHARGE, IN CUBIC FEET PER SECOND, NOVEMBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			318	228				106	324	32	43	56
2			304	210				93	248	31	48	50
3			286	196				90	228	30	54	48
4			279	182				121	211	28	53	53
5			273	167				101	161	31	49	69
6			270	155			343	97	128	34	46	52
7			270	145			264		130	34	42	42
8			272	138			198		150	33	39	38
9			273	151			153		197	31	35	35
10			276	132			136		210	30	33	44
11			279	117			328		202	30	29	38
12			278	110			388		181	33	27	34
13			304	117			290		193	36	24	32
14				115			252		309	30	22	37
15			352	107			227		327	30	21	54
16			314	125			210		298	33	20	58
17			300	298			196		284	29	20	41
18		354	296	282			201		263	26	18	34
19		348	291	269			315		189	25	18	31
20		336	288	296			310		119	24	18	28
21		340	285	321			285		73	24	18	26
22		324	284	340			266		56	23	17	24
23		315	282	360			246		52	22	16	22
24		303	280				227		48	23	16	21
25		296	278				204		44	24	16	20
26		288	273				188		41	23	16	19
27		280	266				171		38	55	15	18
28		274	259				155		36	332	17	18
29		279	253				139		34	120	94	18
30		291	249				122	383	33	60	267	18
31		---	245				---	365	---	45	110	---
TOTAL		---	---	---			---	---	4807	1361	1261	1078
MEAN		---	---	---			---	---	160	43.9	40.7	35.9
MAX		---	---	---			---	---	327	332	267	69
MIN		274	245	107			122	90	33	22	15	18

RED RIVER BASIN

67

07349890 RED CHUTE BAYOU NEAR ELM GROVE, LA--Continued

GAGE HEIGHT, IN FEET, NOVEMBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			4.22	3.60	5.69	5.47	6.80	2.60	4.26	1.75	1.91	2.07
2			4.13	3.47	5.90	5.40	6.59	2.47	3.74	1.73	1.98	2.00
3			4.01	3.36	5.76	5.35	6.16	2.44	3.60	1.71	2.05	1.97
4			3.96	3.25	5.74	5.30	5.51	2.74	3.48	1.69	2.04	2.04
5			3.92	3.13	5.78	5.24	4.92	2.55	3.08	1.74	1.99	2.22
6			3.90	3.03	5.82	5.21	4.38	2.51	2.80	1.78	1.95	2.02
7			3.90	2.95	5.84	5.26	3.86	11.91	2.82	1.79	1.90	1.90
8			3.91	2.89	5.86	5.45	3.38	15.08	2.99	1.77	1.86	1.84
9			3.92	3.00	5.87	5.42	3.02	14.53	3.37	1.74	1.80	1.80
10			3.94	2.84	5.87	5.43	2.84	12.80	3.47	1.72	1.77	1.93
11			3.96	2.70	5.87	5.47	4.29	10.96	3.41	1.71	1.70	1.84
12			3.95	2.64	5.99	5.73	4.66	10.67	3.25	1.77	1.66	1.78
13			4.13	2.70	6.69	6.01	4.03	11.94	3.34	1.81	1.61	1.75
14			4.87	2.68	6.36	6.19	3.77	10.36	4.16	1.72	1.58	1.83
15			4.44	2.61	6.08	6.36	3.59	9.40	4.28	1.72	1.55	2.05
16			4.19	2.77	5.98	6.28	3.47	8.81	4.09	1.77	1.53	2.10
17			4.10	4.09	5.95	6.18	3.36	8.38	3.99	1.70	1.52	1.88
18		4.45	4.07	3.98	6.21	6.05	3.40	8.00	3.85	1.65	1.50	1.79
19		4.41	4.04	3.89	6.20	5.88	4.20	7.70	3.31	1.62	1.49	1.73
20		4.34	4.02	4.07	6.05	5.69	4.17	7.45	2.72	1.60	1.48	1.68
21		4.36	4.00	4.24	5.99	5.52	4.00	7.26	2.27	1.60	1.48	1.64
22		4.26	3.99	4.36	5.93	5.38	3.87	7.03	2.08	1.59	1.47	1.61
23		4.20	3.98	4.48	5.84	5.22	3.73	6.87	2.03	1.58	1.46	1.58
24		4.12	3.97	6.30	5.76	5.54	3.59	6.66	1.98	1.59	1.46	1.55
25		4.07	3.95	6.76	5.68	5.66	3.42	6.41	1.93	1.60	1.46	1.52
26		4.02	3.92	6.18	5.61	5.06	3.30	6.07	1.89	1.59	1.45	1.51
27		3.97	3.87	5.65	5.52	4.84	3.17	5.70	1.84	2.06	1.43	1.50
28		3.93	3.82	5.42	5.47	5.82	3.03	5.36	1.81	4.31	1.47	1.50
29		3.96	3.78	5.36	---	7.10	2.90	4.98	1.79	2.73	2.48	1.49
30		4.04	3.75	5.35	---	7.38	2.75	4.63	1.77	2.12	3.88	1.48
31		---	3.72	5.35	---	7.08	---	4.52	---	1.94	2.64	---
MEAN		---	4.01	3.97	5.90	5.74	4.01	7.38	2.98	1.85	1.79	1.79
MAX		---	4.87	6.76	6.69	7.38	6.80	15.08	4.28	4.31	3.88	2.22
MIN		---	3.72	2.61	5.47	4.84	2.75	2.44	1.77	1.58	1.43	1.48

RED RIVER BASIN

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) National Geodetic Vertical Datum of 1929 (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) National Geodetic Vertical Datum of 1929 (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 discharge, 32,600 ft³/s (923 m³/s) May 4, 1958; maximum gage height, 47.83 ft (14.579 m) May 8, 1958; minimum discharge, no flow at times (backwater from Red River); minimum gage height, 9.46 ft (2.883 m) Oct. 23-25, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 26.56 ft (8.096 m) May 9; minimum, 12.04 ft (3.670 m) Aug. 19.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.65	13.98	13.87	13.38	19.08	18.29	23.76	16.33	15.67	16.80	12.46	13.11
2	13.90	14.09	14.02	13.47	18.89	18.32	23.54	16.05	16.23	16.68	12.41	13.47
3	14.21	14.41	14.21	13.52	18.60	18.39	23.10	16.10	15.83	16.55	12.39	13.87
4	14.36	14.61	14.55	13.42	18.34	18.35	22.26	16.27	15.06	16.22	12.42	13.72
5	13.97	15.45	14.87	13.20	18.18	18.02	21.50	16.44	14.84	15.39	12.43	13.33
6	13.78	16.34	14.73	---	17.99	17.66	20.71	16.60	14.80	14.44	12.41	13.03
7	13.79	16.57	14.53	---	17.58	17.55	19.99	21.43	15.69	13.92	12.38	12.73
8	13.87	16.26	14.48	---	18.20	17.75	19.24	24.38	16.15	13.57	12.37	12.83
9	13.75	16.04	14.20	---	18.46	17.98	18.50	26.50	15.82	13.38	12.44	13.14
10	13.72	15.86	13.97	---	---	17.86	17.84	26.33	15.56	13.27	12.45	13.27
11	13.73	15.80	13.81	---	---	18.49	17.86	25.67	16.80	13.18	12.38	13.02
12	13.66	15.79	13.80	---	---	20.47	17.95	24.90	18.32	13.08	12.32	12.59
13	13.52	15.90	13.75	---	---	20.96	17.64	25.47	19.86	12.96	12.24	12.40
14	13.29	15.61	13.81	---	---	21.50	17.06	25.33	21.56	12.85	12.18	12.32
15	13.43	15.24	13.91	13.54	16.49	21.79	16.98	24.92	21.79	13.72	12.15	12.34
16	13.49	14.97	14.24	13.43	16.42	21.59	17.92	23.62	21.59	12.63	12.13	12.42
17	13.47	15.43	14.30	13.01	16.40	21.35	18.44	22.98	21.49	12.60	12.10	12.47
18	13.42	15.89	14.32	14.00	16.57	21.03	18.65	21.72	21.43	12.59	12.08	12.38
19	13.42	15.32	14.24	15.65	17.51	20.50	19.19	21.01	20.89	12.57	12.06	12.33
20	13.54	14.76	14.06	17.16	18.63	20.03	18.77	20.39	19.82	12.60	12.05	12.26
21	13.56	14.54	13.92	17.81	19.26	19.72	18.08	19.88	19.48	12.75	12.10	12.20
22	13.49	14.41	13.96	17.75	19.30	19.54	17.63	19.22	19.03	12.76	12.09	12.17
23	13.44	14.21	14.14	17.46	18.99	19.24	17.23	18.69	18.53	12.67	12.09	12.20
24	13.29	14.13	14.23	17.63	18.79	19.19	16.79	18.30	18.18	12.51	12.06	12.28
25	13.30	13.66	14.04	18.03	18.61	19.43	16.29	17.96	18.07	12.33	12.08	12.33
26	13.36	13.10	13.63	18.70	18.57	19.25	16.14	17.48	17.94	12.40	12.11	12.26
27	13.35	13.49	13.51	19.28	18.35	19.34	15.85	16.75	17.84	12.46	12.12	12.14
28	13.36	13.85	13.53	19.64	18.21	22.37	16.42	16.51	17.75	13.05	12.23	12.08
29	13.33	13.85	13.45	19.84	---	24.18	16.85	16.35	17.17	13.48	12.96	12.08
30	13.30	13.85	13.45	19.68	---	24.58	16.43	15.98	16.83	12.91	13.45	12.06
31	13.70	---	13.44	19.33	---	24.14	---	15.78	---	12.61	13.39	---
MEAN	13.60	14.91	14.03	---	---	19.96	18.62	20.17	18.00	13.51	12.34	12.63
MAX	14.36	16.57	14.87	19.84	---	24.58	23.76	26.50	21.79	16.80	13.45	13.87
MIN	13.29	13.10	13.44	---	16.40	17.55	15.85	15.78	14.80	12.33	12.05	12.06

NOTE.--Gage heights Oct. 4 to Jan. 5, Jan. 15 to Feb. 9, and Feb. 15 to July 26 are from graph based on once-daily wire-weight gage readings.

RED RIVER BASIN

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07351600 BAYOU PIERRE NEAR GRAND BAYOU, LA

LOCATION.--Lat 32°04'41", long 93°30'36", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.13 N., R.11 W., DeSoto Parish, Hydrologic Unit 11140206, near left bank on downstream side of bridge on U.S. Highway 84, 0.7 mi (1.1 km) upstream from Bailey Bayou, and 2.8 mi (4.5 km) west of the village of Grand Bayou.

DRAINAGE AREA.--661 mi² (1,712 km²).

PERIOD OF RECORD.--October 1977 to September 1978 (annual maximum gage height and discharge below 400 ft³/s or 11.33 m³/s only).
October 1946 to November 1954, August 1956 to August 1957, and since September 1960, in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 101.13 ft (30.824 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

COOPERATION.--Gage-height record furnished by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.21 ft (5.855m) May 9; minimum daily discharge, 14 ft³/s (0.40 m³/s) July 21, 22; minimum gage height, 4.78 ft (1.457 m) July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	27	49	38		168	142	34	93	16	345	222
2	26	31	80	28		160	111	32	185	15	258	135
3	25	31	76	26		150	91	34	160	16	195	111
4	24	32	49	24	370	145	76	65	103	15	142	97
5	24	34	38	24	325	128	65	122	70	15	107	93
6	24	30	32	27	298	118	52	103	55	16	93	91
7	24	31	27	175	268	200	48		195	16	78	80
8	25	34	24	348	250	230	43		130	16	67	62
9	25	32	24	330	225	238	38		89	16	57	81
10	26	28	24	320	218	190	42		70	16	49	80
11	29	62	30	310	200	162	125		57	15	46	76
12	26	49	28	305	245	150	400		49	16	46	72
13	26	34	58	300		142	345		40	16	44	70
14	26	27	69	295		150	320		35	15	43	99
15	25	24	170	255		162	300		28	15	38	195
16	24	24	172	335	372	150	268		25	16	43	300
17	24	23	103		352	165	225		24	34	36	252
18	24	22	83		368	180	190		23	23	34	172
19	25	23	65		390	162	175		23	17	31	130
20	24	22	58	368	350	145	152		22	16	30	99
21	24	34	48	350	315	160	113		22	14	30	80
22	25	50	43	330	280	155	87		22	14	28	62
23	25	65	34	320	255	148	72		23	54	27	54
24	27	69	32		235	340	65	380	23	69	26	43
25	32	65	28		220		54	308	21	74	30	38
26	30	49	26		200		48	250	19	91	27	30
27	26	35	24		180	348	43	198	18	242	25	26
28	28	28	23		175	300	39	225	16		24	24
29	28	30	24		---	255	38	245	17		230	21
30	26	40	24		---	210	35	152	17		168	18
31	24	---	35		---	175	---	109	---		308	---
TOTAL	798	1085	1600	---	---	---	3802	---	1674	---	2705	2913
MEAN	25.7	36.2	51.6	---	---	---	127	---	55.8	---	87.3	97.1
MAX	32	69	172	---	---	---	400	---	195	---	345	300
MIN	24	22	23	24	175	118	35	32	16	14	24	18

RED RIVER BASIN

07351600 BAYOU PIERRE NEAR GRAND BAYOU, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.93	4.93	5.10	5.02	7.08	5.67	5.57	4.99	5.35	4.80	6.38	5.88
2	4.92	4.97	5.28	4.94	7.00	5.64	5.44	4.98	5.74	4.79	6.03	5.50
3	4.91	4.97	5.26	4.92	6.72	5.60	5.34	4.99	5.64	4.80	5.78	5.38
4	4.90	4.98	5.10	4.90	6.48	5.58	5.26	5.20	5.40	4.79	5.57	5.30
5	4.90	4.99	5.02	4.90	6.30	5.51	5.20	5.49	5.23	4.79	5.42	5.28
6	4.90	4.96	4.98	4.93	6.19	5.47	5.12	5.40	5.14	4.80	5.35	5.27
7	4.90	4.97	4.93	5.70	6.07	5.80	5.09	9.33	5.78	4.80	5.27	5.21
8	4.91	4.99	4.90	6.39	6.00	5.92	5.06	15.49	5.52	4.80	5.21	5.11
9	4.91	4.98	4.90	6.32	5.90	5.95	5.02	18.75	5.33	4.80	5.15	5.22
10	4.92	4.94	4.90	6.28	5.87	5.76	5.05	18.46	5.23	4.80	5.10	5.21
11	4.95	5.18	4.96	---	5.80	5.65	5.50	16.37	5.15	4.79	5.08	5.19
12	4.92	5.10	4.94	---	5.98	5.60	6.60	14.68	5.10	4.80	5.08	5.17
13	4.92	4.99	5.16	6.20	7.04	5.57	6.38	15.86	5.04	4.80	5.07	5.16
14	4.92	4.93	5.22	6.18	7.03	5.60	6.28	15.39	5.00	4.79	5.06	5.33
15	4.91	4.90	5.68	6.02	6.70	5.65	6.20	13.75	4.94	4.79	5.02	5.86
16	4.90	4.90	5.69	6.34	6.49	5.60	6.07	12.06	4.91	4.82	5.06	6.28
17	4.90	4.89	5.40	6.62	6.41	5.66	5.90	10.45	4.90	5.00	5.01	6.11
18	4.90	4.88	5.30	6.68	6.47	5.72	5.76	9.27	4.89	4.91	4.99	5.84
19	4.91	4.89	5.20	6.65	6.56	5.65	5.70	8.41	4.89	4.84	4.97	5.69
20	4.90	4.88	5.16	6.47	6.40	5.58	5.61	7.81	4.88	4.84	4.96	5.57
21	4.90	4.99	5.09	---	6.26	5.64	5.45	7.39	4.88	4.82	4.96	5.49
22	4.91	5.11	5.06	---	6.12	5.62	5.32	7.06	4.88	4.83	4.94	5.40
23	4.91	5.20	4.99	---	6.02	5.59	5.24	6.80	4.89	5.19	4.93	5.36
24	4.93	5.22	4.98	8.42	5.94	6.36	5.20	6.52	4.89	5.28	4.92	5.30
25	4.98	5.20	4.94	9.00	5.88	6.80	5.13	6.23	4.87	5.31	4.96	5.26
26	4.96	5.10	4.92	8.48	5.80	6.68	5.09	6.00	4.84	5.40	4.93	5.20
27	4.92	5.00	4.90	7.58	5.72	6.39	5.06	5.79	4.83	6.01	4.91	5.16
28	4.94	4.94	4.89	7.08	5.70	6.20	5.03	5.90	4.81	7.18	4.90	5.14
29	4.94	4.96	4.90	6.76	---	6.02	5.02	5.98	4.82	7.61	5.92	5.11
30	4.92	5.04	4.90	6.64	---	5.84	5.00	5.61	4.82	7.28	5.67	5.07
31	4.90	---	5.00	6.64	---	5.70	---	5.43	---	6.77	6.23	---
MEAN	4.92	5.00	5.09	---	6.28	5.81	5.46	9.22	5.09	5.23	5.25	5.40
MAX	4.98	5.22	5.69	9.00	7.08	6.80	6.60	18.75	5.78	7.61	6.38	6.28
MIN	4.90	4.88	4.89	4.90	5.70	5.47	5.00	4.98	4.81	4.79	4.90	5.07

RED RIVER BASIN

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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 (0.6 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) National Geodetic Vertical Datum of 1929 (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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--39 years (1939-78), 69.0 ft³/s (1.95 m³/s), 11.86 in/yr (301 mm/yr), 49,990 acre-ft/yr (61.6 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: May 7 (1100), 4,800 ft³/s (136 m³/s), gage height, 17.90 ft (5.456 m); minimum daily discharge, 0.22 ft³/s (0.006 m³/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	2.3	5.8	11	24	8.7	5.1	4.9	2.5	1.3	2.2	.22
2	.55	2.5	6.2	10	27	8.7	6.0	4.8	2.9	1.1	1.9	.26
3	.48	2.4	5.9	9.0	20	8.6	7.1	11	3.0	.99	1.6	1.2
4	.42	2.3	5.5	9.0	14	7.6	8.3	8.8	3.1	1.9	1.5	1.1
5	.47	2.4	5.0	10	15	6.8	8.6	7.6	3.0	3.8	1.2	.56
6	.51	2.5	4.5	11	16	6.6	8.0	7.1	2.9	2.8	1.1	.37
7	.56	2.6	4.0	10	18	11	8.7	3400	4.1	3.7	1.1	.51
8	.65	3.2	5.0	9.5	19	12	9.0	1640	4.6	2.9	.96	1.5
9	.77	3.2	5.0	9.5	18	11	8.7	305	4.8	2.4	.84	1.4
10	.88	2.5	4.5	10	18	8.5	25	44	4.0	2.1	.72	.77
11	.99	3.0	4.5	14	17	7.3	300	12	2.9	2.0	.60	.58
12	1.1	3.2	9.0	20	20	6.8	191	206	2.9	1.9	.48	.70
13	1.2	3.2	16	20	36	6.9	29	380	2.9	1.8	.52	.92
14	1.1	3.1	30	19	36	8.3	7.3	170	2.8	1.6	1.2	4.9
15	1.2	3.3	25	18	19	11	4.8	23	2.7	1.9	.97	5.2
16	1.4	3.3	20	50	14	9.6	4.4	6.8	2.6	2.1	.91	1.4
17	1.5	3.7	15	63	14	7.5	4.2	4.1	2.7	1.7	.90	.57
18	1.5	3.9	12	56	25	6.5	9.7	3.3	3.0	1.5	.81	.37
19	1.6	4.1	11	48	25	6.2	9.4	3.0	2.5	1.4	.75	.32
20	1.6	4.4	10	43	15	6.0	5.1	2.4	2.2	1.2	.70	.52
21	1.4	4.8	9.0	41	11	6.9	3.7	2.0	2.0	1.1	.64	.49
22	1.4	5.1	8.5	37	10	7.3	3.4	2.3	1.9	1.2	.58	.40
23	1.4	4.9	8.0	35	10	8.2	4.0	2.6	1.8	1.6	.57	.30
24	1.5	5.1	7.5	57	9.4	54	4.4	2.7	1.7	1.8	.54	.36
25	1.5	5.5	7.5	66	9.6	88	4.5	2.8	1.6	1.9	.55	.41
26	1.4	5.1	8.5	43	9.4	20	4.6	2.8	1.5	2.2	.51	.38
27	1.4	4.8	9.5	27	9.1	8.1	4.7	2.5	1.4	11	.48	.37
28	1.5	4.6	11	17	8.8	5.5	4.6	2.4	1.4	15	.50	.34
29	1.7	5.2	14	13	---	4.5	5.0	2.4	1.3	4.7	8.6	.32
30	1.9	6.5	15	16	---	4.0	4.9	2.3	1.3	3.4	6.4	.33
31	2.0	---	13	17	---	4.1	---	2.3	---	2.6	.45	---
TOTAL	36.16	112.7	315.4	819.0	487.3	376.2	703.2	6270.9	78.0	86.59	40.78	27.07
MEAN	1.17	3.76	10.2	26.4	17.4	12.1	23.4	202	2.60	2.79	1.32	.90
MAX	2.0	6.5	30	66	36	88	300	3400	4.8	15	8.6	5.2
MIN	.42	2.3	4.0	9.0	8.8	4.0	3.4	2.0	1.3	.99	.45	.22
CFSM	.01	.05	.13	.33	.22	.15	.30	2.56	.03	.04	.02	.01
IN.	.02	.05	.15	.39	.23	.18	.33	2.95	.04	.04	.02	.01
AC-FT	72	224	626	1620	967	746	1390	12440	155	172	81	54
CAL YR 1977	TOTAL	11233.64	MEAN	30.8	MAX	2350	MIN	.24	CFSM	.39	IN	5.29
WTR YR 1978	TOTAL	9353.30	MEAN	25.6	MAX	3400	MIN	.22	CFSM	.32	IN	4.40
									AC-FT	22280	AC-FT	18550

RED RIVER BASIN

07351000 BOGGY BAYOU NEAR KEITHVILLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.52	11.02	11.41	11.76	11.08	11.27	11.08	11.11	10.74	10.50	10.31	10.34
2	10.51	11.06	11.43	11.79	11.25	11.32	11.15	11.11	10.79	10.48	10.28	10.36
3	10.49	11.04	11.43	11.81	10.98	11.31	11.22	11.42	10.80	10.44	10.25	10.64
4	10.47	11.03	11.43	11.86	10.76	11.25	11.29	11.36	10.81	10.57	10.23	10.65
5	10.48	11.05	11.46	11.80	10.82	11.19	11.31	11.29	10.80	10.88	10.20	10.50
6	10.50	11.07	11.48	11.77	10.90	11.19	11.27	11.22	10.80	10.78	10.21	10.43
7	10.52	11.08	11.52	11.81	11.01	11.39	11.31	17.32	10.92	10.88	10.23	10.49
8	10.55	11.16	11.56	11.79	11.10	11.46	11.33	16.64	10.98	10.79	10.21	10.75
9	10.59	11.15	11.58	11.71	11.11	11.43	11.32	14.96	10.99	10.73	10.20	10.74
10	10.63	11.07	11.58	11.79	11.14	11.30	11.77	12.30	10.92	10.68	10.19	10.59
11	10.66	11.13	11.60	11.80	11.11	11.23	15.13	11.41	10.80	10.65	10.17	10.53
12	10.70	11.15	11.61	11.88	11.30	11.20	14.47	14.20	10.80	10.62	10.15	10.58
13	10.72	11.16	11.55	11.87	11.83	11.20	11.95	15.48	10.80	10.60	10.18	10.65
14	10.71	11.15	11.12	11.84	11.85	11.29	11.28	14.11	10.78	10.57	10.42	11.14
15	10.75	11.16	10.96	11.84	11.34	11.43	11.11	11.76	10.77	10.62	10.38	11.25
16	10.77	11.17	10.62	12.03	11.13	11.35	11.07	11.15	10.76	10.67	10.38	10.78
17	10.80	11.21	10.65	12.03	11.15	11.24	11.04	10.96	10.77	10.59	10.40	10.55
18	10.82	11.23	11.10	11.86	11.62	11.18	11.34	10.86	10.80	10.56	10.40	10.49
19	10.84	11.25	11.29	11.59	11.63	11.16	11.37	10.82	10.73	10.52	10.40	10.47
20	10.84	11.28	11.35	11.47	11.32	11.15	11.13	10.74	10.69	10.49	10.40	10.55
21	10.82	11.32	11.39	11.43	11.15	11.20	10.99	10.67	10.65	10.47	10.40	10.55
22	10.82	11.35	11.44	11.31	11.15	11.23	10.96	10.72	10.62	10.46	10.41	10.52
23	10.84	11.34	11.49	11.25	11.17	11.28	11.02	10.76	10.60	10.49	10.43	10.48
24	10.86	11.36	11.50	12.03	11.16	12.56	11.07	10.78	10.60	10.49	10.43	10.51
25	10.87	11.39	11.50	12.34	11.21	13.32	11.08	10.80	10.58	10.48	10.44	10.54
26	10.86	11.36	11.53	11.61	11.23	11.70	11.08	10.78	10.55	10.48	10.44	10.53
27	10.85	11.34	11.55	11.06	11.23	11.28	11.10	10.74	10.53	11.08	10.43	10.53
28	10.88	11.32	11.61	10.67	11.25	11.11	11.09	10.72	10.52	11.26	10.44	10.52
29	10.92	11.36	11.70	10.49	---	11.02	11.12	10.72	10.52	10.65	11.35	10.52
30	10.95	11.46	11.73	10.66	---	10.97	11.12	10.70	10.51	10.49	11.16	10.53
31	10.98	---	11.74	10.75	---	10.98	---	10.70	---	10.35	10.43	---
MEAN	10.73	11.21	11.42	11.60	11.21	11.36	11.45	11.88	10.73	10.62	10.39	10.59
MAX	10.98	11.46	11.74	12.34	11.85	13.32	15.13	17.32	10.99	11.26	11.35	11.25
MIN	10.47	11.02	10.62	10.49	10.76	10.97	10.96	10.67	10.51	10.35	10.15	10.34

RED RIVER BASIN

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

REMARKS.--Records poor. Records of dissolved oxygen and water temperatures for the water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--38 years, 163 ft³/s (4.616 m³/s), 14.37 in/yr (365 mm/yr), 118,100 acre-ft/yr (146 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 discharge above base of 1,000 ft³/s (28 m³/s) and maximum: May 9 (1500) 4,450 ft³/s (126 m³/s), gage height, 9.29 ft (2.832 m); minimum, 4.0 ft³/s (0.11 m³/s) Aug. 28; minimum gage height, 2.35 ft (0.716 m) Aug. 19, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	16	114	34	139	66	35	8.0	28	8.8	6.8	29
2	11	21	78	30	160	64	32	6.4	104	9.4	8.2	20
3	13	23	57	27	162	67	29	14	86	10	8.6	19
4	12	23	44	25	146	64	27	20	52	17	7.2	31
5	11	23	34	24	122	59	26	18	46	20	6.6	21
6	10	23	28	25	105	55	25	13	34	14	6.8	13
7	10	23	24	24	94	76	23	1010	31	10	6.6	9.4
8	11	27	23	23	85	106	25	3410	29	9.0	6.0	8.6
9	13	42	28	20	80	94	21	4370	26	8.6	5.8	8.8
10	15	40	29	25	76	85	23	2450	21	7.8	5.6	9.8
11	15	30	27	36	74	74	46	1210	18	7.4	5.6	13
12	15	24	26	38	81	74	67	907	17	7.0	5.2	21
13	13	22	53	42	175	70	80	592	15	6.6	5.2	20
14	13	21	101	38	285	73	60	455	14	6.4	5.2	27
15	12	21	80	32	356	83	42	420	12	6.4	5.2	63
16	12	21	61	49	271	64	27	241	12	6.6	5.0	50
17	11	21	45	103	148	52	22	135	11	6.0	4.7	31
18	12	21	34	98	135	46	22	101	11	5.6	4.4	24
19	12	21	30	86	128	42	19	83	11	5.4	4.4	21
20	11	22	27	74	122	38	15	74	12	5.2	4.8	19
21	11	57	25	60	112	47	13	65	12	5.0	6.4	16
22	10	75	24	48	101	58	11	57	25	5.4	6.4	14
23	12	42	24	49	93	54	11	54	24	6.4	5.8	12
24	28	31	25	139	84	79	10	65	16	7.6	5.2	12
25	54	27	25	325	81	94	26	56	12	8.4	4.7	11
26	39	27	24	380	78	91	27	44	10	8.4	4.6	10
27	23	25	23	370	71	86	19	36	9.2	8.8	4.4	9.8
28	17	24	23	289	67	67	15	31	8.8	9.8	4.0	10
29	16	34	34	168	---	53	12	32	8.2	9.4	28	11
30	15	103	52	124	---	44	9.2	31	8.2	8.4	62	13
31	15	---	44	117	---	39	---	28	---	7.6	38	---
TOTAL	482	930	1266	2922	3631	2064	819.2	16036.4	723.4	262.4	287.4	577.4
MEAN	15.5	31.0	40.8	94.3	130	66.6	27.3	517	24.1	8.46	9.27	19.2
MAX	54	103	114	380	356	106	80	4370	104	20	62	63
MIN	10	16	23	20	67	38	9.2	6.4	8.2	5.0	4.0	8.6
CFSM	.10	.20	.26	.61	.84	.43	.18	3.36	.16	.05	.06	.12
IN.	.12	.22	.31	.71	.88	.50	.20	3.87	.17	.06	.07	.14
AC-FT	956	1840	2510	5800	7200	4090	1620	31810	1430	520	570	1150
(+)	1.44	4.51	2.65	5.47	1.84	1.92	.91	7.51	1.91	.96	3.72	1.98

CAL YR 1977 TOTAL 28445.3 MEAN 77.9 MAX 760 MIN 5.8 CFSM .51 IN 6.87 AC-FT 56420
WTR YR 1978 TOTAL 30001.2 MEAN 82.2 MAX 4370 MIN 4.0 CFSM .53 IN 7.25 AC-FT 59510

NOTE.--+ Precipitation, in inches, during month at rain gage at station. Total for calendar year 1977, 36.00 inches; total for water year 1978, 34.62 inches.

RED RIVER BASIN

07352000 SALINE BAYOU NEAR LUCKY, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.27	3.44	4.85	3.80	4.88	3.93	3.63	2.98	3.18	2.61	2.45	3.15
2	3.28	3.54	4.44	3.72	5.10	3.93	3.57	2.92	4.44	2.64	2.52	2.94
3	3.34	3.58	4.15	3.66	5.11	3.99	3.50	3.18	4.19	2.68	2.54	2.90
4	3.33	3.57	3.96	3.63	4.95	3.97	3.46	3.33	3.65	2.93	2.48	3.20
5	3.28	3.57	3.81	3.61	4.65	3.90	3.45	3.29	3.55	3.00	2.45	2.96
6	3.27	3.58	3.68	3.62	4.41	3.85	3.42	3.17	3.31	2.81	2.46	2.73
7	3.26	3.59	3.60	3.61	4.25	4.22	3.40	6.29	3.24	2.69	2.45	2.58
8	3.30	3.65	3.59	3.59	4.13	4.58	3.42	8.77	3.21	2.62	2.43	2.54
9	3.36	3.92	3.68	3.52	4.05	4.45	3.36	9.25	3.13	2.60	2.42	2.55
10	3.39	3.90	3.71	3.63	3.99	4.34	3.39	8.22	3.01	2.56	2.41	2.60
11	3.41	3.72	3.67	3.82	3.95	4.20	3.81	7.10	2.94	2.54	2.41	2.72
12	3.40	3.60	3.64	3.86	4.06	4.20	4.10	6.71	2.91	2.52	2.40	2.96
13	3.36	3.56	4.10	3.94	5.20	4.15	4.28	6.22	2.86	2.50	2.40	2.94
14	3.34	3.54	4.71	3.87	5.60	4.19	4.01	5.97	2.81	2.49	2.40	3.08
15	3.33	3.54	4.46	3.76	5.77	4.32	3.73	5.90	2.76	2.49	2.40	3.76
16	3.32	3.55	4.21	4.05	5.56	4.06	3.47	5.47	2.76	2.50	2.40	3.54
17	3.30	3.55	3.98	4.73	4.98	3.91	3.36	4.85	2.73	2.47	2.38	3.15
18	3.31	3.54	3.80	4.67	4.82	3.81	3.37	4.40	2.71	2.45	2.36	2.97
19	3.32	3.54	3.72	4.53	4.74	3.73	3.30	4.16	2.73	2.44	2.36	2.90
20	3.30	3.56	3.66	4.38	4.65	3.68	3.22	4.01	2.76	2.43	2.40	2.85
21	3.29	4.16	3.63	4.19	4.52	3.82	3.15	3.87	2.76	2.42	2.48	2.78
22	3.27	4.39	3.60	4.02	4.36	3.98	3.11	3.75	3.10	2.43	2.48	2.70
23	3.32	3.93	3.60	4.04	4.24	3.93	3.09	3.70	3.09	2.47	2.45	2.65
24	3.68	3.74	3.61	5.11	4.12	4.26	3.06	3.87	2.87	2.52	2.43	2.63
25	4.11	3.67	3.61	5.77	4.06	4.44	3.45	3.73	2.75	2.55	2.40	2.58
26	3.88	3.66	3.60	5.87	4.01	4.41	3.46	3.51	2.68	2.54	2.39	2.55
27	3.57	3.62	3.58	5.85	3.94	4.36	3.30	3.37	2.63	2.55	2.38	2.54
28	3.46	3.60	3.57	5.66	3.94	4.11	3.20	3.25	2.61	2.59	2.35	2.55
29	3.42	3.80	3.79	5.15	---	3.92	3.12	3.28	2.58	2.57	3.15	2.60
30	3.41	4.72	4.08	4.68	---	3.78	3.03	3.26	2.58	2.52	3.81	2.68
31	3.41	---	3.97	4.58	---	3.69	---	3.18	---	2.48	3.36	---
MEAN	3.40	3.71	3.87	4.29	4.57	4.07	3.44	4.68	3.02	2.57	2.52	2.84
MAX	4.11	4.72	4.85	5.87	5.77	4.58	4.28	9.25	4.44	3.00	3.81	3.76
MIN	3.26	3.44	3.57	3.52	3.94	3.68	3.03	2.92	2.58	2.42	2.35	2.54

RED RIVER BASIN

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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) National Geodetic Vertical Datum of 1929.

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, 5.90 ft (1.798 m) May 16; minimum, 2.98 ft (0.908 m) July 27.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.27	3.24	3.58	3.69	4.72	4.15	3.76	3.51	4.49	3.28	3.12	3.29
2	3.27	3.28	3.62	3.67	4.74	4.11	3.74	3.47	4.40	3.28	3.11	3.28
3	3.26	3.26	3.64	3.65	4.71	4.10	3.73	3.53	4.66	3.30	3.11	3.29
4	3.23	3.27	3.67	3.63	4.67	4.08	3.73	3.51	4.62	3.30	3.10	3.33
5	3.21	3.27	3.70	3.61	4.63	4.03	3.71	3.48	4.53	3.27	3.11	3.43
6	3.20	3.26	3.72	3.62	4.55	4.01	3.68	3.45	4.43	3.26	3.11	3.47
7	3.19	3.26	3.66	3.60	4.47	4.04	3.67	3.53	4.31	3.25	3.10	3.56
8	3.21	3.24	3.62	3.72	4.41	4.07	3.65	3.58	4.27	3.24	3.12	3.63
9	3.23	3.39	3.71	3.67	4.35	4.07	3.64	3.65	4.22	3.22	3.10	3.69
10	3.22	3.34	3.67	3.65	4.29	4.07	3.60	3.72	4.13	3.19	3.11	3.72
11	3.30	3.31	3.65	3.62	4.22	4.05	3.67	3.92	4.05	3.18	3.13	3.76
12	3.28	3.30	3.63	3.70	4.15	4.08	3.63	4.49	3.97	3.16	3.11	3.77
13	3.26	3.29	3.67	3.70	4.38	4.05	3.63	5.13	3.92	3.14	3.10	3.80
14	3.24	3.29	4.06	3.75	4.40	4.08	3.62	5.56	3.87	3.12	3.09	3.83
15	3.24	3.28	4.10	3.67	4.40	4.05	3.63	5.82	3.80	3.10	3.09	3.92
16	3.24	3.29	4.11	3.65	4.42	4.05	3.63	5.90	3.74	3.08	3.09	3.89
17	3.22	3.31	4.13	3.96	4.41	3.98	3.64	5.88	3.69	3.07	3.08	3.88
18	3.21	3.29	4.11	3.96	4.44	3.92	3.82	5.80	3.63	3.08	3.08	3.86
19	3.21	3.30	4.07	4.07	4.41	3.87	3.84	5.67	3.60	3.06	3.08	3.83
20	3.21	3.30	4.06	4.09	4.37	3.82	3.80	5.51	3.57	3.05	3.08	3.80
21	3.20	3.34	4.04	4.06	4.37	3.84	3.75	5.34	3.53	3.05	3.10	3.77
22	3.20	3.32	3.92	4.06	4.29	3.80	3.70	5.18	3.49	3.05	3.09	3.74
23	3.20	3.32	3.87	4.06	4.27	3.76	3.69	5.01	3.47	3.05	3.09	3.71
24	3.20	3.31	3.85	4.27	4.21	3.84	3.66	4.84	3.44	3.03	3.09	3.68
25	3.26	3.32	3.84	4.60	4.21	3.84	3.67	4.67	3.41	3.01	3.08	3.64
26	3.28	3.31	3.78	4.75	4.20	3.85	3.62	4.52	3.39	3.04	3.08	3.61
27	3.26	3.28	3.76	4.79	4.18	3.83	3.58	4.41	3.36	3.07	3.07	3.58
28	3.26	3.30	3.72	4.81	4.17	3.83	3.55	4.29	3.33	3.08	3.05	3.56
29	3.26	3.28	3.73	4.78	---	3.82	3.51	4.16	3.32	3.08	3.24	3.54
30	3.25	3.49	3.72	4.73	---	3.80	3.50	4.57	3.29	3.09	3.27	3.52
31	3.23	---	3.69	4.69	---	3.79	---	4.58	---	3.12	3.27	---
MEAN	3.24	3.30	3.81	4.01	4.39	3.96	3.67	4.54	3.86	3.14	3.11	3.65
MAX	3.30	3.49	4.13	4.81	4.74	4.15	3.84	5.90	4.66	3.30	3.27	3.92
MIN	3.19	3.24	3.58	3.60	4.15	3.76	3.50	3.45	3.29	3.01	3.05	3.28

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) National Geodetic Vertical Datum of 1929 (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) National Geodetic Vertical Datum of 1929. 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) National Geodetic Vertical Datum of 1929.

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.--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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1944 reached a stage of 43.6 ft (13.3 m), from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.81 ft (5.733 m) May 15; minimum observed, 1.15 ft (0.350 m) Aug. 17 but may have been less during period of missing record July 14 to Sept. 2.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.23	2.15	---	4.73	13.24	9.53	14.10	5.92	10.17	6.12	---	---
2	2.33	2.59	---	4.72	13.28	9.32	13.71	5.38	11.13	5.90	---	---
3	2.59	2.81	---	4.42	12.97	9.45	13.47	5.41	11.31	5.79	---	2.48
4	2.85	2.96	---	4.29	12.60	9.33	12.76	5.50	10.85	5.69	---	2.93
5	3.07	3.18	---	4.14	12.15	9.07	11.81	5.52	10.15	5.41	---	3.34
6	2.87	3.76	---	4.17	11.67	8.83	10.93	5.52	9.40	4.70	---	3.72
7	2.53	4.54	---	4.08	11.06	8.77	10.15	6.05	9.07	3.87	---	3.86
8	2.47	4.92	---	5.13	10.61	9.04	9.44	9.75	8.90	3.26	---	4.25
9	2.54	4.99	---	5.11	10.14	8.91	8.70	12.41	8.56	2.92	---	4.56
10	2.43	4.62	---	4.49	9.68	8.96	7.98	13.50	7.97	2.70	---	4.84
11	2.71	4.39	---	4.45	9.15	8.90	7.64	13.99	7.38	2.51	---	5.13
12	2.62	4.49	---	4.98	8.62	9.32	7.27	14.73	7.04	2.43	---	5.18
13	2.37	4.61	---	5.21	10.18	10.24	7.23	16.40	7.29	2.35	---	5.27
14	2.21	4.51	---	5.36	10.44	11.43	7.04	17.87	9.76	---	---	5.62
15	2.16	4.14	---	4.88	10.45	11.70	6.63	18.59	11.04	---	---	6.17
16	2.15	3.72	---	4.49	10.52	11.90	6.58	18.78	11.18	---	---	6.02
17	2.15	3.43	---	7.74	10.42	11.56	7.23	18.45	11.04	---	---	5.90
18	2.16	3.29	---	7.46	10.73	11.21	8.30	17.83	10.98	---	---	5.75
19	2.15	3.26	---	8.29	10.52	10.78	8.61	17.09	10.83	---	---	5.65
20	2.14	---	7.99	8.59	10.40	10.19	8.85	16.15	10.17	---	---	5.59
21	2.15	---	7.69	8.73	11.00	9.67	8.51	15.16	9.42	---	---	5.36
22	2.17	---	6.88	9.08	10.85	9.37	7.86	14.22	8.80	---	---	5.16
23	2.17	---	6.41	9.09	10.75	9.05	7.38	13.20	8.12	---	---	4.92
24	2.14	---	6.10	10.73	10.37	9.11	6.83	12.19	7.61	---	---	4.68
25	2.63	---	5.94	12.47	10.20	9.17	6.45	11.28	7.39	---	---	4.45
26	2.40	---	5.57	13.34	10.08	9.21	6.00	10.47	7.27	---	---	4.22
27	2.25	---	5.29	13.57	9.88	9.10	5.67	9.74	7.14	---	---	4.03
28	2.17	---	4.93	13.75	9.71	9.37	5.44	9.03	7.08	---	---	3.82
29	2.15	---	4.84	13.64	---	13.01	5.42	10.65	6.85	---	---	3.66
30	2.17	---	5.04	13.41	---	14.55	5.89	11.11	6.41	---	---	3.48
31	2.13	---	4.76	13.14	---	14.69	---	10.71	---	---	---	---
MEAN	2.36	---	---	7.67	10.77	10.15	8.46	12.02	9.01	---	---	---
MAX	3.07	---	---	13.75	13.28	14.69	14.10	18.78	11.31	6.12	---	6.17
MIN	2.13	2.15	---	4.08	8.62	8.77	5.42	5.38	6.41	---	---	---

07353000 SALINE BAYOU NEAR CLARENCE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-54, 1965, 1968-70, 1978 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECA, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECA, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED AS (MG/L CAC03)	HARDNESS, NONCARBONATE DIS. (MG/L CAC03)
NOV 17...	1400	450	6.8	17.0	90	60	8.2	2.6	<5	K120	44	8
FEB 16...	1030	112	6.3	5.5	60	15	12.6	4.3	K30	K170	22	10
APR 20...	1000	163	6.6	19.0	30	10	8.6	2.3	K20	K60	23	8
JUL 13...	1800	289	6.9	30.0	40	10	3.6	--	520	1720	110	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 17...	10	4.7	80	79	5.2	1.9	44	0	36	5.9	120
FEB 16...	5.2	2.1	19	64	1.8	1.5	14	0	11	7.9	31
APR 20...	5.5	2.2	18	61	1.6	1.9	18	0	15	14	26
JUL 13...	26	10	12	19	.5	6.9	130	0	110	7.4	14

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N03)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 17...	.1	7.1	277	251	.38	.11	.81	.92	4.1	.12	--
FEB 16...	.0	5.2	93	79	.13	.06	.47	.53	2.3	.13	7.4
APR 20...	.0	5.1	94	82	.13	.05	.52	.57	2.5	.03	--
JUL 13...	.1	9.0	168	149	.23	.40	3.0	3.4	15	.90	--

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
FEB 16...	1	11	0	0	30	0	2	2	50	600	0	300

DATE	MANGANESE, DIS-SOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/L AS HG)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)
FEB 16...	0	2800	.6	.0	0	150	.00	1	.0	0	.00

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

RED RIVER BASIN

07353000 SALINE BAYOU NEAR CLARENCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
FEB 16...	.00	.0	.0	0	.00	.3	.00	.2	.00	.0	.00
DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	
FEB 16...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 16...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0
DATE	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)		
FEB 16...			0	0	.00	.0	.04	.00	.00		

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.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 92.28 ft (28.127 m) National Geodetic Vertical Datum of 1929 (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. The crest of the spillway is 3.05 ft (0.930 m) gage height. Drawdown structure consist of one 5-by 5-ft (1.5-by 1.5-m) metal sluice gate that can be varied from -16.78 to -11.78 ft (-5.115 to -3.591 m) gage height. Area of lake is 1,580 acres (640 hm^2), usable capacity 11,200 acre-ft (13.8 hm^3) at 3.05 ft (0.930 m) gage height. Reservoir is used for recreation. 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--8 years (1969-72, 1973-78), 67.9 ft³/s (1.923 m³/s), 49,190 acre-ft/yr (60.7 hm³/yr).

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 494 ft³/s (13.99 m³/s) Jan. 26, gage height, 4.03 ft (1.228 m); no flow many days.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	7.0	230	40	314	31	28	0	34			
2	0	14	200	34	342	28	37	0	50			
3	0	16	156	24	335	31	43	1.0	43			
4	0	14	105	20	300	28	46	2.0	31			
5	0	12	80	18	230	22	46	1.0	24			
6	0	10	52	18	178	20	43	0	16			
7	0	8.5	31	14	140	37	43	12	28			
8	0	10	22	34	125	49	40	43	34			
9	0	22	28	26	110	43	34	52	28			
10	0	18	22	22	96	40	26	46	20			
11	7.0	10	18	20	88	34	34	31	14			
12	5.5	8.5	14	31	110	34	34	28	12			
13	4.0	7.0	43	37	314	28	37	40	10			
14	3.0	5.5	178	37	371	31	31	37	5.5			
15	3.0	4.0	224	31	356	31	31	34	3.0			
16	2.0	4.0	206	46	287	28	28	24	1.0			
17	1.0	5.5	167	162	194	22	24	20	0			
18	0	4.0	100	212	162	20	24	20	0			
19	0	3.0	76	212	120	18	18	16	0			
20	0	3.0	56	183	100	16	14	12	0			
21	0	8.5	40	140	84	20	10	8.5	0			
22	0	10	26	110	64	20	5.5	5.5	0			
23	0	10	22	100	60	20	5.5	4.0	0			
24	1.0	10	20	242	46	28	5.5	2.0	0			
25	5.5	10	22	454	43	37	5.5	1.0	0			
26	12	8.5	16	494	37	43	2.0	0	0			
27	10	4.0	14	469	31	37	0	0	0			
28	8.5	8.5	12	408	34	34	0	0	0			
29	7.0	34	24	300	---	28	0	18	0			
30	5.5	178	43	236	---	24	0	31	0			
31	4.0	---	43	206	---	24	---	34	---			---
TOTAL	79.0	467.5	2290	4380	4671	906	695.0	523.0	359.5	0	0	0
MEAN	2.55	15.6	73.9	141	167	29.2	23.2	16.9	12.0	0	0	0
MAX	12	178	230	494	371	49	46	52	56	0	0	0
MIN	0	3.0	12	14	31	16	0	0	0	0	0	0
AC-FT	157	927	4540	8690	9260	1800	1380	1040	713	0	0	0
CAL YR 1977	TOTAL	22309.20	MEAN	61.1	MAX	931	MIN	0	AC-FT	44250		
WTR YR 1978	TOTAL	14371.00	MEAN	39.4	MAX	494	MIN	0	AC-FT	28500		

RED RIVER BASIN

07353520 NANTACHIE LAKE NEAR ALOHA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.01	3.11	3.66	3.26	3.79	3.23	3.22	3.01	3.24	2.83	2.55	2.67
2	3.03	3.15	3.61	3.24	3.83	3.22	3.25	3.00	3.31	2.82	2.55	2.67
3	3.04	3.16	3.53	3.20	3.82	3.23	3.27	3.06	3.27	2.79	2.54	2.66
4	3.01	3.15	3.43	3.18	3.77	3.22	3.28	3.07	3.23	2.78	2.52	2.66
5	2.99	3.14	3.37	3.17	3.66	3.19	3.28	3.06	3.20	2.80	2.52	2.65
6	2.98	3.13	3.30	3.17	3.57	3.18	3.27	3.05	3.16	2.80	2.50	2.63
7	2.97	3.12	3.23	3.15	3.50	3.25	3.27	3.14	3.22	2.78	2.48	2.62
8	2.96	3.13	3.19	3.24	3.47	3.29	3.26	3.27	3.24	2.77	2.46	2.61
9	3.01	3.19	3.22	3.21	3.44	3.27	3.24	3.30	3.22	2.76	2.46	2.60
10	3.04	3.17	3.19	3.19	3.41	3.26	3.21	3.28	3.18	2.75	2.45	2.67
11	3.11	3.13	3.17	3.18	3.39	3.24	3.24	3.23	3.15	2.73	2.42	2.69
12	3.10	3.12	3.15	3.23	3.44	3.24	3.24	3.22	3.14	2.70	2.43	2.68
13	3.09	3.11	3.27	3.25	3.79	3.22	3.25	3.26	3.13	2.68	2.42	2.68
14	3.08	3.10	3.57	3.25	3.87	3.23	3.23	3.25	3.10	2.67	2.57	2.73
15	3.08	3.09	3.65	3.23	3.85	3.23	3.23	3.24	3.08	2.65	2.60	2.75
16	3.07	3.09	3.62	3.28	3.75	3.22	3.22	3.20	3.06	2.68	2.59	2.75
17	3.06	3.10	3.55	3.54	3.60	3.19	3.20	3.18	3.03	2.67	2.58	2.74
18	3.05	3.09	3.42	3.63	3.54	3.18	3.20	3.18	3.02	2.65	2.56	2.74
19	3.05	3.08	3.36	3.63	3.46	3.17	3.17	3.16	3.01	2.63	2.54	2.73
20	3.05	3.08	3.31	3.58	3.42	3.16	3.15	3.14	2.99	2.62	2.53	2.72
21	3.04	3.12	3.26	3.50	3.38	3.18	3.13	3.12	2.98	2.60	2.57	2.72
22	3.03	3.13	3.21	3.44	3.33	3.18	3.10	3.10	2.97	2.58	2.56	2.71
23	3.03	3.13	3.19	3.42	3.32	3.18	3.10	3.09	2.95	2.57	2.54	2.69
24	3.06	3.13	3.18	3.68	3.28	3.22	3.10	3.07	2.93	2.57	2.53	2.68
25	3.10	3.13	3.19	3.98	3.27	3.25	3.10	3.06	2.91	2.57	2.51	2.66
26	3.14	3.12	3.16	4.03	3.25	3.27	3.07	3.05	2.89	2.55	2.50	2.64
27	3.13	3.09	3.15	4.00	3.23	3.25	3.05	3.04	2.87	2.58	2.48	2.63
28	3.12	3.12	3.14	3.92	3.24	3.24	3.04	3.03	2.85	2.60	2.46	2.62
29	3.11	3.24	3.20	3.77	---	3.22	3.02	3.17	2.84	2.60	2.66	2.62
30	3.10	3.57	3.27	3.67	---	3.20	3.01	3.23	2.84	2.57	2.68	2.61
31	3.09	---	3.27	3.62	---	3.20	---	3.24	---	2.56	2.68	---
MEAN	3.06	3.14	3.32	3.45	3.52	3.22	3.18	3.15	3.07	2.67	2.53	2.67
MAX	3.14	3.57	3.66	4.03	3.87	3.29	3.28	3.30	3.31	2.83	2.68	2.75
MIN	2.96	3.08	3.14	3.15	3.23	3.16	3.01	3.00	2.84	2.55	2.42	2.60

07354000 LITTLE SANDY CREEK AT KISATCHIE, LA

LOCATION.--Lat 31°24'30", long 93°10'15", in SE¼ sec.15, T.5 N., R.8 W., Natchitoches Parish, 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.

DRAINAGE AREA.--21.4 mi² (55.4 km²).

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

REVISED RECORDS.--WDR LA-75: 1961(M).

GAGE.--Water-stage recorder. Datum of gage is 204.44 ft (62.313 m) National Geodetic Vertical Datum of 1929. May 20, 1954, to Aug.

31, 1965, nonrecording gage at same site and datum.

REMARKS.--Records fair. Records of dissolved oxygen and water temperatures for water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--29 years, 29.2 ft³/s (0.827 m³/s), 18.53 in/yr (471 mm/yr), 21,160 acre-ft/yr (26.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,880 ft³/s (166 m³/s) Apr. 29, 1953, gage height, 15.36 ft (4.682 m); minimum, 0.2 ft³/s (0.006 m³/s) Sept. 19, 21, 22, 27, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 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)
Nov. 29	2030	1220 34.6	6.07 1.850	Feb. 12	2230	*1370 38.8	*6.55 1.996
Jan. 16	2000	1150 32.6	5.84 1.780	Sept. 3	2200	1080 30.6	5.60 1.707
Jan. 24	1000	1280 36.2	6.28 1.914	Sept. 14	1330	1350 38.2	6.48 1.975

Minimum daily discharge, 0.80 ft³/s (0.023 m³/s) July 12-22, Aug. 25, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.5	55	17	407	16	11	3.0	2.2	.85	1.6	3.8
2	1.8	22	37	14	67	15	10	3.2	2.2	.85	1.5	25
3	3.6	6.2	28	12	48	19	9.9	4.4	2.4	1.0	1.4	158
4	2.6	4.2	23	11	38	18	9.5	4.2	2.3	.85	1.4	62
5	2.3	4.0	18	11	33	16	9.2	3.6	2.0	.85	1.6	11
6	2.3	3.6	12	11	29	15	9.2	3.4	1.9	.85	1.7	6.0
7	2.2	3.4	12	10	27	39	8.9	3.6	1.46	.85	1.7	4.0
8	2.4	12	12	48	24	23	8.9	4.4	42	.85	1.2	3.2
9	15	12	15	20	22	17	8.6	3.2	3.4	.85	1.2	3.0
10	5.0	5.2	13	15	21	15	8.6	2.9	2.2	.85	1.2	2.8
11	35	4.0	12	15	19	14	10	2.8	1.7	.85	1.1	3.0
12	7.0	3.6	11	110	242	14	9.2	2.6	1.3	.80	1.0	3.0
13	5.2	3.2	250	31	144	13	8.3	2.3	1.2	.80	3.2	3.0
14	4.2	3.0	62	20	44	15	7.5	2.2	1.1	.80	19	378
15	3.8	2.9	33	15	36	14	7.2	2.1	1.0	.80	3.2	48
16	3.4	2.9	24	251	32	12	6.8	2.1	1.0	.80	1.7	17
17	3.2	3.0	19	86	27	11	6.5	2.2	1.0	.80	1.2	14
18	3.0	2.8	16	40	32	11	5.8	2.3	1.0	.80	1.0	21
19	3.0	2.6	14	60	27	11	5.5	2.4	1.0	.80	1.0	8.3
20	3.0	2.8	11	40	24	10	5.0	2.6	.95	.80	.95	6.2
21	2.9	105	10	32	22	176	5.0	2.6	.95	.80	1.0	4.4
22	2.9	20	9.5	42	21	40	4.6	2.4	.95	.80	.95	3.4
23	2.8	10	9.5	80	19	26	4.6	2.4	.95	19	.90	3.4
24	4.2	8.0	9.9	585	19	28	4.2	2.3	.95	47	.85	3.4
25	20	7.0	9.5	144	18	23	4.0	2.2	.90	14	.80	3.2
26	6.0	6.0	8.9	58	16	19	3.6	2.2	.90	4.0	.85	3.2
27	4.0	5.5	8.6	44	16	14	3.4	2.1	.90	3.8	.80	3.0
28	3.6	8.0	8.6	44	16	13	3.4	2.1	.90	3.4	1.3	3.2
29	3.4	467	64	37	---	12	3.4	2.2	.90	2.4	162	3.0
30	3.2	280	31	88	---	12	3.4	3.6	.85	2.0	8.6	3.0
31	3.0	---	20	69	---	11	---	2.6	---	1.7	4.8	---
TOTAL	165.9	1023.4	866.5	2060	1490	692	205.2	86.2	227.00	115.60	230.70	813.5
MEAN	5.35	34.1	28.0	66.5	53.2	22.3	6.84	2.78	7.57	3.73	7.44	27.1
MAX	35	467	250	585	407	176	11	4.4	146	47	162	378
MIN	1.8	2.6	8.6	10	16	10	3.4	2.1	.85	.80	.80	2.8
CFSM	.25	1.59	1.31	3.11	2.49	1.04	.32	.13	.35	.17	.35	1.27
IN.	.29	1.78	1.51	3.58	2.59	1.20	.36	.15	.39	.20	.40	1.41
AC-FT	329	2030	1720	4090	2960	1370	407	171	450	229	458	1610
CAL YR 1977 TOTAL	8925.70											
WTR YR 1978 TOTAL	7976.00											
MEAN 24.5												
MAX 688												
MIN 1.1												
CFSM 1.14												
IN 15.52												
AC-FT 17700												
WTR YR 1978 TOTAL	7976.00											
MEAN 21.9												
MAX 585												
MIN .80												
CFSM 1.02												
IN 13.86												
AC-FT 15820												

NOTE.--Discharges below about 50 ft³/s computed from once-daily wire-weight-gage readings.

RED RIVER BASIN

07354000 LITTLE SANDY CREEK AT KISATCHIE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	---	1.02	.50	2.96	.33	.24	.05	.02	-.01	.03	.17
2	.15	.67	.80	.45	1.08	.32	.22	.06	.02	-.01	.02	.50
3	.28	.37	.68	.42	.85	.38	.21	.15	.04	.02	.01	1.23
4	.22	.29	.60	.40	.72	.37	.20	.14	.03	-.01	.01	1.00
5	.20	.28	.52	.40	.65	.34	.19	.12	.00	-.01	.03	.43
6	.20	.26	.43	.39	.60	.32	.19	.11	-.01	-.01	.04	.27
7	.19	.25	.42	.38	.56	.70	.18	.12	1.48	-.01	.04	.18
8	.21	.39	.42	.91	.52	.46	.18	.16	.92	-.01	-.02	.13
9	.57	.53	.48	.56	.49	.36	.17	.09	.24	-.01	-.02	.12
10	.34	.33	.44	.48	.47	.32	.17	.07	.16	-.01	-.03	.10
11	.78	.28	.41	.47	.45	.30	.24	.06	.12	-.01	-.04	.12
12	.40	.26	.39	1.40	1.57	.29	.22	.05	.08	-.02	-.05	.12
13	.33	.23	1.92	.72	1.58	.28	.20	.03	.06	-.02	.16	.12
14	.29	.22	1.10	.56	.78	.31	.18	.02	.04	-.02	.60	2.64
15	.27	.21	.75	.49	.66	.30	.17	.01	.03	-.02	.16	.95
16	.24	.21	.62	1.76	.60	.25	.16	.01	.02	-.02	.04	.54
17	.23	.22	.54	1.27	.53	.24	.15	.02	.03	-.02	-.01	.50
18	.22	.20	.49	.74	.62	.23	.13	.03	.02	-.02	-.04	.60
19	.22	.19	.45	1.01	.53	.23	.12	.04	.02	-.02	-.06	.36
20	.22	.20	.40	.75	.48	.22	.11	.05	.01	-.02	-.07	.28
21	.21	1.20	.38	.63	.44	1.56	.11	.05	.01	-.02	-.06	.20
22	.21	.66	.36	.77	.42	.74	.10	.04	.01	-.02	-.07	.15
23	.20	.50	.36	1.21	.39	.52	.10	.04	.01	.31	-.08	.15
24	.29	.44	.37	3.67	.38	.56	.09	.03	.01	.72	-.09	.14
25	.63	.40	.36	1.71	.37	.46	.08	.02	.00	.52	-.10	.13
26	.36	.36	.34	.98	.34	.38	.07	.02	.00	.21	-.09	.13
27	.28	.34	.33	.81	.33	.29	.06	.01	.00	.20	-.10	.12
28	.26	.44	.33	.81	.34	.28	.06	.01	.00	.17	.00	.13
29	---	3.01	.97	.72	---	.27	.07	.02	.00	.11	1.57	.12
30	---	2.43	.72	1.18	---	.25	.06	.12	-.01	.07	.37	.12
31	---	---	.56	1.08	---	.24	---	.05	---	.04	.22	---
MEAN	---	---	.58	.89	.70	.39	.15	.06	.11	.07	.08	.39
MAX	.78	3.01	1.92	3.67	2.96	1.56	.24	.16	1.48	.72	1.57	2.64
MIN	.15	.19	.33	.38	.33	.22	.06	.01	-.01	-.02	-.10	.10

RED RIVER BASIN

83

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, 32°C July 11, 1978; minimum daily, 2.0°C Jan. 21, 1977.

CHLORIDE: Maximum daily, 400 mg/L June 29, 1978; minimum daily, 14 mg/L May 13, 1975, Apr. 6, 1977.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily, 4,940 mg/L Mar. 25, 1977; minimum daily, 31 mg/L July 14, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 32°C July 11; minimum daily, 4.0°C for several days during January and February.

CHLORIDE: Maximum daily, 400 mg/L June 29; minimum daily, 21 mg/L Apr. 4.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily, 2,240 mg/L Mar. 20; minimum daily, 66 mg/L Aug. 19.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.5	20.0		4.5	4.5	9.5	13.5	21.0	28.5	30.5	31.0	27.0
2	25.5	20.0		4.5	5.0	8.5	16.0	19.5	29.0	31.0	31.0	29.0
3	25.0	19.5		4.0	4.0	8.0	17.0	19.5	28.0	31.0	28.0	29.0
4	23.5	19.5		4.0	5.5	7.0	17.0	18.0	28.0	31.0	31.0	28.0
5	24.0	19.0		4.0	5.0	8.0	18.5	17.0	26.5	31.0	31.0	27.0
6	24.5	19.0		4.5	4.0	8.0	19.5	19.0	28.0	31.0	31.0	30.0
7	23.5	19.0		4.5	5.0	10.0	20.0	20.5	26.5	31.0	30.0	27.0
8	22.0	18.5		4.0	4.0	9.5	20.0	21.0	28.0	31.5	30.0	28.0
9	21.0	---		4.0	4.5	6.0	21.0	20.5	27.0	31.5	30.0	28.0
10	20.0	18.5		4.0	4.5	8.0	21.5	20.0	27.0	31.5	31.0	28.0
11	19.0	19.0		4.0	6.5	8.5	17.0	21.5	27.0	32.0	31.0	27.0
12	18.0	19.0		4.5	7.0	7.0	19.0	21.5	27.0	30.5	31.0	27.0
13	18.0	19.0		4.0	8.0	11.0	18.5	21.5	28.5	31.5	31.0	26.0
14	18.0	19.0		4.0	6.5	10.5	19.0	23.5	29.0	31.5	30.0	26.0
15	18.0	18.5		4.0	6.5	11.0	20.5	23.5	27.0	31.5	31.0	26.0
16	18.0	18.5		4.0	6.5	10.5	20.5	23.0	27.0	31.5	31.0	27.0
17	18.0	19.0		6.5	6.5	10.5	20.5	23.5	27.0	31.5	31.0	27.0
18	18.0	18.5		5.5	6.5	11.5	21.0	22.0	27.0	31.5	31.0	27.0
19	18.0	18.5		5.5	6.5	13.5	20.5	24.0	28.0	31.5	31.0	27.0
20	19.0	18.0		5.5	5.5	12.0	19.5	25.0	28.0	31.5	31.0	27.0
21	19.0	---		5.5	5.0	11.5	19.0	26.5	28.0	31.0	31.0	28.0
22	19.5	---		4.0	4.5	14.5	19.5	26.0	29.5	30.5	31.0	27.0
23	19.5	15.0		4.0	5.5	16.0	20.5	26.0	29.5	30.5	31.0	26.0
24	20.0	13.5		5.5	5.0	15.5	20.5	26.0	30.0	31.5	31.0	26.0
25	20.5	13.5		6.5	5.5	15.5	21.0	26.0	31.0	31.0	31.0	25.0
26	20.5	---		4.0	5.5	14.0	19.5	26.0	31.0	31.0	31.0	25.0
27	20.5	13.5		5.0	5.5	14.0	19.5	28.0	31.0	27.0	31.0	25.0
28	20.5	---		4.5	6.0	14.5	20.5	28.0	31.0	31.0	26.0	24.0
29	20.5	13.0		4.5	---	11.0	21.0	28.0	31.0	31.0	29.0	24.0
30	20.5	12.0		4.5	---	11.0	21.5	28.0	31.0	31.0	28.0	24.0
31	20.5	---		4.5	---	11.0	---	28.0	---	31.0	28.0	---
MONTH	20.5	17.5		4.5	5.5	11.0	19.5	23.5	28.5	31.0	30.5	26.5
YEAR	MAX	32.0	MIN	4.0	MEAN	20.0						

RED RIVER BASIN

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

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	160		180	95	66	43	48	120	380	220	300
2	150	140		150	92	54	30	40	100	360	220	320
3	200	150		140	88	74	26	29	90	360	230	310
4	190	140		63	88	68	21	29	84	370	260	310
5	220	150		68	90	67	22	54	120	370	250	290
6	220	160		66	80	100	22	66	140	380	240	270
7	220	220		70	82	66	30	38	120	390	260	250
8	260	200		66	71	110	30	55	84	360	240	200
9	220	170		66	80	83	35	31	54	360	260	190
10	240	230		74	80	110	29	62	51	340	250	230
11	250	240		78	80	98	30	45	61	320	250	250
12	240	200		76	79	110	42	36	39	320	260	300
13	240	200		80	30	81	53	29	34	300	260	280
14	250	230		76	27	95	110	22	31	310	270	280
15	260	220		89	35	54	68	22	260	290	250	270
16	260	220		89	36	78	71	33	300	280	260	260
17	310	190		200	80	88	84	48	320	260	240	260
18	320	170		210	110	55	73	43	300	280	260	240
19	280	150		190	92	54	58	31	320	260	260	230
20	270	140		200	110	39	42	34	330	270	240	220
21	260	150		190	140	42	56	44	340	270	240	220
22	250	130		190	110	40	60	38	310	280	220	220
23	230	130		170	98	54	54	40	300	210	220	230
24	220	150		130	140	40	41	42	320	220	250	220
25	180	140		92	56	45	35	41	320	220	260	250
26	190	150		81	62	45	34	41	330	230	250	280
27	160	170		77	70	48	42	44	370	230	300	260
28	170	180		78	66	44	58	65	380	300	240	280
29	160	190		73	---	48	65	66	400	300	290	320
30	150	150		90	---	80	55	60	380	300	270	300
31	140	---		110	---	42	---	90	---	260	310	---
MONTH	220	170		110	81	67	47	44	210	300	250	260
YEAR	MAX	400	MIN	21	MEAN	160						

SUSPENDED-SEDIMENT CONCENTRATION (MG/L), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	206		150	342	218	379	659	151	816	85	153
2	130	163		76	300	309	1060	181	285	731	148	238
3	175	210		84	276	259	1220	281	346	195	144	255
4	132	166		107	228	258	787	178	209	189	158	278
5	213	161		---	223	280	672	228	202	184	223	173
6	159	175		144	230	240	980	259	349	204	231	259
7	210	297		212	216	232	611	180	174	191	176	127
8	198	234		184	201	323	661	423	159	216	164	181
9	140	246		113	155	209	321	1080	232	161	205	90
10	150	284		571	195	211	349	660	277	---	197	114
11	218	260		126	163	198	383	782	231	161	214	158
12	190	196		124	241	466	326	983	260	184	129	156
13	141	224		121	291	284	271	610	274	124	88	168
14	260	270		95	428	699	288	601	602	147	120	188
15	164	225		116	266	592	246	667	771	382	122	148
16	142	284		70	184	531	229	527	852	143	178	105
17	187	242		---	159	891	225	612	733	158	202	131
18	157	231		---	187	762	257	599	736	143	97	109
19	167	238		---	162	362	307	415	709	89	66	98
20	162	233		---	302	2240	281	294	678	92	192	112
21	178	275		---	221	349	268	286	597	103	120	77
22	219	172		---	318	398	254	203	546	165	134	118
23	254	185		---	443	349	268	169	421	141	95	115
24	185	187		---	546	398	245	156	333	85	172	145
25	181	193		---	485	300	345	204	308	186	147	276
26	192	158		---	330	263	308	163	365	167	168	141
27	234	106		---	342	292	260	243	291	207	157	113
28	162	125		---	255	229	206	211	274	209	92	118
29	148	123		---	---	1020	245	257	210	141	122	204
30	174	226		---	---	1400	404	386	334	730	316	214
31	106	---		---	---	1650	---	156	---	---	174	---
MONTH	179	210		---	275	523	422	408	397	229	156	159
YEAR	MAX	2240	MIN	66	MEAN	290						

RED RIVER BASIN

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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.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)
OCT 11...	1730	1400	7.9	20.5	20	30	--	28	--	520	K110	310
NOV 17...	1600	979	7.7	17.5	100	45	10.0	56	2.8	--	480	210
DEC 15...	0750	319	7.0	11.5	110	250	9.9	44	6.7	14000	K3000	91
JAN 25...	0830	455	7.0	6.0	80	130	12.0	42	4.4	20000	8000	91
FEB 16...	1100	447	7.2	7.5	70	65	12.0	37	3.6	8600	1100	100
MAR 14...	1700	412	7.3	--	50	200	9.6	50	--	K3400	2000	110
APR 20...	1200	288	7.5	19.0	50	110	8.2	25	2.0	1600	--	76
MAY 11...	0900	306	7.5	22.5	80	220	7.7	66	5.1	62000	1200	81
JUN 15...	1130	1420	7.9	29.0	20	190	6.6	27	1.1	K150000	1200	340
JUL 13...	1915	1630	7.9	33.5	5	15	12.0	34	--	16000	--	340
AUG 07...	1530	1370	7.9	31.0	15	20	9.6	44	8.7	54000	--	300
SEP 07...	1500	1250	7.6	29.5	10	15	9.6	18	4.5	250	K20	260

DATE	HARD- NESS, NONCAR- BONATE, UIS. (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS C03)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SETTLE- ABLE MATTER (ML/L/ HR)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT 11...	160	80	27	182	0	149	170	250	57	<1.0	.00	.01
NOV 17...	91	56	16	140	0	110	100	170	225	<1.0	.19	.01
DEC 15...	14	24	7.6	94	0	77	23	37	512	<1.1	.55	.05
JAN 25...	75	24	7.6	20	0	16	50	73	286	<1.0	.24	.02
FEB 16...	43	27	8.1	71	0	58	48	73	181	<1.0	.18	.03
MAR 14...	44	30	7.5	75	0	62	45	49	510	<1.0	.00	.00
APR 20...	19	23	4.6	70	0	57	38	110	195	<1.0	.17	.03
MAY 11...	22	24	5.2	72	0	59	25	33	416	<1.0	.29	.05
JUN 15...	240	97	23	126	0	103	170	270	614	<1.0	.32	.01
JUL 13...	210	87	30	160	0	131	240	310	13	<1.0	.00	.00
AUG 07...	130	73	28	205	0	170	150	240	23	<1.0	.02	.01
SEP 07...	130	69	21	152	0	120	160	230	42	<1.0	.00	.00

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

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

RED RIVER BASIN

07355130 RED RIVER AT BOYCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 11...	.01	--	.14	2	0	2	0	0	0	10	9	1
NOV 17...	.20	.41	.12	2	1	1	0	0	0	0	0	0
DEC 15...	.60	1.7	.42	3	2	1	0	0	0	0	0	0
JAN 25...	.26	.74	.25	2	1	1	0	0	0	1	0	1
FEB 16...	.21	.72	.21	2	1	1	0	0	0	0	0	0
MAR 14...	.00	.53	.40	3	2	1	0	0	0	1	0	1
APR 20...	.20	.56	.20	3	2	1	0	0	0	1	0	1
MAY 11...	.34	.68	.34	5	5	0	10	10	0	1	0	1
JUN 15...	.33	.96	.28	4	3	1	0	0	0	12	11	1
JUL 13...	.00	.52	.09	3	1	2	10	0	10	1	0	1
AUG 07...	.03	1.2	.15	3	1	2	10	9	1	3	2	1
SEP 07...	.00	.97	.07	2	0	2	0	0	0	0	0	0

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 11...	15	0	10	7	3	10	<100	<99	1	.0	.0	.0
NOV 17...	0	0	6	4	2	100	23	22	1	.0	.0	.0
DEC 15...	0	0	15	11	4	80	23	21	2	.0	.0	.0
JAN 25...	0	0	10	5	5	80	7	7	0	.0	.0	.0
FEB 16...	0	0	9	4	5	100	11	11	0	.0	.0	.0
MAR 14...	10	0	16	12	4	50	7	4	3	.0	.0	.0
APR 20...	0	0	6	1	5	40	14	12	2	.1	.0	.1
MAY 11...	20	0	19	9	10	20	42	36	6	.0	.0	.0
JUN 15...	20	0	42	30	12	0	54	38	16	.1	.1	.0
JUL 13...	0	0	17	13	4	50	26	22	4	.1	.1	.0
AUG 07...	10	0	11	1	10	10	33	29	4	.0	.0	.0
SEP 07...	0	0	9	6	3	20	41	41	0	.0	.0	.0

RED RIVER BASIN

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07355130 RED RIVER AT BOYCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOVERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOVERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT 11...	<50	<48	2	0	0	0	--	20	0	20	5.2	.00
NOV 17...	6	6	0	0	0	0	1.0	10	10	0	7.6	--
DEC 15...	29	28	1	1	1	0	.5	50	40	10	14	.00
JAN 25...	13	11	2	0	0	0	1.0	30	10	20	12	.00
FEB 16...	10	10	0	0	0	0	1.0	20	10	10	12	.00
MAR 14...	17	14	3	0	0	0	1.0	60	50	10	12	.00
APR 20...	10	9	1	0	0	0	2.0	20	10	10	6.2	.00
MAY 11...	13	11	2	0	0	0	1.0	40	30	10	14	.00
JUN 15...	19	15	4	0	0	0	--	80	50	30	11	.00
JUL 13...	5	5	0	0	0	0	--	20	0	20	6.9	.00
AUG 07...	6	4	2	1	1	0	--	20	10	7	10	.00
SEP 07...	0	0	0	0	0	0	--	20	20	0	11	.00

DATE	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)
OCT 11...	2	0	.0	0	.00	.000	.0	.0	0	.000	1.3	.000
NOV 17...	2	0	.0	--	.00	.000	--	.0	--	.000	--	.003
DEC 15...	1	--	.0	--	.00	.000	--	.0	--	.002	--	.006
JAN 25...	2	0	.0	0	.00	.000	.0	.0	0	.000	.9	.005
FEB 16...	4	0	.0	--	.00	.000	--	.0	--	.000	--	.005
MAR 14...	2	0	.0	--	.00	.000	--	.0	--	.000	--	.000
APR 20...	0	0	.0	0	.00	.000	.0	.0	0	.001	1.0	.002
MAY 11...	1	0	.0	--	.00	.000	--	.0	--	.000	--	.011
JUN 15...	3	0	.0	--	.00	.000	--	.0	--	.000	--	.003
JUL 13...	0	0	.0	0	.00	.000	.0	.0	0	.000	.2	.000
AUG 07...	2	0	.0	--	.00	.000	--	.0	--	.000	--	.000
SEP 07...	2	0	.0	--	.00	.000	--	.0	--	.000	--	.005

RED RIVER BASIN

07355130 RED RIVER AT BOYCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 11...	1.9	.000	1.0	.01	.0	.000	.0	.000	.000	.0	.00	.0
NOV 17...	--	.000	--	.00	--	.000	--	.000	.000	--	.00	--
DEC 15...	--	.006	--	.00	--	.000	--	.000	.000	--	.00	--
JAN 25...	1.7	.007	.0	.00	.0	.000	.0	.000	.000	.0	.00	.0
FEB 16...	--	.008	--	.00	--	.000	--	.000	.000	--	.00	--
MAR 14...	--	.000	--	.00	--	.000	--	.000	.000	--	.00	--
APR 20...	2.5	.001	.0	.00	.0	.000	.0	.000	.000	.0	.00	.0
MAY 11...	--	.014	--	.01	--	.000	--	.000	.000	--	.00	--
JUN 15...	--	.002	--	.01	--	.000	--	.000	.000	--	.00	--
JUL 13...	.5	.000	.0	.01	.0	.000	.0	.000	.000	.0	.00	.0
AUG 07...	--	.004	--	.02	--	.003	--	.000	.000	--	.00	--
SEP 07...	--	.000	--	.01	--	.000	--	--	.000	--	.00	--

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)
OCT 11...	.000	.0	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00
NOV 17...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
DEC 15...	.000	--	.000	--	.001	--	.00	--	.00	.00	--	.00
JAN 25...	.000	.0	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00
FEB 16...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
MAR 14...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
APR 20...	.000	.0	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00
MAY 11...	.000	--	.000	--	.002	--	.00	--	.00	.00	--	.00
JUN 15...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
JUL 13...	.000	.0	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00
AUG 07...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
SEP 07...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00

RED RIVER BASIN

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07355130 RED RIVER AT BOYCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL (UG/KG)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 11...	.0	.00	--	.00	.0	0.0	0	.00	.0	.00	.00	.00	.00
NOV 17...	--	.00	--	.00	--	0.0	--	.00	--	.00	.00	.00	.00
DEC 15...	--	.00	--	.00	--	0.0	--	.00	--	.00	.00	.00	.00
JAN 25...	.0	.00	.0	.00	.0	0.0	0	.00	.0	.00	.00	.00	.00
FEB 16...	--	.00	--	.00	--	0.0	--	.00	--	.02	.01	.00	.00
MAR 14...	--	.00	--	.00	--	0.0	--	.00	--	--	--	--	--
APR 20...	.0	.00	.0	.00	.0	0.0	0	.00	.0	.09	.07	.09	.09
MAY 11...	--	.00	--	.00	--	0.0	--	.00	--	.17	.02	.14	.14
JUN 15...	--	.00	--	.00	--	0.0	--	.00	--	.02	.01	.00	.00
JUL 13...	.0	.00	.0	.00	.0	0.0	0	.00	.0	.03	.00	.00	.00
AUG 07...	--	.00	--	.00	--	0.0	--	.00	--	.00	.41	.01	.01
SEP 07...	--	.00	--	.00	--	0.0	--	.00	--	.05	.00	.13	.13

RED RIVER BASIN

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 08040401, 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 1977. 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) National Geodetic Vertical Datum of 1929 or 44.18 ft (13.466 m) above mean Gulf level, Mississippi River Commission datum (levels by Corps of Engineers). Prior to July 14, 1934, non-recording gage at same site and datum.

REMARKS.--Regulation by Lake Texoma, Millwood Reservoir, and Texarkana Reservoir. See Red River near Hosston (sta 07344400).

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

AVERAGE DISCHARGE.--49 years (1928-77) 31,390 ft³/s (889.0 m³/s), 22,740,000 acre-ft/yr (28.04 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 1977: Maximum discharge, 102,000 ft³/s or 2,890 m³/s (observed) Apr. 7, gage height, 25.75 ft (7.849 m); minimum daily, 4,500 ft³/s (127 m³/s) Sept. 8.

RECORDS FOR THE 1978 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 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7700	11000	8100	16000	20000	35000	76000	50000	31000	7800	6400	6500
2	7200	11000	7800	15000	19000	33000	91000	50000	35000	8100	6700	6500
3	6800	11000	7300	14000	19000	33000	97000	47000	35000	8300	6800	6000
4	6400	11000	7300	12000	22000	45000	98000	42000	34000	8600	6600	5400
5	6100	9600	7900	10000	23000	52000	99000	38000	34000	9200	6500	5200
6	6000	9300	8900	9100	22000	56000	101000	36000	34000	9900	7200	5100
7	6000	9600	10000	8700	22000	65000	102000	34000	36000	10000	8300	4700
8	6000	10000	11000	8600	21000	76000	101000	32000	37000	10000	8900	4500
9	5800	11000	12000	9900	21000	77000	99000	30000	35000	9900	9000	4900
10	5700	11000	12000	14000	22000	76000	95000	28000	31000	9000	8900	5600
11	6100	10000	12000	15000	23000	72000	91000	26000	27000	8100	8900	6400
12	7500	9300	13000	16000	26000	71000	87000	25000	26000	7000	8500	9100
13	8800	8700	14000	15000	33000	67000	83000	23000	25000	6200	8200	11000
14	9400	8000	16000	17000	39000	60000	80000	22000	23000	5400	7300	11000
15	9300	7200	17000	20000	44000	54000	77000	21000	21000	5000	6600	10000
16	9000	6400	19000	23000	49000	49000	74000	21000	19000	4900	6200	9500
17	8500	5900	23000	26000	53000	46000	71000	18000	17000	5100	5900	8700
18	8100	5600	25000	28000	54000	45000	68000	16000	16000	5400	5200	8100
19	7500	5600	25000	30000	55000	46000	62000	15000	15000	5800	5700	7700
20	7000	5900	25000	30000	54000	45000	57000	15000	14000	5900	7000	7600
21	7000	6300	25000	32000	52000	43000	57000	14000	13000	5600	7500	7100
22	7200	6400	24000	33000	49000	42000	57000	13000	11000	5200	8200	6300
23	7400	6300	23000	33000	46000	42000	59000	12000	11000	5100	8500	5500
24	7400	6300	23000	31000	43000	39000	62000	11000	10000	5400	8400	5200
25	7300	6200	23000	27000	42000	35000	66000	11000	9800	5700	8100	5600
26	7300	6400	23000	26000	41000	30000	68000	11000	9300	5700	7000	5900
27	7500	6400	21000	26000	39000	27000	67000	12000	8900	5700	6300	5700
28	8000	7100	20000	24000	37000	25000	63000	16000	8500	5800	6100	5300
29	8900	7900	18000	23000	---	26000	58000	22000	8000	5500	6100	5000
30	9800	8200	17000	21000	---	32000	54000	26000	7700	5600	6300	4600
31	10000	---	15000	21000	---	49000	---	28000	---	6000	6300	---
TOTAL	232700	244600	513300	634300	990000	1493000	2320000	765000	642200	210900	223600	199700
MEAN	7506	8153	16560	20460	35360	48160	77330	24680	21410	6803	7213	6657
MAX	10000	11000	25000	33000	55000	77000	102000	50000	37000	10000	9000	11000
MIN	5700	5600	7300	8600	19000	25000	54000	11000	7700	4900	5200	4500
AC-FT	461600	485200	1018000	1258000	1964000	2961000	4602000	1517000	1274000	418300	443500	396100
CAL YR 1976	TOTAL	6453900	MEAN	17630	MAX	68000	MIN	4900	AC-FT	12800000		
WTR YR 1977	TOTAL	8469300	MEAN	23200	MAX	102000	MIN	4500	AC-FT	10800000		

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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	1.64	3.20	1.99	5.82	8.27	12.07	20.70	16.84	11.75	1.65	.37	.34
2	1.36	3.46	1.79	5.39	8.11	11.47	23.77	16.86	12.80	1.75	.53	.51
3	1.14	3.47	1.59	4.79	7.92	11.04	24.87	16.49	12.98	1.82	.56	.35
4	.94	3.12	1.34	3.89	9.02	13.62	24.89	15.31	12.69	1.86	.49	.00
5	.78	2.59	1.64	3.07	9.41	15.31	25.11	14.32	12.53	2.16	.40	-.05
6	.64	2.34	2.14	2.42	9.07	15.97	25.37	13.60	12.59	2.52	.39	-.05
7	.68	2.44	2.84	2.17	8.71	16.87	25.63	12.93	12.98	2.70	.70	-.26
8	.64	2.79	3.69	2.09	8.42	20.07	25.52	12.30	13.32	2.82	.74	-.30
9	.58	3.09	3.91	2.27	8.31	20.24	25.08	11.67	13.03	2.75	.61	-.10
10	.44	3.24	3.97	4.82	8.31	19.92	24.59	10.99	11.73	2.34	.31	.23
11	.56	3.09	4.07	5.63	8.72	19.57	23.92	10.30	10.55	1.85	.11	.61
12	1.16	2.69	4.47	5.77	9.62	19.56	23.17	9.89	10.04	1.26	.09	2.08
13	1.99	2.34	5.37	5.65	11.34	19.13	22.33	9.31	9.77	.75	.19	3.82
14	2.44	1.99	6.27	5.97	13.07	17.96	21.70	8.92	9.04	.34	.03	4.05
15	2.49	1.54	6.82	7.47	13.97	16.86	21.35	8.65	7.95	.00	-.22	3.50
16	2.42	1.09	7.61	8.82	14.97	15.88	21.05	8.49	7.00	-.20	-.16	2.85
17	2.24	.64	9.47	10.17	15.77	15.34	20.55	7.67	6.35	-.16	-.15	2.25
18	2.04	.49	10.42	10.92	16.27	15.03	20.11	6.63	5.82	.02	-.33	1.75
19	1.74	.42	10.52	11.39	16.37	14.88	19.24	6.08	5.50	.26	-.34	1.40
20	1.49	.49	10.37	11.69	16.27	14.66	18.13	5.99	5.01	.34	.72	1.30
21	1.45	.79	10.22	11.92	16.02	13.99	17.97	5.73	4.52	.16	.97	1.05
22	1.54	.94	9.81	12.19	15.32	13.56	18.02	5.23	3.93	-.10	1.42	.45
23	1.62	.94	9.57	12.22	14.72	13.30	18.37	4.73	3.45	-.27	1.62	-.08
24	1.64	.88	9.35	11.72	14.12	12.63	19.03	4.40	3.31	-.16	1.58	-.30
25	1.56	.87	9.02	10.87	13.72	11.92	19.86	4.14	3.17	.15	1.58	-.05
26	1.55	.93	9.11	10.29	13.42	10.85	20.35	3.94	2.87	.15	.85	.27
27	1.56	.96	8.47	9.90	13.07	9.98	20.19	4.16	2.60	.10	.36	.25
28	1.80	1.14	7.62	9.47	12.62	9.39	19.43	6.29	2.32	.20	.32	.05
29	2.14	1.69	6.87	9.02	---	9.71	18.46	9.11	2.00	.00	.17	-.07
30	2.76	1.99	6.27	8.61	---	11.25	17.69	10.70	1.70	-.07	.34	-.40
31	3.00	---	6.05	8.41	---	14.82	---	11.21	---	.17	.33	---
MEAN	1.55	1.86	6.21	7.58	11.96	14.74	21.55	9.45	7.78	.88	.47	.85
MAX	3.00	3.47	10.52	12.22	16.37	20.24	25.63	16.86	13.32	2.82	1.62	4.05
MIN	.44	.42	1.34	2.09	7.92	9.39	17.69	3.94	1.70	-.27	-.34	-.40
WTR YR 1977	MEAN	7.02	MAX	25.63	MIN	-.40						

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 1977.

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, 3.0°C Jan. 22, 1978.

CHLORIDE: Maximum daily, 380 mg/L July 1, 2, 1978; 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, 1,970 micromhos June 30; minimum daily, 207 micromhos Apr. 9.

WATER TEMPERATURES: Maximum daily, 31.0°C several days during summer; minimum daily, 3.0°C Jan. 22.

CHLORIDE: Maximum daily, 380 mg/L July 1, 2; minimum daily, 14 mg/L Apr. 5, 6.

WATER QUALITY DATA. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECA, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECA, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED (MG/L AS CaCO3)
OCT 13...	1040	1300	8.2	18.5	20	30	--	--	K120	480	290
NOV 18...	0900	968	7.7	16.0	90	45	9.9	2.6	K40	210	200
DEC 16...	1400	330	7.2	13.0	110	150	9.8	5.4	2400	9600	90
JAN 30...	1600	430	7.1	3.0	60	140	12.6	3.3	K1200	4800	93
FEB 16...	1600	431	7.4	8.0	90	130	11.6	4.0	580	K3000	96
MAR 16...	1345	391	7.1	13.0	70	180	10.8	--	K1900	K950	97
APR 20...	1730	307	7.0	22.0	40	120	8.4	3.4	960	4800	81
MAY 11...	1115	288	7.5	24.0	80	240	--	4.1	K2000	--	76
JUN 15...	1030	630	8.1	28.5	30	220	4.8	2.7	5600	16000	170
JUL 14...	0815	1630	8.5	31.5	5	20	8.3	8.0	--	--	370
AUG 07...	1310	1350	8.0	31.5	10	15	8.4	7.6	K200	4200	310
SEP 08...	0900	1260	8.0	28.0	10	10	7.9	3.7	K7100	820	260

DATE	HARDNESS, NONCARBONATE DIS. (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 13...	140	77	24	140	51	3.6	4.8	178	0	146	160
NOV 18...	88	55	16	120	56	3.7	4.6	140	0	110	110
DEC 16...	13	22	8.5	29	40	1.3	4.1	94	0	77	24
JAN 30...	39	25	7.5	42	48	1.9	3.0	66	0	54	42
FEB 16...	30	26	7.6	45	49	2.0	3.3	80	0	66	45
MAR 16...	40	28	6.5	36	44	1.6	2.8	69	0	57	42
APR 20...	23	24	5.1	25	39	1.2	2.5	71	0	58	30
MAY 11...	15	23	4.6	21	36	1.0	2.6	75	0	62	23
JUN 15...	73	49	12	56	41	1.9	4.2	118	0	97	73
JUL 14...	230	91	35	200	54	4.5	5.6	159	4	137	220
AUG 07...	140	77	28	160	53	4.0	5.4	210	0	172	150
SEP 08...	150	71	21	150	55	4.0	5.0	140	0	115	160

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

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT 13...	220	.2	7.9	738	722	1.00	.01	--	--	.82	--
NOV 18...	160	.2	5.4	547	540	.74	.19	--	--	.68	--
DEC 16...	38	.1	6.8	193	179	.26	.53	--	--	1.3	--
JAN 30...	65	.1	6.4	232	224	.32	.37	.27	.83	1.1	.28
FEB 16...	64	.1	7.2	250	238	.34	.22	.22	.98	1.2	.82
MAR 16...	52	.1	5.6	207	207	.28	.29	.20	1.4	1.6	.20
APR 20...	39	.1	5.7	173	167	.24	.04	.09	4.0	4.1	3.2
MAY 11...	30	.1	5.5	160	147	.22	.39	.47	.63	1.1	.42
JUN 15...	94	.2	8.0	375	356	.51	.58	.28	.92	1.2	.66
JUL 14...	310	.3	6.5	959	951	1.30	.01	.25	1.6	1.8	.70
AUG 07...	230	.1	8.5	782	763	1.06	.32	.07	.49	.56	.08
SEP 08...	230	.2	--	711	707	.97	.01	.10	1.1	1.2	.51

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, SUS- PENDE (MG/L)
OCT 13...	--	.83	3.7	.13	--	5.6	--	--	--	--	--
NOV 18...	--	.87	3.9	.12	--	--	--	--	37000	73	218
DEC 16...	--	1.8	8.1	.37	--	--	--	--	--	81	625
JAN 30...	.82	1.5	6.5	.26	.03	--	12	--	--	--	--
FEB 16...	.38	1.4	6.3	.20	.04	12	--	--	--	49	938
MAR 16...	1.4	1.9	8.4	.39	.14	12	--	--	1400	72	862
APR 20...	.89	4.1	18	.19	.04	--	12	2.1	--	--	--
MAY 11...	.68	1.5	6.6	.40	.05	12	--	--	5900	86	1260
JUN 15...	.54	1.8	7.9	.41	.02	1.3	--	--	--	--	--
JUL 14...	1.1	1.8	8.0	.14	.02	--	4.9	4.9	--	--	--
AUG 07...	.48	.88	3.9	.10	.03	9.3	--	--	--	--	--
SEP 08...	.69	1.2	5.4	.12	.02	7.7	--	--	--	--	--

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 13...	2	0	2	--	--	--	<10	<10	0	15
JAN 30...	3	2	1	200	0	200	1	1	0	10
APR 20...	3	1	2	200	100	100	0	0	0	0
JUL 14...	2	0	2	300	0	300	2	0	2	0

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

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHROMIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)
OCT 13...	10	5	<50	<50	0	<10	<8	2	830	--
JAN 30...	0	10	1	1	0	19	13	6	8200	--
APR 20...	0	0	2	2	0	13	8	5	4300	--
JUL 14...	0	0	2	0	2	7	2	5	300	250

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGANESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 13...	30	<100	<100	0	140	130	10	.0	.0	.0
JAN 30...	140	23	21	2	310	270	40	.0	.0	.0
APR 20...	180	7	5	2	260	240	20	.0	.0	.0
JUL 14...	50	10	5	5	120	100	20	.1	.0	.1

DATE	SELENIUM, TOTAL RECOV- ERABLE (UG/L AS SE)	SELENIUM, SUS- PENDED RECOV- ERABLE (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 13...	0	0	0	--	--	--	--	0	30
JAN 30...	1	1	0	0	0	0	80	60	20
APR 20...	0	0	0	0	0	0	20	10	10
JUL 14...	0	0	0	0	0	0	20	10	10

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

RED RIVER BASIN

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07355500 RED RIVER AT ALEXANDRIA, LA--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	897	421	624	410	389	299	401	---	1940	1540	1390
2	893	694	405	645	---	366	292	370	---	1900	1440	1440
3	795	585	387	668	390	374	257	335	603	1870	1270	1520
4	857	618	398	733	375	424	231	274	520	---	1290	1520
5	1040	666	438	838	361	426	214	274	508	---	1330	1570
6	1180	736	549	807	360	446	212	327	648	---	1330	1590
7	1290	832	658	873	353	507	213	382	705	---	1350	1590
8	1280	898	572	845	362	506	210	451	390	---	1360	1260
9	1440	1040	538	803	396	557	207	326	376	1890	1320	1100
10	1410	1000	525	862	---	599	210	343	---	1840	1340	1040
11	1210	945	552	875	---	607	224	316	362	1870	1400	1090
12	1280	988	551	905	406	563	257	334	440	1870	1360	1260
13	1250	928	535	926	391	509	291	260	349	1430	1380	1380
14	1280	892	416	912	389	722	357	230	304	1770	1300	1420
15	1260	955	340	850	318	414	376	210	386	1760	1250	1390
16	1400	1030	270	930	367	404	372	214	365	1750	1310	1460
17	1450	1060	302	850	372	386	429	228	1640	1710	1290	1370
18	1430	934	304	683	373	342	448	236	1670	1660	1260	1270
19	1430	826	347	519	423	331	424	251	1660	1620	1210	1170
20	1430	776	409	552	445	311	361	247	1660	1590	1290	1190
21	1370	669	493	673	544	274	293	255	1740	1540	1230	1200
22	1360	588	599	740	607	256	359	260	1730	1480	1320	1180
23	1290	544	656	643	682	250	394	267	1680	1390	1240	1210
24	1100	574	741	742	337	256	360	279	1630	1390	1240	1250
25	1030	630	735	459	713	288	317	292	1610	1230	1390	1290
26	973	669	722	354	439	288	288	276	1640	1200	1330	1410
27	798	678	756	343	327	286	301	294	1760	1470	1310	1480
28	803	754	774	349	401	274	357	317	1690	1060	1380	1490
29	823	839	791	352	---	281	426	401	1460	1360	657	1600
30	840	601	665	371	---	400	433	411	1470	1380	963	1570
31	851	---	606	426	---	357	---	494	---	1530	1290	---
MONTH	1160	795	531	682	422	400	314	308	1120	1600	1290	1360
YEAR	MAX	1970	MIN	207	MEAN	824						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.0	21.0	12.0	10.0	6.5	16.0	16.0	23.0	---	30.0	30.0	25.0
2	27.5	20.0	12.0	8.0	---	17.0	17.0	21.0	---	30.0	29.0	27.5
3	24.0	18.5	14.0	8.0	5.0	17.5	17.5	20.0	27.0	30.5	28.0	27.0
4	23.0	17.5	14.0	8.0	6.0	18.0	18.0	19.0	26.0	---	29.0	26.5
5	21.5	18.0	16.0	11.5	7.0	19.0	19.0	18.0	26.0	---	29.0	27.0
6	22.0	17.5	14.0	9.0	7.0	20.0	20.0	21.0	27.0	---	29.0	27.0
7	22.0	18.0	12.0	13.0	5.0	20.0	20.0	22.0	26.0	---	28.0	26.0
8	23.0	18.0	11.5	11.5	6.0	21.0	21.0	22.0	26.0	---	28.0	27.5
9	22.0	18.5	12.0	9.0	7.0	10.0	21.5	22.0	26.0	31.0	28.0	27.0
10	21.0	16.0	9.5	8.0	---	10.0	22.0	21.0	27.0	30.0	28.0	27.0
11	20.0	17.5	9.0	7.5	---	10.0	20.0	22.0	27.0	30.5	28.0	26.5
12	18.0	15.0	9.0	6.0	7.0	11.0	20.0	22.0	27.0	31.0	28.0	26.5
13	17.0	14.5	12.0	6.0	9.0	12.0	19.0	21.0	26.0	30.0	29.0	27.0
14	16.5	14.0	12.0	5.0	6.0	12.0	19.0	21.5	27.0	30.0	27.0	27.0
15	17.5	15.0	11.0	5.0	9.0	13.0	20.0	22.0	27.0	30.0	27.0	26.0
16	17.0	16.0	13.0	7.0	9.0	13.0	20.5	22.5	25.5	31.0	26.0	26.5
17	17.0	16.5	14.0	6.0	10.0	13.0	21.0	24.0	27.0	31.0	28.0	27.0
18	17.5	15.5	13.5	6.0	10.0	12.0	22.0	23.0	27.0	31.0	29.0	27.0
19	18.0	15.0	13.5	5.0	6.0	13.0	21.0	24.0	26.0	30.5	29.0	27.0
20	20.0	17.0	13.5	4.0	7.0	14.0	20.0	25.0	27.5	30.0	30.0	27.0
21	20.5	17.0	9.0	4.0	7.0	15.0	19.0	26.0	28.0	31.0	28.0	27.0
22	20.0	17.0	9.5	3.0	7.0	18.0	19.0	26.0	26.0	30.0	30.0	28.0
23	21.5	17.0	10.0	4.0	7.0	17.0	21.0	26.0	27.0	30.0	29.0	24.0
24	20.0	16.0	10.0	7.0	9.0	19.0	21.0	26.0	29.5	30.0	29.0	25.0
25	20.5	16.0	10.5	7.0	7.0	19.0	22.0	26.5	30.0	28.0	29.5	24.0
26	20.0	15.0	10.0	7.0	7.0	11.0	21.0	26.0	30.0	29.0	29.0	24.0
27	20.0	14.0	10.0	7.0	10.0	10.0	20.0	27.0	30.0	29.0	28.5	24.0
28	20.0	15.0	9.0	7.0	12.0	10.0	20.0	28.0	30.0	27.0	28.5	24.0
29	20.0	15.5	8.5	6.0	---	15.0	21.0	27.0	30.0	28.0	24.5	23.5
30	21.0	14.0	10.0	6.0	---	16.0	22.0	26.0	30.0	29.0	25.0	23.0
31	21.0	---	9.5	5.0	---	15.5	---	27.0	---	29.0	25.0	---
MONTH	27.0	16.5	11.5	7.0	7.5	14.5	20.0	23.5	27.5	30.0	28.0	26.0
YEAR	MAX	31.0	MIN	3.0	MEAN	20.0						

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

DISSOLVED CHLORIDE (CL), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	140		110	53	48	28	56	88	380	280	240
2	240	140		180	52	50	20	44	88	380	260	260
3	140	91		120	55	50	20	44	90	370	200	260
4	140	88		110	57	62	16	32	84	370	220	250
5	190	110		110	55	61	14	34	90	360	240	290
6	220	110		120	53	64	14	55	89	340	220	270
7	230	150		120	52	75	18	53	93	370	230	270
8	240	140		120	58	74	16	56	62	340	230	230
9	230	170		120	59	75	16	30	78	340	230	190
10	260	230		130	62	88	19	30	58	340	220	180
11	260	170		150	52	88	19	42	73	320	240	180
12	240	180		120	57	87	21	42	73	320	220	240
13	240	180		140	62	110	16	28	72	320	240	240
14	240	180		140	68	110	47	29	---	310	240	240
15	230	170		140	62	110	41	22	94	310	200	270
16	240	170		75	70	120	47	27	---	290	240	230
17	280	220		77	60	41	47	34	310	260	220	240
18	280	230		75	70	39	49	26	310	260	220	230
19	290	160		73	90	42	38	36	300	240	200	210
20	300	160		76	80	45	38	36	320	260	220	200
21	240	140		130	120	38	38	36	330	250	220	200
22	240	150		150	120	38	38	36	310	230	210	200
23	200	98		150	120	39	38	38	320	250	230	200
24	200	91		120	70	34	40	42	300	330	260	220
25	200	98		64	75	34	29	41	300	200	240	220
26	140	100		51	75	35	41	51	300	200	230	220
27	160	110		50	60	34	40	42	340	140	230	260
28	180	140		52	60	41	42	42	360	160	240	240
29	140	140		58	---	34	31	42	370	200	130	280
30	200	100		64	---	36	54	40	370	250	170	310
31	260	---		53	---	38	---	42	---	270	240	---
MONTH	230	150		100	69	59	31	39	200	290	220	240
YEAR	MAX	380	MIN	14	MEAN	150						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7000	4000	2000	9000	6000	11000	34000	101000	49000	34000	12000	2000
2	6000	5000	3000	9000	5000	10000	29000	92000	72000	37000	12000	2000
3	6000	5000	3000	10000	4000	10000	27000	84000	76000	41000	13000	1000
4	6000	5000	3000	14000	4000	9000	23000	69000	65000	47000	12000	1000
5	6000	5000	3000	19000	4000	8000	21000	55000	55000	50000	12000	1000
6	6000	6000	3000	21000	4000	8000	17000	40000	49000	54000	10000	2000
7	5000	6000	3000	24000	3000	10000	15000	35000	43000	58000	8000	2000
8	4000	6000	3000	24000	3000	12000	15000	27000	37000	55000	8000	3000
9	3000	5000	3000	22000	3000	21000	14000	25000	35000	49000	7000	3000
10	3000	4000	3000	20000	2000	36000	13000	27000	30000	53000	7000	2000
11	4000	4000	3000	20000	2000	78000	12000	43000	27000	53000	6000	2000
12	4000	3000	4000	15000	2000	152000	10000	65000	25000	50000	5000	2000
13	5000	3000	4000	15000	2000	207000	8000	84000	21000	39000	4000	1000
14	7000	3000	5000	14000	2000	228000	7000	88000	19000	31000	4000	1000
15	5000	2000	4000	12000	2000	241000	6000	76000	17000	26000	3000	1000
16	9000	2000	4000	9000	2000	269000	5000	62000	15000	24000	3000	2000
17	9000	2000	3000	9000	2000	266000	6000	58000	15000	32000	3000	2000
18	7000	2000	3000	9000	2000	241000	6000	52000	15000	45000	3000	2000
19	6000	2000	3000	8000	3000	192000	6000	52000	17000	46000	3000	2000
20	5000	2000	3000	8000	4000	155000	5000	58000	25000	44000	3000	2000
21	5000	2000	4000	6000	5000	124000	5000	58000	29000	45000	2000	2000
22	4000	1000	4000	5000	8000	92000	4000	55000	32000	42000	2000	3000
23	4000	1000	4000	4000	11000	70000	4000	49000	37000	37000	1000	3000
24	3000	1000	4000	3000	15000	54000	4000	43000	46000	35000	1000	3000
25	4000	1000	5000	3000	16000	47000	21000	35000	49000	35000	1000	3000
26	12000	1000	5000	4000	13000	43000	62000	30000	49000	36000	1000	3000
27	15000	1000	5000	5000	11000	42000	101000	25000	49000	31000	1000	3000
28	13000	2000	7000	6000	10000	42000	114000	21000	45000	23000	1000	4000
29	9000	1000	8000	7000	10000	38000	110000	19000	37000	18000	1000	3000
30	8000	2000	10000	6000	---	35000	105000	19000	32000	15000	1000	---
31	5000	---	10000	6000	---	37000	---	23000	---	15000	1000	---
MONTH	6290	2970	4230	11200	5520	89900	27000	50600	37100	38700	4870	2230
YEAR	MAX	269000	MIN	1000	MEAN	23500						

RED RIVER BASIN

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07355500 RED RIVER AT ALEXANDRIA, LA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4000	7000	2000	15000	2000	85000	247000	110000	62000	2000	2000	3000
2	3000	7000	2000	14000	3000	75000	366000	106000	82000	3000	2000	3000
3	3000	6000	2000	16000	4000	66000	427000	90000	81000	3000	1000	3000
4	3000	6000	2000	23000	6000	45000	448000	69000	76000	3000	1000	2000
5	3000	5000	2000	28000	11000	44000	471000	54000	76000	3000	1000	2000
6	3000	4000	3000	31000	15000	47000	504000	49000	75000	4000	1000	2000
7	3000	5000	4000	34000	19000	48000	528000	45000	84000	4000	1000	2000
8	3000	5000	5000	35000	22000	47000	527000	40000	88000	4000	1000	2000
9	3000	6000	6000	32000	27000	42000	514000	36000	78000	4000	1000	2000
10	3000	6000	38000	29000	30000	244000	481000	32000	61000	3000	1000	2000
11	3000	5000	38000	24000	35000	216000	449000	28000	46000	2000	1000	3000
12	5000	4000	45000	20000	45000	207000	417000	26000	42000	2000	1000	5000
13	7000	4000	49000	15000	57000	181000	386000	22000	39000	1000	1000	7000
14	8000	3000	50000	13000	73000	143000	364000	21000	32000	1000	1000	5000
15	8000	3000	45000	11000	78000	114000	343000	19000	27000	1000	1000	4000
16	7000	2000	35000	10000	90000	92000	322000	20000	22000	1000	1000	4000
17	7000	2000	32000	9000	93000	80000	301000	15000	17000	1000	1000	3000
18	6000	2000	31000	8000	106000	75000	281000	12000	15000	1000	1000	3000
19	5000	1000	26000	7000	105000	78000	237000	10000	13000	1000	1000	3000
20	5000	2000	24000	6000	154000	73000	204000	11000	11000	2000	2000	2000
21	5000	2000	20000	5000	172000	66000	207000	10000	9000	1000	3000	2000
22	5000	2000	19000	5000	192000	62000	150000	8000	6000	1000	4000	1000
23	5000	2000	17000	9000	180000	61000	206000	7000	6000	1000	5000	1000
24	5000	2000	15000	12000	159000	52000	219000	6000	5000	2000	5000	1000
25	4000	2000	15000	13000	101000	43000	240000	6000	5000	2000	6000	1000
26	4000	2000	20000	17000	71000	32000	245000	7000	4000	2000	4000	2000
27	4000	2000	22000	22000	54000	27000	229000	8000	4000	2000	3000	2000
28	4000	2000	20000	28000	55000	24000	195000	15000	3000	2000	3000	1000
29	5000	2000	20000	1000	---	26000	159000	29000	3000	2000	3000	1000
30	6000	2000	18000	1000	---	41000	133000	42000	2000	2000	3000	1000
31	6000	---	15000	1000	---	99000	---	50000	---	2000	3000	---
MONTH	4680	3500	20700	15900	70000	81800	328300	32400	35000	2100	2100	2630
YEAR	MAX	528000	MIN	1000	MEAN	49400						

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

NOV. 18, 1977 0900 HOURS

PHYTOPLANKTON 37,000 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	200	1
...OOCYSTACEAE		
....ANKISTRODESMUS	350	1
....CHODATELLA	39	0
...OOCYSTIS	310	1
....QUADRIGULA	160	0
...SCENEDESMACEAE		
....ACTINASTRUM		0
....CRUCIGENIA	470	1
...SCENEDESMUS	1,600	4
....TETRASTRUM	160	0
CHRYCOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCIINODISCACEAE		
....CYCLOTETLLA	1,300	4
....MELOSIRA	2,100	6
...STEPHANODISCUS	78	0
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	39	0
...NAVICULACEAE		
....NAVICULA	120	0
...NITZSCHIA		
....NITZSCHIA	78	0
CYANOPHYTA		
..CYANOPHYCEAE		
...CHROCCOCCALES		
...CHROCCOCCACEAE		
....AGMENELLUM	6,300	17
....ANACYSTIS	3,900	11
...HORMOGONALES		
...OSCILLATORIA		
....LYNGBYA	5,600	15
...OSCILLATORIA	13,000	34
...CHROCCOCCALES		
...CHROCCOCCACEAE		
....GOMPHOSPHAE	1,600	4

MAR. 16, 1978 1345 HOURS

PHYTOPLANKTON 1,400 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...SCENEDESMACEAE		
...SCENEDESMUS	30	2
CHRYCOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCIINODISCACEAE		
....CYCLOTETLLA	100	7
....MELOSIRA	100	7
...STEPHANODISCUS	89	6
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	89	6
...NAVICULACEAE		
....NAVICULA	120	9
...NITZSCHIA		
....NITZSCHIA	100	7
CYANOPHYTA		
..CYANOPHYCEAE		
...HORMOGONALES		
...NOSTOCACEAE		
....APHANIZOMENON	210	15
...OSCILLATORIA		
....LYNGBYA	180	13
...OSCILLATORIA	370	27

MAY 11, 1978 1115 HOURS

PHYTOPLANKTON 5,900 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...OOCYSTACEAE		
....OOCYSTIS	730	12
...SCENEDESMACEAE		
...SCENEDESMUS	240	4
...VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	61	1
CHRYCOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCIINODISCACEAE		
....COSCIINODISCUS	91	2
....CYCLOTETLLA	300	5
....MELOSIRA	2,500	42
..PENNALES		
...NITZSCHIA		
....NITZSCHIA	91	2
CYANOPHYTA		
..CYANOPHYCEAE		
...HORMOGONALES		
...OSCILLATORIA		
....LYNGBYA	1,800	31
EUGLENOPHYTA		
..CRYPTOPHYCEAE		
...CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	61	1
..EUGLENACEAE		
...EUGLENALES		
....EUGLENALES		
....TRACHELOMONAS	61	1

RED RIVER BASIN

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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.

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS, DIS-SOLVED AS CaCO3
OCT 13...	1230	1280	8.2	19.0	15	25	--	31	--	1100	K100	290
NOV 18...	1100	1020	7.8	16.0	90	45	10.2	82	3.6	280	K110	250
DEC 16...	1625	333	7.2	13.5	120	200	9.3	45	3.6	K17000	K2200	120
JAN 30...	1400	368	6.8	4.0	60	150	12.2	38	2.2	K3400	K550	78
FEB 16...	1530	369	7.3	8.5	120	170	11.4	41	4.4	4400	K1300	90
MAR 16...	1530	400	7.3	13.0	70	190	10.3	32	--	--	K2000	130
APR 20...	1630	413	7.5	22.0	60	150	7.7	31	4.1	1400	500	110
MAY 11...	1250	396	7.6	23.0	80	250	7.6	50	5.6	34000	720	100
JUN 15...	1630	328	7.8	30.0	50	275	5.8	30	4.2	K94000	K1700	100
JUL 14...	1130	1660	8.2	33.0	10	10	9.5	32	8.9	K110000	--	380
AUG 07...	1110	1340	8.3	30.5	15	20	8.8	49	6.8	76000	K170	300
SEP 08...	1100	1610	8.1	27.5	10	15	9.1	21	2.7	260	230	340

DATE	HARDNESS, NONCARBONATE, DIS- (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	SETTLABLE MATTER (ML/L/HR)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
OCT 13...	140	78	24	176	0	146	160	230	38	<1.0	.00	.01
NOV 18...	130	67	19	140	0	110	130	190	66	<1.0	.03	.01
DEC 16...	44	37	7.4	96	0	79	25	39	400	<1.0	.36	.05
JAN 30...	27	21	6.1	62	0	51	34	54	262	<1.0	.34	.03
FEB 16...	32	24	7.2	70	0	57	40	58	206	<1.0	.26	.01
MAR 16...	62	39	6.8	77	0	63	45	43	480	<1.0	.00	.00
APR 20...	40	32	6.6	85	0	70	42	54	276	<1.0	.18	.04
MAY 11...	34	30	6.3	81	0	66	38	49	652	<1.0	.47	.06
JUN 15...	10	29	7.3	110	0	90	26	25	1020	<1.0	.63	.02
JUL 14...	230	98	32	173	0	140	210	310	9	<1.0	.01	.00
AUG 07...	120	75	28	220	0	180	140	230	30	<1.0	.00	.01
SEP 08...	200	91	27	170	0	140	210	290	55	<1.0	.00	.01

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

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

RED RIVER BASIN

07355600 RED RIVER AT MONCLA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 13...	.01	.47	.14	2	1	1	0	0	0	<10	<10	0
NOV 16...	.04	.64	.15	2	1	1	0	0	0	0	0	0
DEC 16...	.41	.98	.34	3	2	1	0	0	0	0	0	0
JAN 30...	.37	.00	.24	3	2	1	0	0	0	0	0	0
FEB 16...	.27	.88	.06	3	1	2	0	0	0	1	1	0
MAR 16...	.00	.44	.36	3	2	1	0	0	0	1	0	1
APR 20...	.22	.94	.22	3	2	1	0	0	0	1	0	1
MAY 11...	.53	.19	.69	6	6	0	0	0	0	1	0	1
JUN 15...	.65	.85	.46	5	4	1	0	0	0	1	0	1
JUL 14...	.01	.32	.09	2	0	2	0	0	0	1	0	1
AUG 07...	.01	.70	.12	3	1	2	10	9	1	2	1	1
SEP 08...	.01	.71	.12	4	2	2	0	0	0	0	0	0

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 13...	5	0	10	8	2	10	<100	<100	0	.1	.1	.0
NOV 16...	0	0	16	14	2	20	13	13	0	.2	.2	.0
DEC 16...	10	0	11	9	2	70	10	9	1	.0	.0	.0
JAN 30...	10	0	12	8	4	140	14	12	2	.0	.0	.0
FEB 16...	20	0	13	10	3	70	14	14	0	.0	.0	.0
MAR 16...	10	0	14	11	3	50	2	0	2	.0	.0	.0
APR 20...	0	0	10	1	9	50	20	16	4	.0	.0	.0
MAY 11...	20	0	29	23	6	0	25	18	7	.0	.0	.0
JUN 15...	30	0	36	26	10	40	140	140	4	.1	.1	.0
JUL 14...	0	0	9	4	5	40	9	5	4	.0	.0	.0
AUG 07...	10	0	6	1	5	10	14	14	0	.0	.0	.0
SEP 08...	20	0	7	3	4	40	7	7	0	.0	.0	.0

RED RIVER BASIN

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07355600 RED RIVER AT MONCLA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE D RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE D TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE D RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT 13...	<50	<50	0	0	0	0	3.7	30	0	30	4.7	.00
NOV 18...	5	5	0	0	0	0	--	10	0	10	7.0	.00
DEC 16...	18	17	1	0	0	0	.7	40	30	10	12	.00
JAN 30...	14	13	1	2	2	0	1.0	40	30	10	13	.00
FEB 16...	18	18	0	0	0	0	1.0	40	30	10	8.5	.00
MAR 16...	14	12	2	1	1	0	1.0	40	30	10	11	.00
APR 20...	9	8	1	0	0	0	1.0	30	20	10	8.3	.00
MAY 11...	20	18	2	0	0	0	1.0	60	40	20	13	.00
JUN 15...	28	25	3	0	0	0	1.6	110	90	20	14	.00
JUL 14...	7	5	2	0	0	0	--	20	0	20	7.3	.00
AUG 07...	5	3	2	1	1	0	--	10	7	<3	11	.00
SEP 08...	0	0	0	0	0	0	--	20	10	10	9.4	.00

DATE	PHENOLS (UG/L)	GIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)
OCT 13...	4	0	.0	0	.00	.000	.0	.0	0	.000	.0	.000
NOV 18...	5	0	.0	--	.00	.000	--	.0	--	.000	--	.002
DEC 16...	5	--	.0	--	.00	.000	--	.0	--	.000	--	.000
JAN 30...	5	0	.0	0	.00	.000	.0	.0	0	.000	.0	.007
FEB 16...	1	0	.0	--	.00	.000	--	.0	--	.000	--	.018
MAR 16...	0	0	.0	--	.00	.000	--	.0	--	.000	--	.000
APR 20...	5	0	--	--	--	--	--	--	--	--	--	--
MAY 11...	0	0	.0	--	.00	.000	--	.0	--	.000	--	.012
JUN 15...	0	0	.0	--	.00	.000	--	.0	--	.000	--	.003
JUL 14...	1	0	.0	0	.00	.000	.0	.0	0	.000	.0	.000
AUG 07...	3	0	.0	--	.00	.000	--	.0	--	.001	--	.002
SEP 08...	3	0	.0	--	.00	.000	--	.0	--	.000	--	.001

RED RIVER BASIN

07355600 RED RIVER AT MONCLA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
OCT 13...	.0	.000	.0	.02	.0	.000	.0	.000	.000	.0	.00	.0
NOV 18...	--	.000	--	.00	--	.000	--	.000	.000	--	.00	--
DEC 16...	--	.001	--	.01	--	.000	--	.000	.000	--	.00	--
JAN 30...	.0	.008	.0	.02	.0	.000	.0	.000	.000	.0	.00	.0
FEB 16...	--	.021	--	.00	--	.000	--	.000	.000	--	.00	--
MAR 16...	--	.000	--	.00	--	.000	--	.000	.000	--	.00	--
APR 20...	--	--	--	.00	--	--	--	--	--	--	.00	--
MAY 11...	--	.019	--	.01	--	.000	--	.000	.000	--	.00	--
JUN 15...	--	.000	--	.01	--	.001	--	.000	.000	--	.00	--
JUL 14...	.0	.004	.0	.00	.0	.000	.0	.016	.000	.0	.00	.0
AUG 07...	--	.004	--	.01	--	.000	--	.000	.000	--	.00	--
SEP 08...	--	.000	--	.01	--	.001	--	.000	.000	--	.00	--

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)
OCT 13...	.000	.0	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00
NOV 18...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
DEC 16...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
JAN 30...	.000	.0	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00
FEB 16...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
MAR 16...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
APR 20...	--	--	--	--	--	--	.00	--	.00	.00	--	.00
MAY 11...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
JUN 15...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00
JUL 14...	.000	.0	.000	.0	.000	.0	.00	.0	.00	.00	.0	.00
AUG 07...	.000	--	.001	--	.000	--	.00	--	.00	.00	--	.00
SEP 08...	.000	--	.000	--	.000	--	.00	--	.00	.00	--	.00

RED RIVER BASIN

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07355600 RED RIVER AT MONCLA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 13...	.0	.00	.00	.0	0.0	0	.00	.0	.01	.00	.00
NOV 18...	--	.00	.00	--	0.0	--	.00	--	.00	.00	.00
DEC 16...	--	.00	.00	--	0.0	--	.00	--	.00	.00	.00
JAN 30...	.0	.00	.00	.0	0.0	0	.00	.0	.01	.01	.00
FEB 16...	--	.00	.00	--	0.0	--	.00	--	.02	.01	.00
MAR 16...	--	.00	.00	--	0.0	--	.00	--	.02	.01	.00
APR 20...	--	--	.00	--	--	--	.00	--	.10	.01	.19
MAY 11...	--	.00	.00	--	0.0	--	.00	--	--	--	--
JUN 15...	--	.00	.00	--	0.0	--	.00	--	.05	.02	.00
JUL 14...	.0	.00	.00	.0	0.0	0	.00	.0	.00	.00	.00
AUG 07...	--	.00	.00	--	0.0	--	.00	--	.15	.01	.01
SEP 08...	--	.00	.00	--	0.0	--	.00	--	.00	.00	.00

RED RIVER BASIN

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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 26, 1958, nonrecording gage at same site and datum. Water-stage recorder for Ouachita River at 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). Considerable regulation by 5 reservoirs in Arkansas, combined capacity, 3,107,880 acre-ft (3.83 km³), and a series of navigation locks and dams. Records of dissolved oxygen and water temperatures for the water year 1978 are published under miscellaneous water-quality sites in this report. Records of chemical analyses for Lock and Dam No. 6 for the water year 1978 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 since 1912, 44.2 ft (13.47 m) Apr. 11, 12, 1945; minimum, -0.3 ft (-0.09 m) Nov. 11, 1916; minimum since 1928, 5.8 ft (1.76 m) Aug. 25, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.80 ft (7.864 m) May 20; minimum daily discharge, 629 ft³/s (17.8 m³/s) Oct. 15; minimum gage height, 7.77 ft (2.368 m) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4530	804	6240	1700		7030	14600	7740		3230	2750	2370
2	4500	903	7420	2310		7440	13300	7270		3130	3000	1820
3	3410	776	8940	3020		8330	12200	7510		2600	3140	1640
4	3820	2300	9980	2290		8880	10800	8100		1750	2820	1520
5	4420	3880	10400	1380		10400	7520	10900	11400	1790	3310	1570
6	1760	5350	9940	1410		10900	7440	12500	10800	1880	2030	1650
7	1000	3630	7800	1720		12000	7300	13800	9920	1950	1940	1770
8	1020	1940	7240	1890		12200	7060		8560	1950	1850	1640
9	962	1810	8140	1930		11900	6490		7980	1880	1610	1720
10	966	1910	8320	1810		13000	5910		8680	1850	1710	1710
11	927	2310	8430	2290		14000	5400		8880	1800	1660	1670
12	789	2330	8180	4200		14600	4520		7530	1840	1660	1650
13	688	2180	8060	6100		14900	4480		6420	1790	1780	1590
14	688	1980	6300	6930		15000	4470		5740	1860	1580	1640
15	629	1550	5240	7120	13400	14600	4410		4400	1900	1340	1690
16	718	999	4000	7380	13700	14500	4250		4100	1850	1570	4030
17	822	877	3000	8420	14000	14800	4110		3960	1870	1690	4850
18	815	2310	3020	10100	14100	15400	3940		3490	1840	1780	3090
19	769	4560	3080	11700	14000		3960		2310	1670	2000	2680
20	786	5060	3050	13700	13800		5290		1310	1610	1990	2700
21	836	5770	3150	14500	13200		7350		2080	1600	2230	4160
22	843	3870	3280	14800	12600		7290		2150	1630	2360	5370
23	836	3660	4000	15000	12000		5890		2770	1730	1840	5720
24	966	5410	4400	15300	11700		4490		3350	1950	1410	5550
25	1030	6540	3760	15400	9700		7090		3360	1840	1420	5250
26	988	6530	3100	15500	9000		9850		3100	1580	1430	4900
27	962	4490	2510		8830		12000		2800	1630	2010	3740
28	938	3240	1610		7490		12500		2840	1650	2380	3020
29	881	3660	1380		---		12200		3000	2350	2940	2960
30	843	4710	1490		---		10400		3090	2880	3080	2650
31	896	---	1390		---		---		---	2700	2650	---
TOTAL	44038	95339	166850	---	---	---	226510	---	---	61580	64960	86320
MEAN	1421	3178	5382	---	---	---	7550	---	---	1986	2095	2877
MAX	4530	6540	10400	---	---	---	14600	---	---	3230	3310	5720
MIN	629	776	1380	1380	7490	7030	3940	7270	1310	1580	1340	1520

RED RIVER BASIN

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

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.57	8.02	11.88	8.40	20.53	13.94	18.89	14.55	21.27	9.44	9.15	8.72
2	10.53	8.04	12.75	8.75	20.74	14.10	18.21	14.00	20.65	9.36	9.32	8.29
3	9.70	7.89	13.80	9.35	20.86	14.67	17.58	14.06	20.01	8.97	9.35	8.23
4	9.96	8.72	14.50	8.88	20.95	15.00	16.70	14.50	19.46	8.30	9.06	8.21
5	10.50	10.01	14.78	8.28	20.96	15.84	14.81	15.60	18.81	8.33	9.33	8.23
6	8.44	11.17	14.58	8.30	20.91	16.12	14.48	16.75	17.96	8.38	8.50	8.24
7	7.92	9.95	13.30	8.50	20.81	16.75	14.17	18.20	16.99	8.44	8.44	8.30
8	8.04	8.56	12.71	8.57	20.65	16.90	13.80	19.97	15.64	8.48	8.36	8.25
9	8.00	8.48	13.28	8.53	20.48	16.79	13.21	21.07	14.81	8.43	8.22	8.28
10	8.01	8.52	13.38	8.50	20.35	17.38	12.64	21.61	14.78	8.38	8.25	8.25
11	7.95	8.79	13.47	8.75	20.20	17.90	12.26	22.03	14.83	8.33	8.28	8.26
12	7.88	8.81	13.34	10.26	19.93	18.26	11.40	22.63	13.65	8.35	8.27	8.25
13	7.90	8.68	13.31	11.71	19.70	18.50	11.28	23.52	12.53	8.35	8.26	8.25
14	7.90	8.56	12.53	12.39	19.29	18.65	11.23	24.36	11.81	8.40	8.24	8.28
15	7.84	8.36	11.40	12.56	18.98	18.54	11.13	24.98	10.81	8.44	8.22	8.92
16	7.82	8.11	10.66	12.80	18.91	18.54	10.95	25.36	10.38	8.34	8.21	10.35
17	7.88	7.94	9.51	13.57	18.89	18.70	10.78	25.59	10.21	8.35	8.21	10.95
18	7.86	8.70	9.45	14.60	18.88	18.96	10.61	25.72	9.79	8.43	8.26	9.60
19	7.83	10.52	9.50	15.66	18.78	19.18	10.58	25.79	9.01	8.30	8.40	9.15
20	7.87	11.07	9.43	16.88	18.59	19.39	11.72	25.79	8.47	8.25	8.42	9.10
21	7.92	11.58	9.50	17.50	18.26	19.54	13.55	25.72	8.59	8.28	8.62	10.20
22	7.94	10.20	9.62	17.74	17.86	19.56	13.64	25.59	8.64	8.35	8.76	11.20
23	7.96	9.83	10.23	18.00	17.49	19.46	12.62	25.39	9.07	8.46	8.34	11.49
24	8.01	11.21	10.53	18.32	17.16	19.44	10.98	25.13	9.55	8.61	8.03	11.38
25	7.98	12.10	10.04	18.60	16.12	19.41	13.38	24.68	9.58	8.43	8.02	11.15
26	7.95	12.14	9.46	18.80	15.49	19.42	15.40	24.32	9.39	8.34	8.04	10.87
27	8.00	10.73	9.00	19.06	15.30	19.47	16.68	23.91	9.13	8.39	8.42	9.97
28	8.00	9.53	8.40	19.40	14.50	19.55	17.02	23.46	9.10	8.35	8.78	9.29
29	7.95	9.83	8.28	19.70	---	19.59	16.93	22.95	9.22	8.70	9.30	9.24
30	7.98	10.75	8.35	20.00	---	19.55	15.90	22.42	9.32	9.24	9.34	8.98
31	8.03	---	8.30	20.28	---	19.38	---	21.88	---	9.12	8.97	---
MEAN	8.33	9.56	11.27	13.63	18.98	18.02	13.75	21.98	12.78	8.53	8.56	9.26
MAX	10.57	12.14	14.78	20.28	20.96	19.59	18.89	25.79	21.27	9.44	9.35	11.49
MIN	7.82	7.89	8.28	8.28	14.50	13.94	10.58	14.00	8.47	8.25	8.02	8.21

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Considerable regulation by 5 reservoirs in Arkansas, combined capacity, 3,107,880 acre-ft (3.83 km³) and a series of navigation locks and dams.

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, 25.82 ft (7.870 m) May 19, 20; minimum, 8.14 ft (2.481 m) Oct. 7.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.42	8.39	10.06	8.51	16.85	12.20	15.93	12.59	20.94	8.81	8.83	8.49
2	9.38	8.39	10.56	8.59	17.20	11.98	15.60	12.01	20.26	8.78	8.86	8.30
3	9.09	8.26	11.10	8.90	17.54	12.15	15.15	11.82	19.47	8.68	8.74	8.33
4	9.07	8.56	11.59	8.80	17.86	12.36	14.57	11.98	18.69	8.36	8.58	8.36
5	9.42	9.08	11.82	8.50	18.14	12.76	13.41	11.27	17.88	8.38	8.45	8.36
6	8.53	9.63	11.80	8.51	18.34	13.02	12.79	12.81	17.00	8.39	8.45	8.34
7	8.23	9.31	11.38	8.62	18.43	13.36	12.32	15.08	16.07	8.42	8.43	8.35
8	8.36	8.59	10.70	8.63	18.42	13.60	11.87	17.47	14.84	8.48	8.38	8.36
9	8.33	8.56	10.90	8.56	18.34	13.65	11.40	19.27	13.96	8.45	8.33	8.35
10	8.34	8.56	10.92	8.58	18.17	13.86	11.00	20.50	13.52	8.41	8.32	8.32
11	8.29	8.66	10.99	8.61	17.98	14.20	10.93	21.45	13.09	8.37	8.38	8.35
12	8.25	8.67	11.00	9.20	17.80	14.45	10.40	22.40	12.39	8.37	8.37	8.35
13	8.29	8.60	11.09	9.86	17.70	14.70	10.23	23.50	11.27	8.40	8.29	8.38
14	8.29	8.57	11.00	10.36	17.42	15.00	10.15	24.38	10.55	8.43	8.37	8.39
15	8.24	8.53	10.29	10.51	17.07	15.15	10.03	25.00	10.07	8.46	8.45	9.12
16	8.20	8.44	9.82	10.74	16.76	15.18	9.90	25.37	9.59	8.35	8.34	9.61
17	8.24	8.29	9.19	11.26	16.52	15.25	9.77	25.62	9.41	8.35	8.28	9.80
18	8.22	8.51	9.07	11.71	16.36	15.35	9.67	25.75	9.17	8.48	8.29	9.25
19	8.20	9.27	9.10	12.36	16.17	15.48	9.59	25.82	8.97	8.40	8.33	8.90
20	8.24	9.81	9.01	12.98	16.00	15.63	9.94	25.79	8.74	8.37	8.36	8.80
21	8.28	10.00	9.02	13.52	15.78	15.78	10.87	25.71	8.54	8.41	8.46	9.12
22	8.30	9.51	9.10	13.80	15.46	15.88	11.19	25.57	8.56	8.48	8.56	9.68
23	8.32	9.01	9.25	14.05	15.15	15.94	10.97	25.35	8.66	8.57	8.36	9.88
24	8.34	9.64	9.51	14.50	14.78	16.01	9.62	25.08	8.86	8.65	8.19	9.84
25	8.29	10.18	9.32	15.02	14.28	16.04	10.90	24.72	8.92	8.48	8.18	9.72
26	8.27	10.29	9.00	15.38	13.55	16.04	12.25	24.34	8.88	8.49	8.20	9.56
27	8.33	9.82	8.81	15.62	13.25	16.06	13.08	23.91	8.74	8.53	8.35	9.19
28	8.34	8.98	8.55	15.85	12.76	16.10	13.44	23.41	8.64	8.47	8.58	8.78
29	8.30	9.03	8.50	16.07	---	16.12	13.55	22.86	8.66	8.47	8.90	8.76
30	8.34	9.56	8.54	16.29	---	16.12	13.34	22.26	8.75	8.85	8.81	8.64
31	8.38	---	8.52	16.53	---	16.09	---	21.61	---	8.82	8.62	---
MEAN	8.46	9.02	9.98	11.63	16.57	14.69	11.80	21.12	12.10	8.50	8.45	8.86
MAX	9.42	10.29	11.82	16.53	18.43	16.12	15.93	25.82	20.94	8.85	8.90	9.88
MIN	8.20	8.26	8.50	8.50	12.76	11.98	9.59	11.27	8.54	8.35	8.18	8.30

RED RIVER BASIN

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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) National Geodetic Vertical Datum of 1929 (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. Records of dissolved oxygen and water temperatures for the water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--21 years, 1,234 ft³/s (34.95 m³/s), 894,000 acre-ft/yr (1.10 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, 4,240 ft³/s (120 m³/s) May 17; maximum gage height, 23.53 ft (7.172 m) May 16; minimum daily discharge, 50 ft³/s (1.416 m³/s) July 26, 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	106	155	186	1880	860	589	468	1880	297	65	72
2	115	109	141	175	1930	850	557	406	1760	266	64	71
3	122	104	127	167	1960	859	524	354	1660	238	61	71
4	124	98	119	160	2000	872	488	308	1550	213	58	71
5	121	96	117	154	2040	891	452	266	1470	183	58	71
6	115	93	120	161	2080	918	416	238	1420	161	58	74
7	110	90	129	162	2110	954	384	715	1440	151	59	78
8	107	89	146	172	2150	980	354	1260	1430	146	57	81
9	106	91	171	199	2170	982	326	1620	1420	136	54	82
10	100	93	191	187	2190	988	315	2070	1360	123	55	85
11	93	98	204	183	2190	998	387	2710	1290	109	59	89
12	89	101	224	200	2180	1010	391	3130	1220	99	62	99
13	88	99	321	216	2190	1030	375	3550	1150	90	62	119
14	90	96	502	216	2150	1080	363	3770	1080	84	64	156
15	96	91	547	205	2100	1110	361	4000	1000	80	72	201
16	105	87	580	234	2030	1130	363	4170	918	76	74	230
17	113	86	614	384	1960	1150	353	4210	830	74	74	246
18	119	90	629	436	1880	1160	346	4150	746	67	73	249
19	120	107	619	533	1770	1170	331	4060	667	62	72	244
20	118	128	595	643	1680	1180	310	3930	591	59	69	230
21	113	229	556	725	1580	1170	294	3780	534	58	67	211
22	108	273	504	762	1460	1140	313	3600	482	58	66	188
23	103	218	462	781	1340	1090	391	3400	441	56	64	166
24	100	179	414	970	1230	1040	479	3180	416	55	61	146
25	101	155	368	1080	1120	977	565	2950	396	52	57	129
26	106	140	332	1130	1020	909	612	2740	379	50	56	115
27	110	129	290	1240	934	838	612	2570	366	51	55	105
28	114	122	255	1400	890	776	594	2420	356	51	53	101
29	115	119	231	1540	---	722	562	2290	340	50	73	101
30	113	143	215	1670	---	674	517	2160	321	51	75	105
31	109	---	199	1780	---	629	---	2020	---	59	75	---
TOTAL	3350	3659	10077	18051	50214	30137	12924	76495	28913	3305	1972	3986
MEAN	108	122	325	582	1793	972	431	2468	964	107	63.6	133
MAX	124	273	629	1780	2190	1180	612	4210	1880	297	75	249
MIN	88	86	117	154	890	629	294	238	321	50	53	71
AC-FT	6640	7260	19990	35800	99600	59780	25630	151700	57350	6560	3910	7910
CAL YR 1977	TOTAL	235068	MEAN 644	MAX 2890	MIN 86	AC-FT 466300						
WTR YR 1978	TOTAL	243083	MEAN 666	MAX 4210	MIN 50	AC-FT 482200						

RED RIVER BASIN

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.90	1.88	2.68	3.05	13.61	9.02	6.54	5.58	14.78	4.15	---	1.13
2	2.05	1.93	2.48	2.93	13.93	8.86	6.26	5.08	14.23	3.87	---	1.11
3	2.17	1.84	2.25	2.82	14.13	8.83	5.99	4.65	13.68	3.60	---	1.10
4	2.20	1.72	2.11	2.73	14.27	8.88	5.72	4.25	13.16	3.35	---	1.10
5	2.15	1.67	2.08	2.65	14.39	9.07	5.44	3.87	12.70	3.02	---	1.10
6	2.06	1.61	2.13	2.75	14.49	9.24	5.16	3.60	12.36	2.75	---	1.18
7	1.96	1.57	2.28	2.76	14.64	9.45	4.90	8.44	12.30	2.61	---	1.28
8	1.89	1.54	2.54	2.89	14.77	9.60	4.65	12.62	12.28	2.54	---	1.34
9	1.88	1.58	2.88	3.20	14.87	9.60	4.42	15.43	12.15	2.40	---	1.38
10	1.77	1.63	3.11	3.07	14.95	9.60	4.31	18.91	11.87	2.19	---	1.46
11	1.62	1.73	3.25	3.02	14.98	9.63	5.02	20.39	11.47	1.93	---	1.55
12	1.53	1.77	3.46	3.21	14.99	9.68	5.21	21.30	10.99	1.73	---	1.74
13	1.51	1.75	4.34	3.38	15.13	9.77	5.13	22.11	10.45	1.56	---	2.12
14	1.56	1.67	5.90	3.38	15.04	10.10	4.99	22.76	9.92	1.43	---	2.68
15	1.69	1.58	6.22	3.27	14.86	10.39	4.86	23.33	9.40	1.32	1.11	3.22
16	1.86	1.51	6.44	3.55	14.62	10.55	4.74	23.52	8.87	1.23	1.17	3.52
17	2.02	1.47	6.68	4.92	14.33	10.65	4.64	23.48	8.30	1.17	1.18	3.68
18	2.11	1.56	6.82	5.35	14.01	10.73	4.58	23.29	7.71	---	1.15	3.71
19	2.13	1.89	6.82	6.05	13.75	10.78	4.46	22.97	7.12	---	1.12	3.66
20	2.09	2.27	6.71	6.82	13.43	10.74	4.27	22.55	6.55	---	---	3.52
21	2.01	3.45	6.47	7.39	12.99	10.60	4.12	22.05	6.07	---	---	3.33
22	1.91	3.93	6.14	7.75	12.47	10.35	4.30	21.47	5.67	---	---	3.08
23	1.81	3.40	5.75	7.97	11.90	10.00	4.95	20.79	5.36	---	---	2.81
24	1.76	2.97	5.32	8.95	11.28	9.70	5.63	20.10	5.16	---	---	2.55
25	1.79	2.67	4.89	10.03	10.63	9.34	6.28	19.40	5.00	---	---	2.29
26	1.87	2.46	4.47	10.52	10.00	8.91	6.65	18.71	4.86	---	---	2.06
27	1.97	2.28	4.09	10.96	9.63	8.46	6.73	18.03	4.75	---	---	1.87
28	2.03	2.17	3.76	11.57	9.32	8.02	6.64	17.37	4.66	---	---	1.79
29	2.05	2.12	3.53	12.18	---	7.60	6.37	16.72	4.53	---	1.14	1.78
30	2.02	2.50	3.37	12.72	---	7.20	6.00	16.09	4.37	---	1.20	1.85
31	1.95	---	3.19	13.20	---	6.85	---	15.43	---	---	1.20	---
MEAN	1.91	2.07	4.26	5.97	13.48	9.43	5.30	16.59	9.02	---	---	2.17
MAX	2.20	3.93	6.82	13.20	15.13	10.78	6.73	23.52	14.78	4.15	1.20	3.71
MIN	1.51	1.47	2.08	2.65	9.32	6.85	4.12	3.60	4.37	---	---	1.10

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 December 1966 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. Maximum gage height since 1974, 24.55 ft (7.483 m) May 12, 1975; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 21.92 ft (6.681 m) May 16; minimum, -0.58 ft (0.177 m) July 29, 30.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.39	1.32	1.63	11.49	7.45	4.82	3.94	13.09	2.53	-.26	-.12
2	.48	.44	1.03	1.51	11.83	7.25	4.54	3.47	12.55	2.27	-.28	-.20
3	.61	.37	.87	1.39	12.06	7.18	4.28	3.07	11.99	2.01	-.34	-.26
4	.67	.25	.72	1.31	12.18	7.21	4.01	2.73	11.49	1.82	-.39	-.29
5	.66	.21	.65	1.23	12.30	7.41	3.75	2.37	11.02	1.51	-.40	-.25
6	.59	.15	.65	1.21	12.40	7.57	3.48	2.08	10.65	1.23	-.39	-.17
7	.53	.11	.76	1.34	12.52	7.77	3.23	7.04	10.53	1.09	-.37	-.10
8	.45	.07	.98	1.36	12.63	7.90	3.00	11.32	10.52	1.05	-.41	-.05
9	.42	.08	1.27	1.83	12.73	7.90	2.77	14.29	10.36	.95	-.46	-.01
10	.33	.10	1.52	1.74	12.81	7.88	2.66	17.95	10.09	.78	-.45	.04
11	.19	.18	1.68	1.61	12.87	7.89	3.53	19.16	9.69	.56	-.37	.12
12	.09	.23	1.85	1.65	12.89	7.91	3.82	19.91	9.20	.36	-.31	.27
13	.06	.26	2.59	1.90	13.08	7.98	3.80	20.59	8.63	.22	-.31	.57
14	.07	.21	4.26	1.97	13.01	8.33	3.66	21.24	8.05	.10	-.27	1.17
15	.16	.14	4.54	1.89	12.84	8.64	3.47	21.77	7.54	.01	-.19	1.58
16	.31	.07	4.70	1.84	12.63	8.81	3.25	21.89	7.03	-.04	-.08	1.89
17	.46	.03	4.92	3.24	12.35	8.92	3.07	21.82	6.50	-.14	-.06	2.05
18	.55	.05	5.07	3.74	12.06	9.01	2.96	21.63	5.92	-.23	-.10	2.11
19	.60	.30	5.12	4.10	11.90	9.03	2.83	21.29	5.36	-.31	-.15	2.10
20	.60	.66	5.05	4.84	11.63	8.94	2.65	20.85	4.83	-.37	-.19	1.99
21	.53	2.09	4.89	5.48	11.20	8.78	2.49	20.34	4.35	-.39	-.22	1.82
22	.45	2.53	4.64	5.92	10.72	8.51	2.56	19.74	3.95	-.40	-.24	1.60
23	.36	1.97	4.26	6.18	10.17	8.13	3.11	19.05	3.63	-.43	-.28	1.36
24	.30	1.52	3.86	6.71	9.58	7.84	3.77	18.37	3.44	-.45	-.35	1.10
25	.29	1.21	3.46	8.22	8.96	7.53	4.43	17.69	3.29	-.52	-.41	.87
26	.34	1.01	3.04	8.77	8.35	7.12	4.87	17.03	3.15	-.55	-.43	.66
27	.43	.86	2.69	9.10	8.07	6.71	5.00	16.35	3.05	-.54	-.45	.49
28	.49	.73	2.37	9.58	7.77	6.28	4.95	15.69	2.96	-.54	-.50	.40
29	.52	.72	2.11	10.12	---	5.85	4.69	15.04	2.84	-.55	-.17	.39
30	.50	1.16	1.95	10.63	---	5.46	4.34	14.40	2.72	-.54	-.03	.41
31	.45	---	1.79	11.08	---	5.12	---	13.75	---	-.37	-.06	---
MEAN	.41	.60	2.73	4.29	11.54	7.69	3.66	15.03	7.28	.33	-.29	.72
MAX	.67	2.53	5.12	11.08	13.08	9.03	5.00	21.89	13.09	2.53	-.03	2.11
MIN	.06	.03	.65	1.21	7.77	5.12	2.49	2.08	2.72	-.55	-.50	-.29

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) National Geodetic Vertical Datum of 1929. 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 3.6 mi (5.8 km) downstream from base gage at datum 76.58 ft (23.342 m) National Geodetic Vertical Datum of 1929. 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--23 years, 283 ft³/s (8.015 m³/s), 205,000 acre-ft/yr (253 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, 14,400 ft³/s (408 m³/s) May 9; maximum gage height, 26.17 ft (7.977 m) May 9; minimum daily discharge, 0.40 ft³/s (0.011 m³/s) Oct. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.0	10	7.9	389	23	47	35	19	9.0	36	60
2	2.3	2.0	9.2	8.0	240	126	32	18	18	8.1	29	102
3	2.0	3.0	8.2	7.9	127	278	22	13	17	7.1	19	129
4	1.7	4.5	19	7.9	86	328	15	14	19	7.1	14	132
5	1.5	4.0	26	7.8	65	340	11	12	59	6.2	12	112
6	1.3	3.0	19	8.3	47	308	7.4	11	91	5.1	10	78
7	1.1	2.5	12	9.4	36	253	6.6	986	95	5.4	9.2	45
8	1.4	2.0	8.9	12	28	236	5.6	7420	81	6.6	9.1	27
9	1.5	2.5	8.2	16	22	269	5.5	13500	59	6.6	9.5	23
10	1.2	2.0	7.2	16	18	295	11	7700	39	6.6	10	22
11	.89	2.1	8.7	20	15	278	155	3700	27	7.6	13	19
12	.80	4.2	9.3	41	14	235	289	2700	24	8.1	19	13
13	.70	4.8	13	44	61	175	298	5060	36	7.5	22	8.4
14	.70	4.2	23	32	166	234	233	5600	44	7.4	23	7.5
15	.65	3.5	25	26	226	446	147	3210	33	8.8	32	10
16	.65	3.3	36	40	213	531	78	2250	21	11	40	9.0
17	.60	3.4	60	213	161	489	43	1820	14	9.9	40	6.5
18	.60	3.5	62	351	107	402	25	1370	12	9.5	36	5.7
19	.55	3.5	36	391	75	313	14	1000	11	9.0	30	17
20	.55	4.0	18	385	66	208	7.4	696	9.5	7.9	26	25
21	.50	8.5	16	342	60	113	5.4	469	8.1	6.9	23	23
22	.50	9.0	14	298	50	68	4.7	249	7.3	6.1	19	17
23	.45	6.5	11	210	38	53	8.1	157	12	5.7	20	9.8
24	.45	6.0	8.7	189	29	69	22	128	32	7.6	21	5.2
25	.60	6.0	7.2	384	23	153	108	17	29	8.1	20	3.8
26	.50	5.5	6.4	572	17	228	149	214	18	6.7	18	3.1
27	.50	5.5	5.7	691	14	238	116	204	13	5.6	16	2.7
28	.45	6.0	5.2	718	16	206	106	123	11	5.6	15	2.3
29	.45	6.5	6.0	659	---	157	88	59	10	6.0	28	1.9
30	.40	9.5	7.1	557	---	109	63	37	12	6.2	34	1.6
31	.40	---	7.2	483	---	70	---	26	---	26	36	---
TOTAL	27.69	132.0	513.2	6747.2	2409	7231	2122.7	58798	880.9	245.0	688.8	921.5
MEAN	.89	4.40	16.6	218	86.0	233	70.8	1897	29.4	7.90	22.2	30.7
MAX	2.3	9.5	62	718	389	531	298	13500	95	26	40	132
MIN	.40	1.0	5.2	7.8	14	23	4.7	11	7.3	5.1	9.1	1.6
AC-FT	55	262	1020	13380	4780	14340	4210	116600	1750	486	1370	1830

CAL YR 1977 TOTAL 30742.80 MEAN 84.2 MAX 1130 MIN .40 AC-FT 60980
WTR YR 1978 TOTAL 80716.99 MEAN 221 MAX 13500 MIN .40 AC-FT 160100

RED RIVER BASIN

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

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.56		13.05	12.93	16.71	12.97	13.02	12.78	12.13	11.77	12.58	13.11
2	11.65		12.99	12.94	15.45	14.33	12.71	12.37	12.10	11.75	12.44	13.72
3	11.60		12.95	12.94	14.38	15.81	12.48	12.23	12.07	11.71	12.19	14.02
4	11.54		13.27	12.93	13.96	16.25	12.29	12.25	12.12	11.71	12.04	14.05
5	11.49		13.43	12.93	13.69	16.35	12.14	12.19	13.08	11.66	11.98	13.85
6	11.44		13.30	12.95	13.45	16.07	12.02	12.15	13.60	11.60	11.93	13.41
7	11.40		13.09	13.00	13.25	15.52	11.98	17.56	13.66	11.62	11.89	12.86
8	11.47		12.98	13.09	13.08	15.34	11.92	22.97	13.46	11.70	11.88	12.50
9	11.49		12.95	13.22	12.96	15.68	11.92	26.01	13.07	11.71	11.91	12.40
10	11.42		12.90	13.23	12.87	15.95	12.13	25.26	12.64	11.71	11.93	12.37
11	11.34		12.97	13.30	12.78	15.78	14.40	23.86	12.33	11.75	12.02	12.30
12	---		13.00	13.66	12.73	15.33	15.88	22.96	12.26	11.78	12.21	12.15
13	---		13.11	13.70	13.59	14.66	15.97	23.82	12.58	11.75	12.29	11.97
14	---		13.38	13.52	14.75	15.29	15.30	24.58	12.76	11.75	12.32	11.93
15	---		13.42	13.43	15.33	17.08	14.34	23.78	12.51	11.80	12.54	12.06
16	---		13.58	13.62	15.21	17.54	13.52	22.89	12.19	11.88	12.71	12.00
17	---		13.91	15.29	14.71	17.34	12.95	22.08	11.96	11.85	12.72	11.89
18	---		13.94	16.43	14.18	16.80	12.55	21.18	11.89	11.84	12.64	11.85
19	---		13.59	16.74	13.83	16.10	12.24	20.28	11.84	11.83	12.52	12.26
20	---		13.27	16.69	13.72	15.02	12.01	19.41	11.79	11.79	12.41	12.51
21	---		13.21	16.36	13.63	13.95	11.91	18.58	11.74	11.75	12.34	12.47
22	---		13.15	16.00	13.48	13.37	11.86	17.75	11.71	11.71	12.26	12.30
23	---		13.05	15.27	13.29	13.13	12.02	16.95	11.86	11.69	12.26	12.07
24	---		12.97	15.09	13.11	13.39	12.46	16.17	12.47	11.78	12.29	11.86
25	---		12.91	16.66	12.98	14.42	13.87	15.51	12.33	11.81	12.26	11.74
26	---		12.87	17.66	12.84	15.24	14.37	15.15	12.05	11.76	12.24	11.67
27	---		12.83	18.00	12.75	15.36	14.00	14.66	11.90	11.69	12.17	11.62
28	---		12.79	18.07	12.79	15.00	13.88	13.76	11.83	11.69	12.16	11.57
29	---		12.84	17.92	---	14.46	13.66	12.92	11.81	11.73	12.50	11.52
30	---		12.90	17.62	---	13.91	13.29	12.51	11.89	11.73	12.62	11.48
31	---		12.91	17.31	---	13.40	---	12.26	---	12.34	12.66	---
MEAN	---		13.15	14.92	13.77	15.19	13.10	17.96	12.32	11.76	12.29	12.38
MAX	---		13.94	18.07	16.71	17.54	15.97	26.01	13.66	12.34	12.72	14.05
MIN	---		12.79	12.93	12.73	12.97	11.86	12.15	11.71	11.60	11.88	11.48

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Some diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, not determined, occurred during period of no gage-height record in May 1978; minimum, -0.43 ft (-0.131 m) July 9, 1977, but may have been lower during period of no gage-height record in October 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, not determined, occurred during period of no gage-height record in May; minimum, not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.35	---	1.36	.92	8.74	3.54	1.96	1.53	9.19	.16	.58	.81
2	-.32	---	1.21	.86	8.46	3.41	1.56	1.09	8.62	.15	.99	1.50
3	-.28	---	1.08	.86	8.11	4.18	1.32	.88	8.02	.15	.88	1.98
4	-.27	---	.96	.83	7.91	4.91	1.16	.80	7.44	.14	.71	2.16
5	-.30	---	1.59	.80	7.82	5.25	1.04	.74	6.93	.08	.52	2.10
6	-.32	---	1.70	.80	7.79	5.36	.93	.66	6.58	.07	.39	1.87
7	-.34	---	1.48	.92	7.79	5.23	.82	8.63	6.37	.07	.29	1.50
8	-.29	---	1.24	1.15	7.84	5.05	.71	17.08	6.22	.53	.25	1.08
9	-.25	---	1.17	1.39	7.89	5.05	.51	---	6.05	.22	.28	.79
10	-.31	---	.98	1.56	7.95	5.25	.42	---	5.81	.11	.23	.63
11	-.33	-.13	1.17	1.51	8.00	5.31	2.29	22.79	5.49	.11	.26	.52
12	---	.30	1.19	1.79	8.07	5.13	3.66	21.75	5.10	.13	.83	.49
13	---	.44	1.68	2.01	8.58	4.85	4.15	22.13	4.66	.15	.84	.36
14	---	.26	2.16	1.92	8.89	5.03	3.87	23.37	4.22	.16	.74	.26
15	---	.16	2.07	1.73	8.95	5.90	3.07	22.87	3.77	.14	.63	.16
16	---	.12	2.07	1.97	8.86	6.97	2.23	21.97	3.29	.18	.82	.19
17	---	.13	2.36	3.15	8.62	7.42	1.65	21.10	2.80	.29	1.00	.19
18	---	.16	2.44	4.16	8.29	7.22	1.26	20.18	2.31	.30	1.02	.12
19	---	.19	2.30	4.81	7.93	6.71	.98	19.26	1.81	.27	.96	.03
20	---	.31	1.93	5.03	7.63	6.10	.68	18.37	1.33	.26	.84	.27
21	---	1.13	1.63	4.99	7.32	5.42	.47	17.49	.87	.22	.73	.54
22	---	1.20	1.53	4.79	6.93	4.85	.30	16.66	.48	.18	.63	.50
23	---	.81	1.40	4.49	6.46	4.39	.45	15.79	.26	.13	.52	.39
24	---	.68	1.26	5.00	5.91	4.14	1.35	14.94	.29	.09	.40	.26
25	---	.62	1.15	6.57	5.32	4.11	2.24	14.12	.84	.11	.36	.11
26	---	.58	1.01	7.67	4.71	4.34	2.81	13.37	.71	.27	.34	-.01
27	---	.59	.91	8.31	4.17	4.47	2.65	12.66	.52	.32	.30	-.12
28	---	.63	.81	8.77	3.84	4.22	2.40	11.94	.37	.26	.26	-.18
29	---	.83	.82	9.00	---	3.69	2.21	11.22	.26	.19	.55	-.22
30	---	1.33	.93	9.00	---	3.07	1.94	10.53	.19	.10	.59	-.25
31	---	---	.96	8.87	---	2.47	---	9.86	---	.01	.68	---
MEAN	---	---	1.44	3.73	7.46	4.94	1.70	---	3.69	.18	.59	.60
MAX	---	1.33	2.44	9.00	8.95	7.42	4.15	---	9.19	.53	1.02	2.16
MIN	---	---	.81	.80	3.84	2.47	.30	.66	.19	.01	.23	-.25

RED RIVER BASIN

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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) National Geodetic Vertical Datum of 1929 (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, 0.50 ft (0.152 m) July 31 and Aug. 1, 1978.
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, 8,840 ft³/s (250 m³/s) May 15, gage height, 24.73 ft (7.538 m); minimum gage height, 0.50 ft (0.152 m) July 31 and Aug. 1.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	1.09	2.08	1.95	11.51	---	5.15	4.40	12.84	2.57	.50	.99
2	1.06	1.20	1.92	1.81	11.59	---	4.74	3.99	12.24	2.40	.71	1.05
3	1.06	1.15	1.69	1.70	11.49	---	4.39	3.63	11.62	2.22	.77	1.30
4	1.11	1.09	1.48	1.61	11.31	---	4.11	3.30	11.07	2.44	.73	1.48
5	1.17	1.06	1.33	1.55	11.20	---	3.86	2.96	10.50	2.01	.67	1.51
6	1.19	1.00	1.45	1.50	11.15	7.85	3.62	2.65	10.07	2.24	.63	1.43
7	1.17	.96	1.44	1.46	11.15	7.97	3.38	8.05	9.83	1.71	.60	1.30
8	1.19	.93	1.35	1.53	11.18	8.04	3.16	15.49	9.66	1.45	.57	1.14
9	1.17	.93	1.44	1.94	11.23	8.02	2.96	20.18	9.50	1.40	.56	1.03
10	1.11	.90	1.50	2.07	11.28	8.04	2.77	23.61	9.31	1.33	.55	1.04
11	1.07	.89	1.59	2.06	11.33	8.09	3.82	24.09	9.03	1.21	.55	1.01
12	1.03	.90	1.68	2.01	11.38	8.07	4.87	23.80	8.69	1.21	.72	1.02
13	.96	1.00	1.79	2.41	11.98	7.94	5.25	23.69	8.26	1.02	.83	1.03
14	.92	1.03	3.65	2.64	12.32	8.22	5.27	24.41	7.85	.94	.80	1.12
15	.91	1.01	4.28	2.58	12.29	8.49	4.91	24.73	7.40	.86	.81	1.32
16	.92	.98	4.29	2.43	12.18	9.04	4.33	24.43	6.94	.82	.82	1.57
17	.96	.94	4.44	4.06	11.99	9.53	3.78	23.81	6.47	.77	.86	1.82
18	1.02	.89	4.71	5.02	11.74	9.70	3.37	23.16	5.99	.74	.89	2.00
19	1.09	.87	4.88	5.41	11.41	9.56	3.08	22.47	5.50	.68	.91	2.07
20	1.13	.91	4.83	5.80	11.11	9.27	2.91	21.75	5.00	.63	.90	2.09
21	1.14	1.19	4.65	6.23	10.83	8.86	2.70	21.02	4.52	.60	.84	2.09
22	1.14	2.34	4.45	6.54	10.48	8.38	2.53	20.32	4.09	.58	.79	2.03
23	1.11	2.58	4.23	6.71	10.05	7.95	2.59	19.52	3.75	.55	.77	1.90
24	1.07	2.27	3.95	7.15	9.55	---	2.91	18.70	3.40	.55	.80	1.73
25	1.04	1.91	3.63	9.22	8.99	---	4.46	17.89	3.26	.54	.78	1.53
26	1.03	1.61	3.28	10.19	8.40	---	4.99	17.02	3.18	.54	.77	1.37
27	1.01	1.43	2.95	10.50	7.84	---	5.12	16.30	3.03	.57	.77	1.26
28	1.03	1.32	2.64	10.71	---	7.09	5.07	15.61	2.90	.54	.77	1.14
29	1.07	1.27	2.39	10.95	---	6.69	4.94	14.89	2.77	.54	.94	1.06
30	1.09	1.74	2.23	11.21	---	6.17	4.71	14.19	2.66	.53	.93	1.02
31	1.10	---	2.07	11.38	---	5.65	---	13.52	---	.52	.97	---
MEAN	1.07	1.25	2.85	4.91	---	---	3.99	16.57	7.04	1.12	.76	1.42
MAX	1.19	2.58	4.88	11.38	12.32	9.70	5.27	24.73	12.84	2.57	.97	2.09
MIN	.91	.87	1.33	1.46	---	5.65	2.53	2.65	2.66	.52	.50	.99

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.--135 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) National Geodetic Vertical Datum of 1929 (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 two 8- by 8-ft (2.4- by 2.4-m) sluice gates in upstream face of drop inlet. Invert elevation of sluice gates at 151.25 ft (46.101 m) National Geodetic Vertical Datum of 1929. 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, 10.22 ft (3.115 m) May 8; minimum, 7.64 ft (2.329 m) Nov. 19, 28.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.07	7.78	7.88	7.95	8.56	8.90	9.23	9.28	9.29	9.07	8.80	8.62
2	8.08	7.80	7.87	7.93	8.59	8.90	9.21	9.25	9.40	9.07	8.81	8.61
3	8.04	7.78	7.88	7.92	8.60	8.94	9.21	9.29	9.39	9.04	8.80	8.61
4	8.00	7.78	7.88	7.91	8.61	8.94	9.21	9.30	9.38	9.02	8.79	8.66
5	7.99	7.78	7.89	7.91	8.62	8.94	9.21	9.30	9.36	9.01	8.78	8.65
6	7.98	7.77	7.89	7.93	8.62	8.94	9.21	9.27	9.32	9.00	8.75	8.63
7	7.96	7.77	7.84	7.93	8.61	9.00	9.21	9.60	9.33	8.99	8.73	8.61
8	7.98	7.75	7.81	8.00	8.62	9.05	9.20	10.04	9.34	8.96	8.70	8.60
9	7.96	7.85	7.85	7.96	8.62	9.06	9.20	10.20	9.31	8.94	8.69	8.60
10	7.94	7.77	8.82	7.94	8.63	9.08	9.20	10.10	9.29	8.92	8.69	8.59
11	7.9	7.73	7.81	7.92	8.62	9.08	9.35	9.99	9.27	8.90	8.68	8.58
12	7.9	7.72	7.80	7.99	8.62	9.09	9.34	10.03	9.26	8.89	8.65	8.61
13	7.8	7.59	7.84	8.00	8.76	9.09	9.34	10.09	9.24	8.86	8.64	8.61
14	7.85	7.7	7.93	8.01	8.73	9.13	9.30	10.00	9.21	8.84	8.65	8.60
15	7.85	7.7	7.93	7.99	8.73	9.14	9.30	9.90	9.20	8.80	8.62	8.63
16	7.82	7.79	7.92	8.01	8.74	9.15	9.30	9.82	9.19	8.80	8.61	8.62
17	7.80	7.68	7.96	8.13	8.73	9.15	9.29	9.75	9.16	8.79	8.60	8.61
18	7.80	7.67	7.96	8.11	8.79	9.13	9.39	9.70	9.14	8.77	8.58	8.60
19	7.80	7.65	7.96	8.14	8.80	9.14	9.40	9.66	9.14	8.74	8.55	8.60
20	7.78	7.6	7.97	8.16	8.81	9.14	9.31	9.61	9.29	8.72	8.52	8.60
21	7.78	7.70	7.98	8.15	8.84	9.17	9.30	9.58	9.28	8.70	8.51	8.60
22	7.78	7.70	7.91	8.15	8.81	9.16	9.28	9.60	9.24	8.66	8.50	8.59
23	7.76	7.70	7.90	8.16	8.84	9.17	9.29	9.58	9.23	8.67	8.48	8.57
24	7.81	7.70	7.92	8.29	8.82	9.26	9.30	9.52	9.21	8.65	8.46	8.53
25	7.82	7.70	7.92	8.33	8.83	9.28	9.32	9.50	9.20	8.66	8.45	8.51
26	7.82	7.67	7.90	8.45	8.84	9.28	9.30	9.46	9.18	8.64	8.43	8.50
27	7.81	7.67	7.90	8.46	8.84	9.24	9.28	9.42	9.16	8.85	8.40	8.49
28	7.80	7.64	7.88	8.47	8.89	9.24	9.27	9.40	9.13	8.87	8.37	8.48
29	7.80	7.76	7.91	8.47	---	9.24	9.26	9.37	9.11	8.86	8.56	8.47
30	7.80	7.82	7.94	8.49	---	9.24	9.23	9.33	9.10	8.84	8.67	8.46
31	7.79	---	7.93	8.51	---	9.24	---	9.30	---	8.82	8.64	---
MEAN	7.88	7.73	7.90	8.12	8.72	9.11	9.27	9.62	9.25	8.85	8.62	8.58
MAX	8.08	7.85	7.98	8.51	8.89	9.28	9.40	10.20	9.40	9.07	8.81	8.66
MIN	7.76	7.64	7.80	7.91	8.56	8.90	9.20	9.25	9.10	8.64	8.37	8.46

RED RIVER BASIN

07366200 LITTLE CORNEY BAYOU NEAR LILLIE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.79	1.21	3.50	2.48	3.34	3.55	2.60	2.38	---	---	2.71	4.67
2	1.67	1.33	3.64	2.37	3.40	4.22	2.48	2.17	5.47	---	2.64	4.18
3	1.55	1.29	3.45	2.23	3.49	4.61	2.37	2.24	6.70	---	2.45	3.43
4	1.47	1.31	3.00	2.10	3.49	4.66	2.30	2.90	6.40	---	2.33	3.61
5	1.40	1.27	2.59	2.02	3.29	4.47	2.23	3.16	6.17	---	---	3.50
6	1.35	1.33	2.30	2.01	3.10	4.24	2.16	3.50	5.97	---	---	3.04
7	1.27	1.38	2.17	2.11	2.94	3.99	2.10	5.30	5.17	---	---	2.74
8	1.25	1.39	2.02	2.54	2.79	4.33	2.04	7.49	5.10	2.28	---	2.51
9	1.31	1.54	1.96	2.69	2.69	4.60	1.97	9.42	5.10	2.27	---	2.35
10	1.47	1.48	2.21	2.73	2.64	4.69	2.02	7.75	4.78	2.27	---	2.23
11	1.39	1.47	2.11	2.66	2.66	4.58	3.62	6.98	4.28	2.11	---	2.20
12	1.33	1.58	2.00	2.58	2.73	4.08	4.53	6.95	3.87	2.11	---	2.40
13	1.29	1.47	2.14	2.80	3.59	3.56	4.22	7.01	3.67	2.08	---	3.09
14	1.26	1.41	3.10	3.05	4.57	3.38	3.76	7.72	3.47	2.00	---	3.20
15	1.35	1.41	3.48	3.08	4.72	3.45	3.06	7.35	---	2.07	1.74	3.60
16	1.27	1.39	3.34	3.14	4.63	3.37	2.53	6.84	---	2.75	1.80	3.58
17	1.18	1.40	3.02	3.83	4.35	3.26	2.29	6.56	---	2.78	1.90	3.31
18	1.16	1.42	2.81	4.31	3.84	3.07	3.37	6.26	---	2.50	1.89	2.99
19	1.26	1.34	2.59	4.41	3.78	2.86	4.35	5.29	---	2.39	1.82	2.74
20	1.17	1.33	2.39	4.29	3.66	2.69	4.33	4.03	---	2.27	1.78	2.57
21	1.17	1.42	2.22	3.99	3.51	2.61	3.85	3.34	---	2.19	1.74	2.43
22	1.24	1.69	2.09	3.56	3.28	2.64	3.01	3.66	---	2.10	1.71	2.32
23	1.19	1.86	2.00	3.30	3.06	2.70	2.47	5.07	---	2.37	1.67	2.20
24	1.19	1.91	1.96	3.66	2.88	3.01	3.01	5.36	3.01	2.50	1.63	2.15
25	1.28	1.82	1.95	4.68	2.75	3.71	4.75	4.42	3.02	2.52	1.60	2.12
26	1.35	1.74	1.93	5.28	2.67	3.98	4.80	3.19	3.07	2.51	1.59	2.13
27	1.32	1.65	1.89	5.33	2.59	4.03	4.55	2.64	2.89	3.40	1.59	2.27
28	1.29	1.61	1.86	5.09	2.75	3.79	4.32	2.35	2.66	4.82	1.58	2.22
29	1.27	1.71	1.90	4.83	---	3.33	3.59	2.16	2.60	4.41	2.60	2.17
30	1.27	2.78	2.20	4.27	---	2.96	2.79	2.55	2.60	3.61	4.42	2.17
31	1.26	---	2.49	3.63	---	2.74	---	---	---	3.00	4.66	---
MEAN	1.32	1.53	2.46	3.39	3.33	3.65	3.18	---	---	---	---	2.80
MAX	1.79	2.78	3.64	5.33	4.72	4.69	4.80	9.42	6.70	4.82	4.66	4.67
MIN	1.16	1.21	1.86	2.01	2.59	2.61	1.97	2.16	2.60	2.00	1.58	2.12

07366300 BAYOU D'ARBONNE LAKE AT FARMERVILLE, LA

LOCATION.--Lat 32°45'25", long 92°24'50", in NW¼NW¼ sec.6, T.20 N., R.1 E., Union Parish, 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) National Geodetic Vertical Datum of 1929 (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 four 5- by 5-ft (1.52- by 1.52-m) sluice gates at outlet. Invert elevation of sluice gates at 17.6 ft (5.364 m), gage datum. Dam completed and storage began in 1964. Reservoir is used for flood control, conservation, and recreation. Gates opened July 17 and remained open the remainder of the 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 record of Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 42.45 ft (12.939 m) May 11; minimum, 29.37 ft (8.952 m) Sept. 30.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.47	39.27	39.61	39.85	40.23	40.05	40.08	40.18	40.09	39.74	35.40	30.18
2	39.48	39.38	39.64	39.83	40.22	40.07	40.06	40.14	40.10	39.75	35.02	30.20
3	39.45	39.38	39.66	39.83	40.21	40.07	40.05	40.18	40.10	39.75	34.61	30.22
4	39.43	39.37	39.67	39.83	40.18	40.06	40.04	40.16	40.12	39.83	34.22	30.20
5	39.42	39.38	39.69	39.84	40.16	40.07	40.02	40.13	40.14	39.84	33.79	30.20
6	39.40	39.39	39.67	39.84	40.11	40.08	40.00	40.12	40.16	39.84	33.37	30.19
7	39.39	39.39	39.65	39.84	40.09	40.12	39.99	41.16	40.16	39.84	32.93	30.21
8	39.44	39.38	39.65	39.87	40.07	40.14	39.97	42.14	40.18	39.85	32.47	30.22
9	39.44	39.46	39.68	39.82	40.06	40.14	39.96	42.36	40.14	39.85	32.02	30.22
10	39.43	39.43	39.67	39.83	40.04	40.15	39.96	42.32	40.11	39.83	31.54	30.22
11	39.42	39.41	39.67	39.83	40.03	40.16	40.06	42.38	40.09	39.81	31.04	30.22
12	39.40	39.40	39.67	39.88	40.02	40.17	40.09	42.37	40.07	39.80	30.86	30.23
13	39.38	39.39	39.72	39.88	40.18	40.17	40.10	42.14	40.04	39.79	30.61	30.24
14	39.36	39.39	39.83	39.88	40.19	40.18	40.10	41.84	40.00	39.77	30.35	30.24
15	39.36	39.38	39.87	39.86	40.22	40.16	40.10	41.61	39.97	39.82	30.24	30.25
16	39.34	39.39	39.88	39.91	40.22	40.13	40.08	41.50	39.94	39.82	---	30.48
17	39.33	39.38	39.90	39.99	40.20	40.10	40.07	41.42	39.91	39.80	---	30.36
18	39.32	39.37	39.89	39.99	40.21	40.08	40.06	41.30	39.89	39.57	---	30.32
19	39.31	39.37	39.89	40.04	40.20	40.06	40.02	41.16	39.88	39.32	---	30.18
20	39.30	39.37	39.87	40.03	40.19	40.05	39.99	41.00	39.88	39.07	---	29.79
21	39.29	39.45	39.83	40.02	40.14	40.05	40.00	40.84	---	38.61	---	29.65
22	39.29	39.46	39.80	40.02	40.10	40.04	40.01	40.69	---	38.54	29.80	29.62
23	39.28	39.47	39.80	40.01	40.10	40.03	40.04	40.56	---	38.30	29.77	29.58
24	39.30	39.48	39.81	40.13	40.08	40.10	40.13	40.46	---	38.09	29.75	29.56
25	39.31	39.48	39.80	40.26	40.07	40.11	40.23	40.41	---	37.76	29.73	29.53
26	39.30	39.47	39.79	40.35	40.05	40.10	40.24	40.39	---	37.41	29.70	29.50
27	39.30	39.46	39.79	40.37	40.04	40.10	40.23	40.36	---	37.15	29.64	29.47
28	39.30	39.46	39.77	40.34	40.07	40.10	40.23	40.30	---	36.84	29.65	29.44
29	39.29	39.48	39.81	40.30	---	40.10	40.21	40.24	---	36.49	30.09	29.41
30	39.29	39.57	39.84	40.25	---	40.10	40.19	40.17	---	36.14	30.14	29.38
31	39.28	---	39.84	40.23	---	40.09	---	40.13	---	35.78	30.17	---
MEAN	39.36	39.42	39.76	40.00	40.13	40.10	40.08	40.97	---	38.90	---	29.98
MAX	39.48	39.57	39.90	40.37	40.23	40.18	40.24	42.38	40.18	39.85	35.40	30.48
MIN	39.28	39.27	39.61	39.82	40.02	40.03	39.96	40.12	---	35.78	29.64	29.38

NOTE.--Gage heights for Aug. 22 to Sept. 30 computed from once-daily nonrecording gage readings.

07366472 CHAUVIN BAYOU NEAR MONROE, LA

LOCATION.--Lat 32°33'34", long 92°04'31", in Lot 42, T.18 N., R.4 E., Ouachita Parish, Hydrologic Unit 08040207, on downstream end of culvert on U.S. Highway 165, 2.5 mi (4.0 km) north of Sherrouse School at Monroe, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--November 1977 to September 1978 (gage heights only).

GAGE.--Water-stage recorder. Altitude of gage is 65 ft (20 m), from topographic map.

EXTREMES FOR CURRENT YEAR.--Maximum gage height during period November 1977 to September 1978, 35.13 ft (10.708 m) May 8; minimum, not determined.

GAGE HEIGHT, IN FEET, NOVEMBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			32.86	32.29	33.24	32.71	33.02	32.88	33.55	32.93		
2			32.51	32.31	33.28	32.72	33.01	32.87	33.63	32.87		
3			32.20	32.33	33.12	32.78	32.99	33.28	33.55	32.82		
4			32.03	32.34	32.89	32.79	32.98	33.36	33.49	32.79		
5			31.96	32.35	32.66	32.79	32.97	33.33	33.41	32.79		
6			31.90	32.36	32.39	32.75	32.96	33.26	33.33	32.77		
7			31.85	32.38	32.22	32.83	32.96	34.80	33.31	32.74		
8			31.87	32.45	32.17	32.91	32.95	34.99	33.29	32.71		
9			31.90	32.69	32.22	32.90	32.95	35.04	33.24	32.69		
10			31.93	32.61	32.37	32.89	32.94	34.84	33.19	32.67		
11			31.96	32.58	32.47	32.89	33.04	34.64	33.14	32.65		
12			32.03	32.80	32.54	32.90	33.05	34.68	33.10	32.63		
13			32.05	32.84	33.59	32.90	33.04	34.81	33.06	32.61		
14			33.26	32.60	33.56	32.95	33.04	34.73	33.02	32.58		
15			33.00	32.41	33.40	32.94	33.03	34.65	32.97	32.57		33.37
16			32.72	32.29	33.18	32.92	33.01	34.57	32.91	32.57		32.36
17		32.49	32.57	33.52	32.93	32.92	33.00	34.52	32.86	32.54		31.93
18		32.49	32.35	33.47	32.80	32.91	32.99	34.48	32.82	32.49		31.65
19		31.96	32.13	33.37	32.63	32.91	32.96	34.42	32.81	32.46		
20		31.82	32.01	33.17	32.46	32.90	32.95	34.37	32.84	32.42		
21		32.01	32.03	32.94	32.43	32.90	32.93	34.31	32.74	32.39		
22		32.28	32.11	32.76	32.51	32.90	32.91	34.28	32.70	31.82		
23		31.96	32.14	32.60	32.54	32.90	32.90	34.19	32.67	31.63		
24		31.84	32.16	33.78	32.58	33.05	33.09	34.10	32.65	31.60		
25		31.85	32.20	34.08	32.61	33.04	33.38	33.99	32.70	31.62		
26		31.91	32.22	34.07	32.63	33.04	33.22	33.91	32.72	31.56		
27		31.97	32.24	33.91	32.64	33.04	33.06	33.84	32.71			
28		32.10	32.26	33.73	32.68	33.04	32.90	33.81	32.70			
29		32.17	32.32	33.52	---	33.04	32.85	33.74	32.72			30.51
30		33.10	32.40	33.30	---	33.03	32.86	33.66	32.87			30.50
31		---	32.33	33.07	---	33.03	---	33.63	---			---
MEAN		---	32.24	32.93	32.74	32.91	33.00	34.13	33.02	---		---
MAX		---	33.26	34.08	33.59	33.05	33.38	35.04	33.63	32.93		33.37
MIN		---	31.85	32.29	32.17	32.71	32.85	32.87	32.65	---		---

NOTE.--Gage height was below lowest recordable stage of 31.55 ft July 27 to Sept. 14, Sept. 19-28. Lowest recordable stage after Sept. 28 is 30.20 ft.

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, gate-position recorder, broad-crested wier, and four radial gates. Datum of gage is 23.91 ft (7.288 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Auxiliary water-stage recorder (sta 07367640) 4.2 mi (6.8 km) downstream at same datum.

REMARKS.--Records good. Low and medium discharge determined from flow over broad-crested wier and through four radial gates, computed from relation between discharge, head and gate openings. High discharge 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), and a series of navigation locks and dams.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,300 ft³/s (1,200 m³/s), May 18, 1978; maximum tailwater gage height, 31.60 ft (9.632 m) May 20, 1978; minimum daily, 1,010 ft³/s (28.6 m³/s) Aug. 24, 26, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 42,300 ft³/s (1,200 m³/s), May 18; maximum tailwater gage height, 31.60 ft (9.632 m) May 20; minimum daily, 1,010 ft³/s (28.6 m³/s) Aug. 24, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5080	1420	6390	3090	23800	12300	18900	13000	32000	4070	4340	2610
2	5570	2640	7610	3020	24300	11400	18600	12300	31300	3510	5050	1480
3	4930	1260	6790	3940	24500	11000	18300	11800	30000	3720	5150	1220
4	3340	1680	7780	3870	23100	11600	17400	11700	27400	2730	4420	1290
5	5410	4040	9030	2110	23500	11700	15800	12200	26100	2190	3280	1480
6	4470	4220	10500	2550	23900	12500	13100	12600	23300	2540	3450	1570
7	1090	4850	10000	2390	24200	13700	11800	21400	20000	2310	3320	1500
8	1220	2740	7810	3820	24100	14300	10700	27500	19000	2350	3140	1590
9	2140	2960	9000	3400	23900	14800	9680	30100	17000	2390	2720	2390
10	1290	2600	8350	3040	23900	15100	8700	30800	15700	2340	2360	1720
11	1870	2780	8420	3210	23700	15300	9150	33500	14300	2330	2570	1740
12	1240	3460	8490	4420	23200	16000	8120	36800	13300	2160	2820	1740
13	1210	2920	9380	5760	23300	16100	6690	37900	11300	1840	1980	1590
14	1210	2770	9950	6340	23700	17100	7240	38600	9310	1790	1260	1800
15	1210	2390	8930	7420	23000	17800	7200	39000	7710	2520	1840	4840
16	1200	2180	6610	8260	22500	18300	6850	39600	6260	2150	1650	5210
17	1120	1940	4880	9930	21700	18300	6350	39200	5980	1870	1060	4530
18	1150	1710	4330	10600	20700	18100	6220	39700	4900	3150	1030	3650
19	1200	4460	4090	11500	20300	18100	5790	40400	4700	3580	1140	4830
20	1200	5690	5080	12600	19800	18100	6280	39100	2050	2920	1630	4920
21	1240	7090	4540	13600	19500	18100	8150	39400	2920	2930	2010	4970
22	1260	6370	4780	14300	18800	18900	8760	40100	3310	2950	2590	6370
23	1290	4170	4700	14900	18200	19300	13800	39700	3300	3240	2320	7370
24	1740	4610	5510	16900	17400	19700	9620	39400	3780	4400	1010	7110
25	1780	5550	5890	19100	16600	19100	7030	38500	4160	3700	1020	6970
26	1260	7020	4580	19800	15200	19000	10300	38700	3770	3440	1010	6280
27	1240	6960	4320	20200	13300	19400	12000	38100	3760	3900	1040	5940
28	1650	4960	2920	22300	13500	19400	13000	36700	3700	3360	1690	3960
29	1440	4480	2410	22700	---	19400	13200	33900	3390	3790	4080	3830
30	1270	6780	3550	22900	---	19400	13500	34700	3720	4690	3800	3570
31	1270	---	2720	23300	---	19000	---	31100	---	4770	3280	---
TOTAL	62590	116700	199340	321270	593600	512300	322230	977500	360020	93630	78060	108070
MEAN	2019	3890	6430	10360	21200	16530	10740	31530	12000	3020	2518	3602
MAX	5570	7090	10500	23300	24500	19700	18900	40400	32000	4770	5150	7370
MIN	1090	1260	2410	2110	13300	11000	5790	11700	2050	1790	1010	1220
AC-FT	124100	231500	395400	637200	1177000	1016000	639100	1939000	714100	185700	154800	214400
CAL YR 1977	TOTAL	3804870	MEAN	10420	MAX	38700	MIN	1090	AC-FT	7547000		
WTR YR 1978	TOTAL	3745310	MEAN	10260	MAX	40400	MIN	1010	AC-FT	7429000		

RED RIVER BASIN

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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Considerable regulation by five reservoirs in Arkansas and two reservoirs in Louisiana, combined capacity, 3,337,800 acre-ft (4.12 km³), and a series of navigation locks and dams.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 30.79 ft (9.385 m) May 20, 1978; minimum gage height, 9.86 ft (3.005 m) Oct. 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 30.79 ft (9.385 m) May 20; minimum gage height, 9.86 ft (3.005 m) Oct. 27.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.95	10.26	---	10.23	19.22	13.57	---	13.86	25.55	10.69	---	10.43
2	10.84	10.36	12.57	10.24	19.47	13.13	---	13.27	24.89	10.53	---	10.35
3	---	10.09	12.95	10.43	19.35	12.89	---	12.86	24.05	10.57	---	10.26
4	10.35	10.16	13.41	10.60	19.28	12.91	---	12.75	23.21	10.46	---	10.34
5	10.96	10.75	13.57	10.32	19.29	13.03	---	12.81	22.41	10.48	---	10.27
6	10.87	10.87	13.50	10.30	19.14	13.32	16.61	12.99	21.47	10.49	---	10.27
7	10.02	11.08	13.19	10.43	19.08	13.70	16.30	16.23	20.43	10.40	---	10.27
8	10.23	10.37	12.52	10.57	18.93	13.87	15.91	19.98	19.42	10.38	---	10.27
9	10.21	10.24	12.18	10.40	18.63	14.12	15.62	22.23	18.05	10.38	---	10.39
10	10.15	10.23	11.87	10.40	18.45	14.29	15.43	24.35	16.48	10.37	---	10.36
11	10.28	10.27	11.79	10.52	18.23	14.34	15.42	26.00	15.12	10.38	10.41	10.35
12	10.19	10.43	11.80	10.56	18.00	14.58	15.23	27.57	14.35	10.34	10.51	10.35
13	10.17	10.23	11.86	11.05	18.59	14.73	14.97	28.36	13.42	10.33	10.35	10.35
14	10.22	10.27	13.11	11.52	18.78	---	14.74	29.07	12.50	10.27	10.27	10.32
15	10.18	10.23	12.92	11.72	18.75	---	14.61	29.65	11.75	10.39	10.37	10.66
16	10.14	10.25	12.60	11.81	18.46	---	14.35	30.04	11.34	10.39	10.36	12.59
17	10.16	10.22	12.32	12.63	18.19	---	14.04	30.34	11.16	10.23	10.28	12.46
18	10.17	10.08	11.76	13.06	17.81	---	13.57	30.58	10.87	10.45	10.26	12.69
19	10.12	10.51	11.46	13.55	17.44	---	12.85	30.71	10.79	10.59	10.26	11.97
20	10.12	10.82	11.31	14.04	17.04	---	12.23	30.77	10.53	10.36	10.26	11.39
21	10.13	11.21	10.86	14.47	16.78	---	12.09	30.74	10.38	---	10.31	10.93
22	10.13	11.25	10.77	14.74	16.52	---	12.15	30.64	10.47	---	10.34	11.10
23	10.13	10.86	10.83	14.88	16.19	---	12.09	30.35	10.54	---	10.52	11.29
24	10.18	11.12	10.91	15.38	15.82	---	14.32	29.95	10.54	---	10.24	11.32
25	10.16	11.36	11.02	17.11	15.43	---	10.93	29.54	10.73	---	10.21	11.21
26	10.11	11.66	10.68	17.88	15.05	---	12.15	29.10	10.61	---	10.23	11.03
27	10.12	11.49	10.58	18.28	14.40	---	12.92	28.64	10.61	---	10.23	10.98
28	10.14	---	10.29	18.58	14.01	---	13.50	28.14	10.54	---	10.28	10.72
29	10.11	---	10.22	18.85	---	---	13.83	27.66	10.45	---	11.25	10.48
30	10.14	---	10.42	18.96	---	---	13.89	27.02	10.55	---	10.69	10.62
31	10.18	---	10.25	19.06	---	---	---	26.28	---	---	10.56	---
MEAN	---	---	---	13.31	17.73	---	---	24.92	14.77	---	---	10.87
MAX	10.96	---	13.57	19.06	19.47	---	---	30.77	25.55	---	---	12.69
MIN	10.11	10.09	10.22	10.23	14.01	---	10.93	12.75	10.38	10.23	---	10.26

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, 618 micromhos Oct. 3, 1977; minimum daily, 69 micromhos Mar. 4, 1975

WATER TEMPERATURES: Maximum, 33.5°C several days during August 1976; minimum, 3.5°C Dec. 24, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM- FLOW (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)
OCT 12...	1700	1280	341	6.7	23.5	90	20	--	--	<5	K80	60
NOV 01...	1620	1270	335	8.3	21.0	40	10	7.6	--	K10	K110	54
DEC 16...	0835	7470	221	6.4	10.5	50	15	10.6	2.2	K430	K90	45
JAN 27...	1000	21300	153	6.2	4.0	50	75	11.8	3.9	K2400	1000	28
FEB 21...	0900	19180	242	6.6	6.0	40	25	12.0	1.8	9800	K130	50
MAR 16...	0815	18450	210	6.4	10.5	40	20	11.3	--	1100	K50	35
APR 04...	0910	--	171	6.3	17.0	40	15	8.9	1.9	K1400	K200	42
MAY 10...	0900	--	129	6.2	21.5	100	75	6.8	3.1	K420	680	24
JUN 14...	1030	9510	184	6.1	26.0	100	15	5.7	3.8	140	K55	41
JUL 25...	0820	3950	277	6.7	32.0	45	25	4.6	3.3	K150	15000	48
AUG 09...	0850	2790	202	6.6	30.5	60	15	4.9	.9	--	7600	36
SEP 06...	1130	1460	301	6.7	26.0	20	5	8.2	4.5	K12	K40	49

DATE	HARD- NESS, NONCAR- BONATE, DIS- (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 12...	23	18	3.6	40	58	2.3	2.9	45	0	37	24	61
NOV 01...	24	16	3.4	44	62	2.6	3.2	37	0	30	27	68
DEC 16...	21	14	2.5	22	50	1.4	2.4	30	0	25	13	38
JAN 27...	10	8.4	1.8	16	53	1.3	2.3	22	0	18	15	25
FEB 21...	33	15	3.0	29	55	1.8	2.1	21	0	17	19	51
MAR 16...	18	9.6	2.7	24	58	1.8	1.9	21	0	17	16	42
APR 04...	24	13	2.2	16	44	1.1	1.9	22	0	18	15	30
MAY 10...	11	6.9	1.7	13	51	1.2	2.0	16	0	13	8.2	21
JUN 14...	19	12	2.6	19	19	1.3	2.2	27	0	22	10	34
JUL 25...	14	14	3.2	33	58	2.1	2.3	42	0	34	15	56
AUG 09...	9	10	2.6	23	56	1.7	2.3	32	0	26	13	34
SEP 06...	5	15	2.9	38	61	2.4	2.4	54	0	44	15	57

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

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 12...	.2	6.4	188	179	.26	650	.59	--	--	.45	--	--
NOV 01...	.2	6.1	187	186	.25	641	.73	--	--	.41	--	--
DEC 16...	.1	6.7	131	113	.18	2640	.31	--	--	.60	--	--
JAN 27...	.1	5.7	91	85	.12	5230	.29	.18	.92	1.1	.45	.65
FEB 21...	.1	9.0	133	139	.18	6890	.21	.17	--	--	--	--
MAR 16...	.1	6.4	124	113	.17	6180	.22	.16	.64	.80	.19	.61
APR 04...	.1	6.2	97	96	.13	--	.15	.27	.41	.68	.38	.30
MAY 10...	.1	4.7	--	65	.24	--	.25	.24	.45	.69	.16	.53
JUN 14...	.1	8.3	119	102	.16	3060	.24	.08	.75	.83	.35	.48
JUL 25...	.1	7.9	164	153	.22	1750	.29	.07	.75	.82	.23	.59
AUG 09...	.2	7.3	123	108	.17	927	.03	.32	1.2	1.5	.92	.58
SEP 06...	.1	8.3	164	165	.22	646	.19	.07	1.0	1.1	.21	.69

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 12...	1.0	4.6	.09	--	11	--	--	--	81	212	733
NOV 01...	1.1	5.0	.08	--	--	--	--	290	66	56	192
DEC 16...	.91	4.0	.06	--	--	--	--	--	91	323	6520
JAN 27...	1.4	6.2	.14	.03	--	7.7	--	--	75	24	1380
FEB 21...	--	--	.09	.01	--	--	--	--	83	17	880
MAR 16...	1.0	4.5	.16	.14	6.3	--	--	2100	76	80	3990
APR 04...	.83	3.7	.05	.05	--	8.6	1.0	--	92	41	--
MAY 10...	.94	4.2	.16	.08	15	--	--	200	93	135	--
JUN 14...	1.1	4.7	.14	.03	--	11	--	--	70	46	1180
JUL 25...	1.1	4.9	.12	.02	--	7.7	2.3	--	--	--	--
AUG 09...	1.5	6.8	.10	.03	9.8	--	--	--	95	33	249
SEP 06...	1.3	5.7	.06	.02	9.9	--	--	--	10	38	150

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 12...	1	1	0	--	--	--	<10	<10	0	5
JAN 27...	1	0	1	0	0	0	2	2	0	0
APR 04...	1	0	1	100	0	100	0	0	0	0
JUL 25...	7	5	2	200	0	200	2	0	2	10

DATE	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)
OCT 12...	0	5	<50	<50	0	<10	<7	3	1100	1000
JAN 27...	0	0	1	0	1	11	5	6	2800	2700
APR 04...	0	0	4	3	1	5	1	4	760	520
JUL 25...	10	0	1	0	1	10	4	6	2200	1600

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 12...	70	<100	<99	1	250	70	180	.0	.0	.0
JAN 27...	110	240	240	2	170	50	120	.0	.0	.0
APR 04...	240	3	1	2	90	10	80	.0	.0	.0
JUL 25...	590	11	8	3	480	70	410	.1	.1	.0

DATE	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDED RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 12...	0	0	0	--	--	--	--	--	30
JAN 27...	1	1	0	0	0	0	110	90	20
APR 04...	0	0	0	0	0	0	10	0	10
JUL 25...	0	0	0	0	0	0	30	10	20

DATE	SOLIDS, RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)	GROSS ALPHA, DIS- SOLVED (UG/L U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L CS-137)	GROSS BETA, DIS- SOLVED (PCI/L YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)
APR 04...	110	23	.06	<2.5	1.7	3.3	1.0	2.9	1.0	.07
JUL 25...	--	--	.07	4.9	1.3	4.1	1.0	3.8	1.0	.08

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

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	566	544					---	---				
2	573	509					---	---				
3	618	583					---	---				
4	---	---					---	---				
5	---	---					252	241				
6	---	---					255	243				
7	---	---					256	246				
8	---	---					250	245				
9	---	---					244	237				
10	---	---					236	230				
11	---	---					233	227				
12	---	---					231	227				
13	---	---					227	216				
14	---	---					219	211				
15	---	---					214	205				
16	---	---					212	207				
17	---	---					208	205				
18	---	---					204	194				
19	---	---					195	187				
20	---	---					187	183				
21	---	---					182	179				
22	---	---					180	171				
23	---	---					169	165				
24	---	---					173	165				
25	---	---					173	168				
26	---	---					---	---				
27	---	---					---	---				
28	---	---					---	---				
29	---	---					---	---				
30	---	---					---	---				
31	---	---					---	---				

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	262	248	---	---	---	---	252	233	241	229
2	---	---	285	261	133	130	---	---	229	223	253	242
3	---	---	---	---	134	132	---	---	223	216	262	254
4	---	---	---	---	136	133	---	---	222	215	277	262
5	---	---	---	---	---	---	---	---	218	211	293	278
6	---	---	---	---	---	---	---	---	209	202	302	292
7	---	---	---	---	---	---	216	200	213	204	324	304
8	---	---	---	---	140	136	221	217	208	199	337	326
9	---	---	---	---	146	140	230	224	205	198	354	338
10	---	---	---	---	150	146	240	233	207	200	365	343
11	---	---	---	---	171	151	249	243	214	205	380	364
12	---	---	---	---	198	175	255	249	222	214	407	382
13	---	---	---	---	195	192	259	255	223	219	437	409
14	---	---	---	---	206	189	263	257	224	220	442	432
15	---	---	---	---	275	208	265	260	224	221	431	347
16	---	---	---	---	282	265	269	264	227	222	348	326
17	---	---	---	---	265	242	276	270	229	225	326	292
18	---	---	---	---	260	243	291	281	232	228	293	281
19	---	---	---	---	262	255	---	---	237	231	333	290
20	---	---	---	---	255	248	---	---	239	235	330	257
21	---	---	---	---	250	248	---	---	241	239	257	242
22	221	212	---	---	259	250	---	---	242	239	276	241
23	231	221	---	---	271	259	---	---	240	235	288	273
24	242	223	---	---	273	268	---	---	237	234	338	273
25	259	244	---	---	268	253	---	---	235	230	344	279
26	304	263	---	---	253	242	---	---	231	229	288	257
27	308	275	---	---	240	237	---	---	231	227	448	294
28	277	252	---	---	236	234	---	---	229	223	507	457
29	369	282	---	---	235	231	---	---	222	216	508	448
30	321	260	---	---	---	---	289	283	223	216	446	406
31	---	---	---	---	---	---	281	256	227	184	---	---

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.0	27.5			---	---	8.5	7.0				
2	28.0	27.0			14.5	12.5	9.0	8.5				
3	27.5	27.0			13.5	7.0	9.0	8.0				
4	---	---			7.5	6.0	9.5	9.0				
5	---	---			8.5	7.5	---	---				
6	---	---			8.5	8.0	---	---				
7	---	---			9.0	6.5	---	---				
8	---	---			8.0	7.5	---	---				
9	---	---			8.5	8.0	---	---				
10	---	---			8.5	8.0	---	---				
11	---	---			8.5	8.0	---	---				
12	---	---			9.0	8.0	---	---				
13	---	---			9.0	8.0	---	---				
14	---	---			8.5	7.5	---	---				
15	---	---			8.0	7.5	---	---				
16	---	---			8.0	7.0	---	---				
17	---	---			7.5	6.5	---	---				
18	---	---			7.5	7.0	---	---				
19	---	---			7.5	5.0	---	---				
20	---	---			5.0	4.0	---	---				
21	---	---			5.0	4.0	---	---				
22	---	---			4.5	4.0	---	---				
23	---	---			4.0	4.0	---	---				
24	---	---			4.0	3.5	---	---				
25	---	---			4.5	4.0	---	---				
26	---	---			5.0	4.0	---	---				
27	---	---			4.5	4.0	---	---				
28	---	---			5.0	4.5	---	---				
29	---	---			5.0	4.5	---	---				
30	---	---			6.0	5.0	---	---				
31	---	---			7.0	5.0	---	---				

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	22.0	20.5	---	---	---	---	32.0	31.0	30.5	30.0
2	---	---	21.5	20.5	26.5	26.0	---	---	32.0	31.0	31.0	30.0
3	---	---	---	---	26.5	26.0	---	---	32.0	31.0	30.5	30.0
4	---	---	---	---	26.5	26.0	---	---	32.0	31.5	30.5	29.5
5	---	---	---	---	---	---	---	---	31.5	31.0	30.5	30.0
6	---	---	---	---	---	---	---	---	31.5	31.0	31.0	29.5
7	---	---	---	---	---	---	32.0	31.5	31.5	30.5	30.5	30.0
8	---	---	---	---	27.5	26.5	32.0	31.5	31.5	30.5	30.5	30.0
9	---	---	---	---	27.5	26.5	32.0	31.5	31.0	30.5	30.5	29.5
10	---	---	---	---	27.5	27.0	32.0	32.0	30.5	30.0	30.0	29.5
11	---	---	---	---	27.5	27.0	32.5	32.0	31.0	30.0	30.0	29.5
12	---	---	---	---	28.0	27.0	32.5	32.0	30.5	30.0	29.5	29.5
13	---	---	---	---	28.5	27.5	32.5	32.0	31.0	30.0	30.0	29.5
14	---	---	---	---	28.5	27.0	32.5	32.0	30.0	30.0	29.5	28.5
15	---	---	---	---	28.5	28.0	32.5	32.0	30.0	29.5	29.5	29.0
16	---	---	---	---	28.5	27.0	32.5	32.0	30.0	29.5	30.0	28.5
17	---	---	---	---	29.0	28.0	33.0	32.0	30.0	29.5	30.0	29.5
18	---	---	---	---	29.5	28.5	32.5	32.0	30.0	29.5	29.5	28.5
19	---	---	---	---	29.5	29.0	32.0	32.0	30.0	29.5	30.0	29.0
20	---	---	---	---	29.5	28.5	33.0	27.0	30.0	29.5	29.5	28.5
21	---	---	---	---	29.5	29.0	33.0	32.0	30.5	29.5	30.0	29.0
22	21.5	20.5	---	---	30.0	29.5	32.5	31.5	30.5	30.0	29.5	28.5
23	21.5	21.0	---	---	30.0	29.5	32.5	31.5	30.5	30.0	29.0	28.5
24	21.5	21.5	---	---	30.0	29.5	32.0	31.5	30.5	30.0	29.0	28.5
25	22.0	21.5	---	---	30.5	30.0	32.0	30.5	30.5	30.0	29.0	28.5
26	22.0	21.5	---	---	30.5	30.0	32.5	31.5	30.5	30.5	28.5	28.0
27	22.0	21.0	---	---	30.5	30.0	31.5	31.0	31.0	30.0	28.0	27.5
28	22.0	21.0	---	---	31.0	30.5	32.0	31.0	30.5	29.5	28.0	27.0
29	22.0	21.5	---	---	31.0	29.5	32.0	31.0	29.5	29.0	28.0	27.5
30	22.0	21.5	---	---	---	---	32.5	30.5	29.5	28.5	28.0	27.5
31	---	---	---	---	---	---	32.5	31.5	30.5	29.5	---	---

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

NOV. 1, 1977 1620 HOURS

PHYTOPLANKTON 290 CELLS/ML

__ORGANISM__NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...SCENEDESMACEAE		
....ACTINASTRUM	49	17
...SCENEDESMUS	37	13
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CARTERIA	43	15
...PHACOTACEAE		
...PTEROMONAS	18	6
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
...MELOSIRA	37	13
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	12	4
...NAVICULACEAE		
...NAVICULA	12	4
...NITZSCHACEAE		
...NITZSCHIA	6	2
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENOCEAE		
...EUGLENA	6	2
...TRACHELOMONAS	67	23

MAR. 16, 1978 0815 HOURS

PHYTOPLANKTON 2,100 CELLS/ML

__ORGANISM__NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
...ANKISTRODESMUS	41	2
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
...CHLAMYDOMONAS	14	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
...CYCLOTELLA	27	1
...MELOSIRA	1,900	93
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	41	2
...GOMPHONEMATACEAE		
...GOMPHONEMA	27	1

MAY 10, 1978 0900 HOURS

PHYTOPLANKTON 200 CELLS/ML

__ORGANISM__NAME	CELLS/ML	PER_CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
...CYCLOTELLA	14	7
..PENNALES		
...NITZSCHACEAE		
...NITZSCHIA	14	7
CYANOPHYTA		
.CYANOPHYCEAE		
..HORMOGONALES		
...OSCILLATORIACEAE		
...OSCILLATORIA	140	71
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENAEAE		
...TRACHELOMONAS	29	14

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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Dec. 31, 1957, nonrecording gage, Dec. 31, 1957, to Oct. 1, 1961, water-stage recorder on left bank 300 ft (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) National Geodetic Vertical Datum of 1929.

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 stations Bayou Lafourche near Crew Lake and Boeuf River near Girard (sta 07369000 and 07368000). Records of dissolved oxygen and water temperatures for the water year 1978 are published under miscellaneous water-quality sites in this report.

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, 1977, and 1978, 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, 22.22 ft (6.773 m) May 9; minimum discharge, no flow June 30 to July 7, July 14, 15, 22-28, Aug. 1-10, result of pumping for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	85		112			106	89		0	0	
2		120		108			95			0	0	
3				102			94			0	0	
4	158			100			85			0	0	
5	130			102			85			0	0	
6	112			181			78			0	0	186
7	95		191	196			73			0	0	141
8	107		164		178		66				0	112
9	158	196			169		70				0	98
10	176	162			164		72				0	84
11		141			160		196			89	38	83
12		125	167		167					36	160	85
13		108				191	184		196	6.8	174	90
14	162	97					115		130	0		100
15	138	90					90		94	0	181	106
16	118	86					82		75	50	147	106
17	104	83					80		40		101	174
18	97	83					82		20	164	73	171
19	93	80							1.0	88	61	130
20	90	81				181			176	32	61	104
21	85		196		196	169	141		184	3.2	50	84
22	84		162		171	151	104		138	0	28	69
23	82		143		160	138	98			0	23	55
24	85	153	134		156	145	94		194	0	20	44
25	88	123	128		156	143	158		140	0	30	40
26	86	123	115		147	136	174		90	0	39	39
27	85	113	110		143	132	130		49	0	53	39
28	83	127	107			125	102		23	0	54	39
29	84		108		---	120	88		1.0	1.0	153	38
30	84		118		---	109	85		0	4.4		46
31	85	---	113		---	112	---		---	4.0		---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	82	80	107	100	143	109	66	89	0	0	0	38

RED RIVER BASIN

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

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.22	1.10	7.64	1.29	2.76	3.80	1.25	1.13	1.85	-1.93	-.83	3.05
2	1.79	1.34	5.87	1.27	2.55	2.88	1.18	1.92	6.51	-2.08	-1.32	2.63
3	1.73	1.84	4.44	1.23	2.26	3.26	1.17	3.83	8.86	-2.27	-1.75	2.19
4	1.54	2.18	2.97	1.21	2.02	3.35	1.10	3.51	4.82	-2.34	-2.05	1.95
5	1.40	2.67	2.24	1.23	1.90	2.64	1.10	3.29	2.72	-2.22	-2.05	1.75
6	1.29	2.50	1.88	1.64	1.82	2.09	1.04	2.44	1.98	-2.18	-2.04	1.54
7	1.18	2.32	1.68	1.70	1.74	2.24	.99	13.24	2.45	-2.28	-1.79	1.34
8	1.26	1.88	1.57	2.42	1.63	2.84	.92	21.28	3.34	1.63	-1.10	1.17
9	1.54	1.70	2.13	4.85	1.59	2.34	.96	22.14	3.76	1.84	-1.33	1.08
10	1.62	1.56	2.17	3.85	1.57	2.04	.98	22.02	3.29	1.64	-.81	.98
11	2.19	1.46	1.78	2.58	1.55	1.88	1.70	21.08	2.16	1.02	.49	.97
12	2.09	1.37	1.58	2.15	1.58	1.77	2.02	20.55	1.68	.46	1.43	.99
13	1.78	1.27	3.51	2.47	3.73	1.68	1.65	20.83	1.58	-.38	1.49	---
14	1.56	1.19	10.78	2.86	3.18	5.67	1.31	19.81	1.32	-.95	1.60	---
15	1.44	1.14	6.42	2.59	3.10	5.24	1.14	15.88	1.05	-.98	1.52	1.13
16	1.33	1.11	3.18	3.76	2.43	3.12	1.07	8.71	.90	.65	1.37	1.14
17	1.24	1.08	2.85	12.38	2.04	2.33	1.05	3.77	.60	1.86	1.10	1.51
18	1.19	1.08	2.75	11.82	1.92	1.94	1.07	2.94	.10	1.45	.89	1.51
19	1.16	1.05	2.25	7.75	1.85	1.76	2.50	2.32	-.65	1.01	.77	1.33
20	1.14	1.06	1.92	4.26	1.80	1.64	1.95	2.01	1.50	.38	.77	1.18
21	1.10	2.33	1.70	2.75	1.70	1.59	1.46	1.74	1.53	-.55	.65	1.05
22	1.09	2.78	1.56	2.34	1.60	1.51	1.24	1.91	1.32	-1.41	.31	.93
23	1.07	1.84	1.47	2.25	1.55	1.44	1.20	2.23	1.84	-2.01	.20	.79
24	1.10	1.52	1.42	8.15	1.53	1.48	1.17	3.10	1.57	-2.04	.13	.66
25	1.12	1.36	1.39	16.60	1.53	1.47	1.54	2.67	1.36	-1.94	.35	.59
26	1.11	1.36	1.31	17.90	1.49	1.43	1.61	2.15	1.06	-1.63	.50	.57
27	1.10	1.30	1.28	15.61	1.47	1.41	1.40	1.74	.63	-1.67	.68	.55
28	1.08	1.38	1.26	11.42	2.41	1.37	1.23	1.61	.20	-1.49	.70	.55
29	1.09	2.47	1.27	6.72	---	1.34	1.12	1.73	-.65	-.65	1.40	.51
30	1.09	6.45	1.33	3.92	---	1.27	1.10	3.20	-1.69	-.49	2.77	.62
31	1.10	---	1.30	3.08	---	1.29	---	2.15	---	-.51	3.21	---
MEAN	1.35	1.79	2.74	5.29	2.01	2.26	1.31	7.64	1.90	-.65	.23	---
MAX	2.19	6.45	10.78	17.90	3.73	5.67	2.50	22.14	8.86	1.86	3.21	3.05
MIN	1.07	1.05	1.26	1.21	1.47	1.27	.92	1.13	-1.69	-2.34	-2.05	.51

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 3,175km² (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) National Geodetic Vertical Datum of 1929 (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) National Geodetic Vertical Datum of 1929. 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 Sept. 30, 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--40 years, 377 ft³/s (10.68 m³/s), 273,100 acre-ft/yr (337 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 over-flow from Mississippi River).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,830 ft³/s (51.8 m³/s) May 14; maximum gage height, 15.57 ft (4.746 m) May 14; minimum daily discharge, 16 ft³/s (0.45 m³/s) Aug. 9-11; minimum gage height, not determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	36	428	61	211	39	47	46	74	33	18	150
2	47	45	456	58	190	41	47	44	153	32	18	140
3	48	46	360	56	158	49	47	52	117	31	17	130
4	50	46	264	53	122	52	46	59	144	30	17	100
5	49	50	187	52	99	51	46	66	112	30	17	90
6	45	56	139	50	85	53	45	73	156	30	17	80
7	41	62	117	49	73	60	42	400	124	28	17	60
8	49	67	99	69	62	63	41	900	113	28	17	50
9	57	74	86	85	56	67	40	1300	123	26	16	45
10	67	73	75	87	51	71	43	1490	115	26	16	40
11	66	69	70	104	53	71	47	1560	99	28	16	38
12	58	64	67	130	65	68	44	1610	84	28	18	36
13	52	59	106	151	130	61	45	1750	69	26	18	34
14	50	55	200	157	184	58	47	1790	55	24	20	36
15	48	52	358	134	171	55	45	1690	47	23	21	667
16	45	50	386	126	129	74	43	1520	41	22	22	426
17	43	47	297	196	106	92	41	1180	37	22	25	350
18	40	46	210	329	89	82	42	709	34	20	30	250
19	38	46	154	424	75	70	40	388	32	18	40	200
20	37	46	127	390	65	61	38	229	30	20	40	156
21	36	52	109	278	57	55	40	154	28	20	30	113
22	35	109	95	195	53	51	42	124	28	20	25	82
23	35	199	84	145	49	49	42	110	37	20	20	65
24	35	179	76	188	46	55	49	100	37	20	18	52
25	35	140	69	465	42	54	56	89	36	18	19	43
26	36	109	65	791	40	52	51	82	36	18	19	36
27	35	85	60	860	40	49	49	73	36	18	20	32
28	35	75	56	837	40	49	49	64	36	18	21	30
29	34	97	61	700	---	47	49	57	34	18	22	29
30	34	242	67	489	---	47	48	57	33	18	23	27
31	35	---	64	298	---	47	---	69	---	18	160	---
TOTAL	1352	2376	4992	8007	2541	1793	1351	17835	2400	731	797	3587
MEAN	43.6	79.2	161	258	90.8	57.8	45.0	575	80.0	23.6	25.7	120
MAX	67	242	456	860	211	92	56	1790	144	33	160	667
MIN	34	36	56	49	40	39	38	44	28	18	16	27
AC-FT	2680	4710	9900	15880	5040	3560	2680	35380	4760	1450	1580	7110
CAL YR 1977	TOTAL	28424.8	MEAN	77.9	MAX	1100	MIN	9.6	AC-FT	56380		
WTR YR 1978	TOTAL	47762.0	MEAN	131	MAX	1790	MIN	16	AC-FT	94740		

RED RIVER BASIN

07368000 BOHEF RIVER NEAR GIRARD, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.88	3.76	7.88	4.13	7.18	3.97	3.97	3.90	4.30	3.56		---
2	4.03	3.90	8.24	4.09	6.90	4.01	3.96	3.87	5.56	3.53		---
3	4.03	3.92	7.69	4.06	6.38	4.11	3.95	4.00	6.19	3.51		---
4	4.05	3.93	6.87	4.02	5.77	4.15	3.93	4.10	6.50	3.48		---
5	4.04	3.98	6.10	4.00	5.25	4.18	3.93	4.20	6.26	3.48		---
6	3.98	4.06	5.46	3.98	4.86	4.20	3.92	4.29	5.62	3.48		---
7	3.91	4.14	5.00	3.97	4.59	4.24	3.87	7.56	5.07	3.43		---
8	4.03	4.20	4.69	4.22	4.40	4.27	3.84	10.77	4.85	3.39		---
9	4.13	4.28	4.49	4.46	4.28	4.33	3.83	13.12	4.92	3.34		---
10	4.27	4.27	4.34	4.48	4.19	4.37	3.87	14.05	4.82	3.34		---
11	4.25	4.23	4.26	4.65	4.21	4.37	3.92	14.39	4.61	3.37		---
12	4.14	4.17	4.21	5.02	4.39	4.32	3.89	14.70	4.43	3.37		---
13	4.06	4.10	4.80	5.34	5.58	4.24	3.89	15.35	4.23	3.32		---
14	4.02	4.05	6.18	5.44	6.15	4.19	3.90	15.53	4.05	3.25		---
15	3.99	4.00	7.34	5.23	6.10	4.14	3.89	15.18	3.92	3.21	10.95	---
16	3.95	3.97	7.67	5.20	5.64	4.39	3.85	14.49	3.82	3.18		9.52
17	3.91	3.94	7.13	6.08	5.20	4.60	3.82	13.14	3.76	3.17		7.70
18	3.87	3.92	6.35	7.10	4.87	4.48	3.84	10.96	3.70	3.10		6.62
19	3.83	3.92	5.71	7.87	4.62	4.33	3.81	8.86	3.66	3.03		5.88
20	3.80	3.92	5.24	7.78	4.46	4.20	3.78	7.28	3.62	3.07		5.35
21	3.78	4.00	4.90	7.07	4.32	4.12	3.80	6.18	3.58	3.08		4.95
22	3.76	4.66	4.64	6.26	4.23	4.06	3.83	5.51	3.58	3.09		4.62
23	3.75	5.59	4.46	5.65	4.16	4.02	3.83	5.08	3.71	3.07		4.43
24	3.76	5.47	4.34	6.37	4.10	4.11	3.94	4.76	3.70	3.09		4.26
25	3.77	5.03	4.23	8.44	4.06	4.10	4.05	4.54	3.68	3.07		4.12
26	3.77	4.66	4.17	10.31	4.01	4.05	3.98	4.40	3.67	3.03		4.02
27	3.76	4.41	4.11	11.01	4.00	4.02	3.95	4.29	3.66	---		3.96
28	3.75	4.29	4.06	11.06	4.00	4.00	3.95	4.17	3.64	---		3.91
29	3.74	4.54	4.12	10.47	---	3.98	3.94	4.07	3.61	---		3.89
30	3.74	6.40	4.20	9.28	---	3.97	3.93	4.07	3.57	---		3.85
31	3.74	---	4.16	7.89	---	3.97	---	4.24	---	---		---
MEAN	3.92	4.32	5.39	6.29	4.93	4.18	3.90	8.10	4.34	---		---
MAX	4.27	6.40	8.24	11.06	7.18	4.60	4.05	15.53	6.50	---		---
MIN	3.74	3.76	4.06	3.97	4.00	3.97	3.78	3.87	3.57	---		---

RED RIVER BASIN

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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 1974 are available in files of Baton Rouge district office.

GAGE.--Water-stage recorder. Datum of gage is 50.00 ft (15.240 m) National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.77 ft (4.197 m) Mar. 18, 1975; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.54 ft (3.822 m) May 14; minimum, not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.26	2.96	5.95	3.43	6.16	3.51	3.50	3.27	3.33	2.93	2.01	---
2	3.33	3.05	6.36	3.43	5.91	3.50	3.50	3.26	4.35	2.92	1.99	---
3	3.35	3.08	6.11	3.43	5.44	3.53	3.50	---	4.59	2.89	1.97	---
4	3.33	3.09	5.51	3.43	4.92	3.58	3.49	---	4.84	2.86	1.95	---
5	3.33	3.08	4.96	3.41	4.49	3.64	3.48	---	4.76	2.85	1.93	---
6	3.25	3.09	4.50	3.39	4.17	3.65	3.48	---	4.38	2.84	1.97	---
7	3.21	3.11	4.15	3.40	3.95	3.51	3.44	---	4.03	2.81	---	---
8	3.25	3.16	3.94	3.58	3.80	3.50	3.41	---	3.86	2.77	---	---
9	3.29	3.28	3.80	3.74	3.70	3.51	3.40	---	3.77	2.72	---	---
10	3.30	3.31	3.68	3.74	3.63	3.53	3.41	11.13	3.74	2.68	---	---
11	3.31	3.32	3.61	3.74	3.60	3.55	3.47	11.44	3.63	2.65	---	---
12	3.29	3.29	3.58	4.01	3.70	3.58	3.47	11.78	3.53	2.61	2.00	---
13	3.26	3.25	4.01	4.20	4.59	3.58	3.35	12.36	3.39	2.57	2.12	---
14	3.23	3.27	4.97	4.28	4.86	3.57	3.14	12.51	3.28	2.51	2.24	---
15	3.21	3.26	5.53	4.25	4.92	3.53	3.14	12.34	3.20	2.48	---	9.26
16	3.21	3.24	5.89	4.30	4.67	3.54	3.46	11.84	3.13	2.43	---	8.34
17	3.18	3.21	5.66	4.85	4.35	3.65	---	10.89	3.07	2.41	---	---
18	3.14	3.17	5.14	5.36	4.14	3.66	3.13	9.26	3.02	2.38	---	---
19	3.12	3.13	4.69	5.95	3.97	3.61	3.14	7.58	2.99	2.33	---	---
20	3.10	3.15	4.35	6.05	3.85	3.55	3.13	6.20	2.97	2.27	---	---
21	3.09	3.15	4.12	5.66	3.76	3.53	3.11	5.22	2.94	2.22	---	---
22	3.06	3.29	3.91	5.12	3.67	3.51	3.12	4.63	2.92	2.19	---	---
23	3.03	3.89	3.76	4.70	3.63	3.48	3.15	4.25	3.07	2.20	---	---
24	3.06	3.99	3.67	5.33	3.57	3.52	3.22	3.97	3.08	2.19	---	---
25	3.05	3.84	3.56	6.71	3.53	3.54	3.30	3.77	3.08	2.18	---	---
26	3.05	3.67	3.51	7.73	3.52	3.53	3.31	3.60	3.05	2.15	---	---
27	3.03	3.54	3.46	8.66	3.51	3.50	3.31	3.51	3.02	2.11	---	---
28	3.02	3.45	3.42	8.86	3.52	3.49	3.31	3.41	3.00	2.11	---	---
29	3.01	3.59	3.41	8.56	---	3.48	3.31	3.34	2.97	2.10	2.45	3.31
30	3.01	4.93	3.43	7.71	---	3.48	3.30	3.33	2.94	2.03	2.48	3.27
31	2.98	---	3.43	6.65	---	3.48	---	3.30	---	2.02	---	---
MEAN	3.17	3.36	4.39	5.09	4.20	3.54	---	---	3.46	2.46	---	---
MAX	3.35	4.93	6.36	8.86	6.16	3.66	3.50	12.51	4.84	2.93	---	---
MIN	2.98	2.96	3.41	3.39	3.51	3.48	3.11	---	2.92	2.02	---	---

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) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 10, 1944, nonrecording gage, Aug. 10, 1944, to June 5, 1952, water-stage recorder, and June 6 to September 30, 1952, nonrecording gage, all at same site at datum 19.00 ft (5.791 m) higher. Since Oct. 1, 1957, auxiliary water-stage recorder 9.5 mi (15.3 km) downstream from base gage at National Geodetic Vertical Datum of 1929 (sta 07369050).

REMARKS.--Records fair except those for periods of no gage-height record and 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 1978 are published under miscellaneous water-quality sites in this report.

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

AVERAGE DISCHARGE.--40 years, 1,611 ft³/s (45.62 m³/s), 1,167,000 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, 22,500 ft³/s (637 m³/s) May 13, 14, gage height, 27.39 ft (8.348 m); minimum, 28 ft³/s (0.79 m³/s) Aug. 8, gage height, 1.58 ft (0.482 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	90	8960	270	2680	1110	176	142	600	62	47	1750
2	192	134	6370	224	2340	1540	198	151	900	61	41	1450
3	350	260	4480	184	1370	1330	203	816	1500	64	42	1040
4	450	1040	3060	162	500	1350	203	2030	2000	67	39	717
5	598	1440	1910	147	400	1240	236	1900	2000	60	38	525
6	424	1590	1320	151	350	771	250	1620	1400	66	46	402
7	106	1450	717	305	518	654	213	7370	672	90	40	282
8	115	1040	549	396	589	1300	190	16100	1630	126	36	205
9	228	408	545	500	533	1400	186	18300	1670	438	42	155
10	429	295	848	600	424	1030	188	19700	1800	387	78	140
11	956	222	708	800	384	511	227	20600	1410	248	129	147
12	915	184	452	1000	384	452	668	21300	753	130	231	135
13	852	146	1260	1500	3570	369	625	22300	522	100	245	119
14	483	116	7600	2500	3420	847	351	22500	480	66	339	234
15	190	102	8990	4000	2160	3180	205	21600	220	61	375	5570
16	149	92	4530	6000	2060	2500	142	19900	155	61	339	5660
17	121	87	2540	8000	1620	1290	129	15700	129	67	236	2800
18	103	78	2280	8000	1490	717	135	11200	119	236	172	1440
19	100	75	1670	7500	1450	469	182	5450	100	157	149	564
20	91	78	1030	6000	1060	390	589	3000	96	71	140	545
21	88	1120	798	4000	518	336	336	2000	142	52	124	375
22	86	4420	545	2500	405	318	178	1500	194	51	140	222
23	83	3010	427	1500	339	262	157	1000	186	46	113	158
24	83	1870	375	6800	305	265	192	800	290	43	109	129
25	82	1300	360	12600	310	288	427	1030	238	49	109	103
26	80	378	300	14200	305	282	613	800	184	52	96	87
27	79	275	268	14300	265	248	753	600	124	54	113	85
28	82	302	238	12700	282	229	486	450	69	57	115	85
29	97	1600	245	10900	---	218	184	400	61	67	566	79
30	96	6280	295	7350	---	194	139	600	62	90	1670	76
31	90	---	315	5040	---	180	---	700	---	57	1800	---
TOTAL	7907	29482	63985	140129	30031	25270	8761	241559	19706	3236	7759	25279
MEAN	255	983	2064	4520	1073	815	292	7792	657	104	250	843
MAX	956	6280	8990	14300	3570	3180	753	22500	2000	438	1800	5660
MIN	79	75	238	147	265	180	129	142	61	43	36	76
AC-FT	15680	58480	126900	277900	59570	50120	17380	479100	39090	6420	15390	50140

CAL YR 1977 TOTAL 445334 MEAN 1220 MAX 16900 MIN 22 AC-FT 883300
WTR YR 1978 TOTAL 603104 MEAN 1652 MAX 22500 MIN 36 AC-FT 1196000

NOTE.--Periods of indefinite stage-discharge relation: Feb. 4-6, May 20, 26-28.

RED RIVER BASIN

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07369000 BAYOU LAFOURCHE NEAR CREW LAKE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.15	1.90	18.70	2.86	12.66	5.14	2.44	2.26	---	1.99	1.82	6.45
2	2.52	2.21	17.25	2.67	12.78	6.05	2.55	2.31	---	1.98	1.74	5.78
3	3.04	2.82	14.58	2.48	10.68	5.60	2.57	4.38	---	2.01	1.75	4.89
4	3.38	4.87	12.00	2.37	8.90	5.65	2.57	7.08	---	2.05	1.72	4.16
5	3.86	5.76	9.52	2.29	7.53	5.41	2.72	6.79	---	1.97	1.70	3.70
6	3.29	6.10	7.38	2.31	6.32	4.40	2.78	6.16	---	2.03	1.80	3.34
7	2.13	5.78	4.94	3.00	5.26	4.15	2.62	15.13	7.23	2.16	1.73	2.93
8	2.18	4.87	3.76	3.32	4.35	5.54	2.51	24.95	7.82	2.33	1.68	2.65
9	2.64	3.36	3.75	---	3.72	5.76	2.49	26.15	7.54	3.45	1.75	2.45
10	3.22	2.96	4.45	---	3.41	4.95	2.50	26.59	7.29	3.29	2.10	2.39
11	4.69	2.66	4.14	---	3.28	3.80	2.68	26.85	5.94	2.81	2.34	2.42
12	4.60	2.48	3.49	---	3.28	3.64	4.05	27.04	4.24	2.35	2.75	2.37
13	4.46	2.28	5.24	---	10.40	3.38	3.95	27.34	3.69	2.21	2.80	2.30
14	3.58	2.10	16.75	---	11.88	4.52	3.17	27.38	3.57	2.04	3.13	2.74
15	2.51	2.00	19.15	---	9.40	9.45	2.58	27.29	2.71	1.98	3.25	14.42
16	2.30	1.92	15.33	---	8.62	8.11	2.26	27.00	2.45	1.98	3.13	18.40
17	2.13	1.87	11.30	---	7.36	5.44	2.18	26.27	2.34	2.05	2.77	14.46
18	2.01	1.78	9.65	---	6.54	4.16	2.22	24.98	2.30	2.77	2.52	10.26
19	1.98	1.74	7.95	---	6.02	3.54	2.47	22.66	2.21	2.46	2.43	6.75
20	1.91	1.78	5.60	---	5.03	3.30	3.86	19.82	2.19	2.09	2.39	4.58
21	1.88	4.47	4.34	---	3.82	3.12	3.12	---	2.49	1.88	2.32	3.25
22	1.86	11.76	3.75	---	3.50	3.05	2.45	---	2.61	1.87	2.39	2.72
23	1.83	9.81	3.42	---	3.28	2.83	2.34	---	2.65	1.80	2.27	2.47
24	1.83	7.25	3.25	---	3.15	2.84	2.52	12.50	2.94	1.76	2.25	2.34
25	1.82	5.59	3.20	22.78	3.17	2.93	3.42	12.50	2.78	1.84	2.25	2.22
26	1.80	3.26	2.98	24.03	3.15	2.91	3.92	11.68	2.57	1.88	2.19	2.11
27	1.79	2.88	2.85	24.11	2.99	2.77	4.24	10.91	2.32	1.90	2.27	2.10
28	1.82	2.99	2.73	23.38	3.06	2.69	3.59	10.33	2.06	1.93	2.28	2.10
29	1.96	6.10	2.76	20.80	---	2.64	2.48	---	1.98	2.05	3.70	2.05
30	1.95	14.77	2.96	16.50	---	2.53	2.24	---	1.99	2.16	6.28	2.02
31	1.90	---	3.04	12.82	---	2.46	---	---	---	1.93	6.57	---
MEAN	2.55	4.34	7.43	---	6.20	4.28	2.85	---	---	2.16	2.58	4.69
MAX	4.69	14.77	19.15	24.11	12.78	9.45	4.24	27.38	---	3.45	6.57	18.40
MIN	1.79	1.74	2.73	2.29	2.99	2.46	2.18	2.26	1.98	1.76	1.68	2.02

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 National Geodetic Vertical Datum of 1929 (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, 61.03 ft (18.602 m) May 15; minimum, 33.75 ft (10.287 m) Aug. 5.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.90	35.51	52.41	36.93	48.44	38.43	38.25	35.92	45.44	35.00	34.64	40.67
2	36.15	36.49	51.96	36.60	48.75	40.12	38.65	35.49	46.44	34.93	34.34	40.05
3	36.82	36.43	49.68	36.44	46.88	39.74	38.79	37.06	48.86	34.84	34.15	39.31
4	37.10	38.40	47.41	36.30	45.32	39.75	38.92	40.93	49.16	34.84	33.97	38.46
5	37.75	39.58	45.23	36.21	43.94	39.59	39.16	41.01	46.70	34.77	33.84	37.80
6	37.45	40.20	43.13	36.18	42.73	38.65	39.24	40.50	44.78	34.71	34.05	37.36
7	36.25	39.88	40.95	---	41.52	38.29	39.18	47.95	43.52	34.89	34.26	36.90
8	35.85	39.30	39.35	---	40.42	39.64	39.00	58.32	43.33	35.01	34.10	36.49
9	36.46	37.78	38.18	---	39.26	39.95	38.96	59.24	42.90	36.06	34.06	36.22
10	36.72	36.93	38.45	---	38.47	39.10	38.94	59.73	42.33	36.54	34.64	36.02
11	38.55	36.48	38.38	---	38.08	38.08	38.85	60.03	41.02	35.94	35.15	36.00
12	38.58	36.15	37.70	---	38.03	37.73	39.17	60.48	39.05	35.28	35.75	35.96
13	38.59	35.90	38.47	---	44.56	37.53	39.15	60.83	37.65	35.15	36.12	35.91
14	38.00	35.69	49.60	---	46.98	38.67	38.83	60.93	37.37	34.91	36.54	36.31
15	36.70	35.54	53.05	---	44.85	43.30	---	61.03	36.18	34.80	36.62	48.15
16	36.18	35.50	50.58	---	43.91	42.23	---	60.93	35.60	34.70	36.67	53.76
17	35.90	35.40	46.92	---	42.69	39.81	---	60.75	35.35	34.41	36.32	50.41
18	35.65	35.32	45.06	52.58	41.71	38.47	37.64	60.08	35.23	35.06	35.76	46.39
19	35.55	35.08	43.46	51.72	40.98	37.69	36.98	58.67	35.11	35.51	35.54	43.06
20	35.50	35.13	41.26	48.02	40.07	37.29	37.60	56.23	35.10	34.96	35.66	40.75
21	35.44	36.71	39.48	---	38.70	37.06	37.48	52.18	35.25	34.46	35.50	38.92
22	35.40	44.90	38.32	---	38.12	37.06	36.57	50.54	35.68	34.64	35.46	37.60
23	35.39	44.50	37.70	42.30	37.70	36.91	35.97	49.58	36.46	34.71	35.47	36.78
24	35.39	42.14	37.40	47.09	37.44	37.36	35.93	49.04	36.41	34.68	35.29	36.27
25	35.38	40.81	37.20	56.32	37.29	37.20	36.54	48.88	36.07	34.61	35.34	36.01
26	35.38	38.20	36.92	57.81	37.21	37.01	37.48	48.16	35.77	34.36	35.39	35.78
27	35.37	37.15	36.71	57.90	37.01	36.85	38.13	47.48	35.40	34.43	35.44	35.61
28	35.35	36.77	36.60	57.45	36.96	36.75	37.80	46.87	35.00	34.76	35.68	35.57
29	35.48	39.26	36.68	53.92	---	36.67	36.73	46.39	34.84	34.52	37.54	35.59
30	35.53	47.69	37.08	49.40	---	37.05	36.17	46.36	34.74	35.00	40.46	35.71
31	35.50	---	37.15	---	---	37.55	---	46.19	---	35.00	40.73	---
MEAN	36.30	38.16	42.02	---	41.36	38.44	---	51.22	39.22	34.95	35.63	38.99
MAX	38.59	47.69	53.05	57.90	48.75	43.30	39.24	61.03	49.16	36.54	40.73	53.76
MIN	35.35	35.08	36.60	---	36.96	36.67	35.93	35.49	34.74	34.36	33.84	35.57

07369150 BOEUF RIVER NEAR FORT NECESSITY, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°04'15", long 91°55'40", in NW¼ 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.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1978 to current year.

WATER TEMPERATURES: April 1978 to current year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,700 micromhos Aug. 10; minimum daily, 74 micromhos May 9.

WATER TEMPERATURES: Maximum daily, 35.0°C July 18, 19; minimum daily, 20.0°C Apr. 11, 12, May 2, 4, 6, 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM- FLOW, INSTAN- TANECUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHO>)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)
OCT 12...	1600	--	690	8.0	19.0	40	70	--	--	<5	K120	210
NOV 01...	1725	--	1190	7.3	21.5	20	20	9.2	2.0	K20	200	240
DEC 16...	0935	--	216	6.7	11.5	160	300	8.6	5.4	1600	13000	47
JAN 26...	1300	19300	142	6.7	7.0	140	350	11.0	4.9	K600	15000	26
FEB 21...	1100	--	333	6.8	7.0	50	75	10.6	4.8	870	670	48
MAR 16...	1000	--	395	7.2	12.0	150	220	10.4	--	--	K160	81
APR 04...	1040	183	488	7.1	20.0	50	150	7.7	2.7	K60	--	100
MAY 10...	1200	--	71	6.2	24.5	40	500	4.7	3.7	680	1800	28
JUN 14...	1400	1080	227	7.5	29.5	60	210	6.6	3.6	5200	--	72
JUL 25...	1055	.00	1300	8.0	32.0	10	15	9.9	4.3	K240	3200	200
AUG 09...	1005	--	1680	7.7	29.5	30	35	4.9	3.4	K14000	15000	230
SEP 06...	1300	--	715	8.1	30.0	10	15	9.4	5.4	K27	88	180

DATE	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 12...	21	50	20	63	39	1.9	5.1	230	0	189	29	84
NOV 01...	0	60	23	170	60	4.7	5.0	234	0	192	36	280
DEC 16...	1	13	3.6	23	49	1.5	4.4	56	0	46	14	27
JAN 26...	0	6.8	2.2	15	52	1.3	3.1	36	0	30	11	14
FEB 21...	0	13	3.8	47	66	3.0	3.7	65	0	53	27	46
MAR 16...	6	21	6.9	40	50	1.9	4.2	91	0	75	34	41
APR 04...	18	26	9.0	55	53	2.4	3.7	100	0	82	13	86
MAY 10...	10	7.6	2.3	4.9	25	.4	2.7	22	0	18	5.1	6.9
JUN 14...	11	19	6.0	15	30	.8	3.4	75	0	62	14	23
JUL 25...	50	50	19	160	63	4.9	4.4	187	0	153	16	300
AUG 09...	61	57	22	250	70	7.1	4.3	210	0	172	14	410
SEP 06...	32	44	17	71	45	2.3	5.0	180	0	148	25	110

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

RED RIVER BASIN

07369150 BOEUF RIVER NEAR FORT NECESSITY, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 140 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 12...	.2	11	368	376	.50	--	.30	--	--	.84	--	--
NOV 01...	.3	12	--	702	.87	--	.03	--	--	.91	--	--
DEC 16...	.1	6.0	133	119	.18	--	.72	--	--	1.9	--	--
JAN 26...	.1	4.4	85	75	.12	4430	.47	.31	.79	1.1	.00	1.1
FEB 21...	.1	6.1	198	179	.27	--	.34	.58	--	--	--	3.2
MAR 16...	.1	6.8	242	199	.33	--	1.2	.38	1.2	1.6	.20	1.4
APR 04...	.1	8.0	253	250	.34	125	.41	.11	.86	.97	.43	.54
MAY 10...	.1	5.1	58	46	.08	--	1.1	1.1	1.2	2.3	.70	1.6
JUN 14...	.1	8.7	136	126	.19	397	1.5	.32	.48	.80	.23	.57
JUL 25...	.2	11	704	654	.96	.00	.01	.06	1.3	1.4	.79	.61
AUG 09...	.3	11	902	872	1.23	--	.02	.26	1.0	1.3	.55	.75
SEP 06...	.2	12	384	373	.52	--	.10	.08	.88	.96	.25	.71

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDEED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, SUS- PENDEED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDEED (T/DAY)
OCT 12...	1.1	5.0	.24	--	8.1	--	--	--	90	817	--
NOV 01...	.94	4.2	.23	--	--	--	--	32000	65	242	--
DEC 16...	2.6	12	.57	--	--	--	--	--	99	390	--
JAN 26...	1.6	7.0	.60	.11	--	9.8	--	--	96	451	23500
FEB 21...	--	--	.41	.09	28	--	--	--	96	198	--
MAR 16...	2.8	12	.59	.22	23	--	--	960	96	475	--
APR 04...	1.4	6.1	.26	.04	--	9.6	6.4	--	96	249	123
MAY 10...	3.4	15	.61	.02	21	--	--	0	98	742	--
JUN 14...	2.3	10	.42	.05	11	--	--	--	86	324	945
JUL 25...	1.4	6.2	.14	.00	--	7.2	1.7	--	--	--	--
AUG 09...	1.3	5.8	.16	.04	7.0	--	--	--	95	199	--
SEP 06...	1.1	4.7	.14	.08	8.5	--	--	--	93	84	--

07369150 BOEUF RIVER NEAR FORT NECESSITY, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 12...	4	1	3	--	--	--	<10	<10	0	10
JAN 26...	6	4	2	200	200	0	1	1	0	10
APR 04...	3	1	2	200	100	100	2	0	2	0
JUL 25...	4	0	4	400	0	400	1	0	1	10

DATE	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
OCT 12...	0	10	<50	<50	0	<10	<7	3	3100	--
JAN 26...	10	0	2	1	1	27	21	6	18000	--
APR 04...	0	0	5	3	2	8	1	7	4700	--
JUL 25...	10	0	1	0	1	6	1	5	800	740

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 12...	20	<100	<100	0	<10	160	50	.0	.0	.0
JAN 26...	140	5	5	0	440	400	40	.0	.0	.0
APR 04...	80	7	4	3	90	50	40	.1	.0	.1
JUL 25...	60	10	8	2	1100	500	600	.0	.0	.0

DATE	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 12...	0	0	0	--	--	--	30	0	30
JAN 26...	1	1	0	0	0	0	80	70	10
APR 04...	0	0	0	0	0	0	20	10	10
JUL 25...	1	1	0	0	0	0	20	0	20

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

07369150 BOEUF RIVER NEAR FORT NECESSITY, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	1210	313	435	1270	813
2							---	1210	272	---	1300	776
3							---	1540	309	---	1400	---
4							---	1550	---	647	1550	820
5							449	---	169	685	1600	818
6							469	915	220	709	1620	---
7							518	313	138	725	---	---
8							486	180	191	757	---	795
9							468	74	297	771	1660	810
10							471	87	249	641	1700	---
11							431	87	---	775	1640	861
12							389	86	193	---	---	896
13							364	92	221	835	942	896
14							424	---	244	897	901	990
15							440	---	240	---	902	558
16							---	98	243	---	787	240
17							443	---	249	1090	716	---
18							453	135	263	1040	715	---
19							---	163	266	1140	668	---
20							430	147	273	1140	1080	---
21							526	140	305	1170	1070	---
22							592	146	333	---	999	---
23							---	140	---	---	914	327
24							668	144	551	1240	1080	---
25							594	143	321	1270	877	392
26							564	143	299	1240	---	424
27							626	142	325	1200	874	437
28							639	---	384	1000	873	462
29							---	---	392	---	---	526
30							789	294	---	1270	758	531
31							---	335	---	---	963	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	20.5	26.0	30.5	30.0	25.5
2							---	20.0	25.5	---	30.5	30.0
3							---	20.5	25.5	---	30.5	---
4							---	20.0	---	30.5	30.0	30.0
5							20.5	---	25.5	30.5	30.5	30.0
6							20.5	20.0	25.5	30.5	---	---
7							20.5	20.0	25.5	30.5	---	---
8							20.5	20.5	25.5	30.5	---	30.0
9							20.5	20.5	25.5	30.5	30.0	30.0
10							20.5	20.5	25.5	31.0	30.5	---
11							20.0	21.0	---	30.5	30.5	25.5
12							20.0	20.5	26.0	---	---	---
13							20.5	20.5	26.0	30.5	26.0	25.5
14							20.5	---	30.0	30.5	25.5	25.5
15							21.0	---	---	---	30.0	20.5
16							---	20.5	26.0	---	30.0	---
17							20.5	---	30.0	30.5	30.0	---
18							21.0	20.5	30.5	35.0	30.0	---
19							---	21.0	30.0	35.0	30.5	---
20							20.5	26.0	30.5	31.0	30.5	---
21							20.5	25.0	---	30.5	30.5	---
22							20.5	25.5	30.0	---	30.5	---
23							---	25.5	---	---	30.5	25.5
24							20.5	25.5	30.5	30.5	31.0	---
25							20.5	29.0	30.5	30.0	30.5	25.5
26							20.5	26.0	30.5	30.5	---	25.0
27							20.5	26.0	30.5	30.0	30.0	25.0
28							20.5	---	30.5	30.0	30.0	---
29							---	---	26.0	---	---	25.0
30							20.5	26.0	---	30.0	25.5	25.0
31							---	26.0	---	---	25.5	---
MONTH							---	22.5	28.0	---	29.5	---

07369150 BOEUF RIVER NEAR FORT NECESSITY, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

NOV. 1, 1977 1725 HOURS

MAY 10, 1978 1200 HOURS

PHYTOPLANKTON 32,000 CELLS/ML

PHYTOPLANKTON -- NO ORGANISMS REPORTED --

__ORGANISM__ NAME__	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS		0
...SCENEDESMACEAE		
....SCENEDESMUS	1,200	4
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CARTERIA	29,000	92
...VOLVOCAEAE		
....PANDORINA		0
CYANOPHYTA		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENOPSIS		0
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA		0
....TRACHELOMONAS	1,500	5

MAR. 16, 1978 1000 HOURS

PHYTOPLANKTON 960 CELLS/ML

__ORGANISM__ NAME__	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	14	1
....DICTYOSPHAERIUM	55	6
....KIRCHNERIELLA	14	1
....SELENASTRUM	150	16
...SCENEDESMACEAE		
....SCENEDESMUS	110	11
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	96	10
....MELOSIRA	27	3
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	96	10
...GOMPHONEMACEAE		
....GOMPHONEMA	27	3
...NAVICULACEAE		
....NAVICULA	110	11
...NITZSCHACEAE		
....NITZSCHIA	14	1
CYANOPHYTA		
.CYANOPHYCEAE		
..HORMOGONALES		
...NOSTOCACEAE		
....ANABAENA	160	17
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	14	1
....PHACUS	41	4
....TRACHELOMONAS	27	3

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 gage is 50.11 ft (15.274 m) National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.04 ft (3.365 m) May 7; minimum, 1.80 ft (0.549 m) July 10.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.22	2.27	5.00	2.28	4.00	2.10	2.31	2.35	2.30	2.20	2.19	2.24
2	2.21	2.45	3.67	2.23	5.00	2.16	2.33	2.35	2.29	2.20	2.18	2.22
3	2.23	2.33	2.94	2.22	3.40	2.10	2.33	2.54	2.21	2.18	2.17	2.22
4	2.22	2.31	2.59	2.19	2.64	2.10	2.34	2.46	2.16	2.15	2.14	2.20
5	2.22	2.42	2.37	2.18	2.00	2.16	2.34	2.41	---	2.12	2.11	2.18
6	2.22	2.36	2.18	2.17	2.10	2.00	2.36	2.38	---	1.98	2.10	2.18
7	2.22	2.34	2.12	2.18	2.00	2.27	2.35	10.20	2.10	1.92	2.10	2.18
8	2.23	2.32	2.18	2.42	2.00	2.43	2.36	10.51	2.30	1.88	2.09	2.17
9	2.28	2.47	2.55	2.31	1.90	2.36	2.36	10.42	2.18	1.84	2.08	2.17
10	2.31	2.49	2.51	2.26	1.90	2.31	2.36	9.83	2.12	1.80	2.08	2.17
11	2.32	2.41	2.39	2.22	1.90	2.30	2.40	9.20	2.08	1.85	2.12	2.16
12	2.28	2.38	2.34	2.38	2.00	2.73	2.39	9.50	2.10	1.91	2.22	2.15
13	2.26	2.36	2.32	2.88	7.10	2.54	2.38	9.84	2.08	1.94	2.20	2.15
14	2.26	2.35	6.62	2.59	4.80	2.43	2.37	8.74	2.08	1.96	2.20	2.15
15	2.25	2.34	4.55	2.40	3.00	2.35	2.37	7.02	2.08	2.00	2.20	2.15
16	2.26	2.34	3.05	2.34	2.40	2.29	2.38	4.99	2.08	2.01	2.19	2.14
17	2.24	2.31	2.69	4.71	2.00	2.28	2.38	3.28	2.08	2.01	2.19	2.14
18	2.25	2.32	2.58	3.36	2.10	2.26	2.56	2.27	2.08	1.98	2.19	2.13
19	2.25	2.32	2.31	2.72	2.10	2.27	2.42	2.09	2.10	1.97	2.18	2.13
20	2.25	2.35	2.16	2.50	2.00	2.27	2.36	2.03	2.40	1.95	2.18	2.14
21	2.25	2.55	2.13	2.43	2.07	2.27	2.34	2.02	2.32	1.94	2.18	2.15
22	2.25	3.19	2.12	2.52	2.00	2.26	2.34	2.08	2.25	2.08	2.18	2.15
23	2.25	2.59	2.15	3.04	2.04	2.27	2.38	2.09	2.60	2.15	2.17	2.14
24	2.27	2.43	2.17	6.30	2.00	2.73	2.37	2.15	2.41	2.16	2.17	2.14
25	2.27	2.38	2.14	7.81	2.04	2.67	2.41	2.16	2.30	2.16	2.16	2.14
26	2.28	2.35	2.16	7.16	2.10	2.47	2.39	2.18	2.23	2.15	2.16	2.13
27	2.27	2.35	2.16	5.00	2.10	2.38	2.37	2.20	2.23	2.20	2.16	2.12
28	2.27	2.31	2.15	3.00	2.18	2.33	2.36	2.22	2.22	2.26	2.15	2.13
29	2.27	2.40	2.19	3.00	---	2.30	2.36	2.23	2.21	2.22	3.72	2.12
30	2.27	5.22	2.31	2.00	---	2.28	2.36	2.27	2.20	2.20	3.40	2.13
31	2.28	---	2.32	2.00	---	2.28	---	2.44	---	2.19	2.81	---
MEAN	2.26	2.50	2.68	3.06	2.60	2.32	2.37	4.47	---	2.05	2.27	2.16
MAX	2.32	5.22	6.62	7.81	7.10	2.73	2.56	10.51	2.60	2.26	3.72	2.24
MIN	2.21	2.27	2.12	2.00	1.90	2.00	2.31	2.02	2.08	1.80	2.08	2.12

RED RIVER BASIN

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07369365 BUSHLEY BAYOU NEAR HARRISONBURG, LA

LOCATION.--Lat 31°44'36", long 91°49'41", in SE 1/4 sec.23, T.9 N., R.6 E., Catahoula Parish, Hydrologic Unit 08040207, near right bank on downstream side of bridge on State Highway 124, 2.2 mi (3.5 km) south of Harrisonburg.

DRAINAGE AREA.--Indeterminate.

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

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

REMARKS.--Bushley Bayou, a former tributary of the Ouachita River, is now separated from that river by a dam at north end of the Lake thus formed. Outflow from the lake drains by way of Bushley Bayou into Catahoula Lake through an overflow channel with a controlled grade with invert starting elevation at about 41 ft (12 m).

EXTREMES FOR CURRENT YEAR.--Maximum elevation November to September, 47.69 ft (14.536 m) Jan. 25; minimum, 40.56 ft (12.363 m) Sept. 27, 28, 30.

ELEVATION, IN FEET NGVD, NOVEMBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			46.30	41.83	44.52	41.74	41.30	---	43.63	41.05	40.69	40.80
2			46.03	41.76	44.98	41.70	41.27	---	43.91	41.02	40.68	40.79
3			45.43	41.72	44.75	41.66	41.25	---	43.92	40.99	40.67	40.78
4			44.86	41.68	44.32	41.62	41.18	---	43.60	40.97	40.65	40.77
5			44.35	41.64	43.90	41.57	41.17	---	43.27	40.96	40.63	40.76
6			43.86	41.61	43.51	41.53	41.14	---	42.98	40.94	40.63	40.74
7			43.45	41.59	43.20	41.51	41.13	---	42.89	40.90	40.62	40.73
8			43.11	41.59	42.96	41.60	41.10	---	44.05	40.90	40.60	40.72
9			42.90	41.53	42.73	41.58	41.09	---	43.89	40.88	40.60	40.70
10			42.67	41.50	42.55	41.55	41.08	---	43.50	40.86	40.59	40.69
11			42.46	41.46	42.39	41.52	41.09	44.71	43.14	40.84	40.60	40.71
12			42.31	41.46	42.25	41.49	41.08	44.45	42.87	40.82	40.60	40.71
13			42.18	41.45	43.50	41.46	41.06	44.07	42.62	40.80	40.59	40.73
14			43.14	41.42	44.05	41.46	41.04	---	42.38	40.79	40.72	40.73
15			43.23	41.39	43.86	41.44	41.01	---	42.22	40.77	40.71	40.72
16			43.08	41.37	43.51	41.40	41.02	42.94	42.06	40.77	40.71	40.72
17			42.91	42.00	43.20	41.36	41.00	42.75	41.92	40.75	40.70	40.71
18			42.73	42.01	42.95	41.33	41.03	43.54	41.82	40.74	40.69	40.70
19			42.58	42.09	42.74	41.31	41.00	43.55	41.71	40.71	40.68	40.69
20			42.48	42.09	42.55	41.28	40.99	43.34	41.63	40.71	40.66	40.67
21			42.38	42.07	42.39	41.27	40.96	43.16	41.55	40.69	40.69	40.66
22			42.30	42.09	42.25	41.25	40.96	43.02	41.47	40.71	40.68	40.64
23			42.20	42.12	42.13	41.24	40.95	42.91	41.40	40.68	40.67	40.62
24		41.41	42.12	43.14	42.02	41.42	40.92	42.80	41.34	40.75	40.66	40.61
25		41.38	42.02	47.02	41.95	41.53	40.95	42.68	41.28	40.74	40.65	40.59
26		41.35	41.96	47.64	41.88	41.51	40.94	42.54	41.23	40.73	40.64	40.58
27		41.32	41.87	47.04	41.81	41.47	40.92	42.39	41.17	40.73	40.62	40.57
28		42.54	41.80	46.18	41.79	41.43	40.91	42.23	41.13	40.73	40.61	40.57
29		42.80	41.77	45.41	---	41.40	40.90	44.20	41.09	40.72	40.84	40.57
30		45.11	41.91	44.78	---	41.36	40.91	44.39	41.05	40.71	40.84	40.57
31		---	41.88	44.32	---	41.33	---	44.04	---	40.70	40.82	---
MEAN		---	42.98	42.74	43.02	41.46	41.05	---	42.36	40.81	40.67	40.69
MAX		---	46.30	47.64	44.98	41.74	41.30	44.71	44.05	41.05	40.84	40.80
MIN		---	41.77	41.37	41.79	41.24	40.90	---	41.05	40.68	40.59	40.57

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.--Water years 1962, 1969, 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	CULI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)
NOV 02...	1325	.5	230	7.6	20.0	5	8	6.9	1.3	<5	K300	84
FEB 22...	1220	.5	197	7.4	5.0	10	9	12.2	3.8	<5	--	85
APR 05...	1135	.5	211	8.2	18.0	5	4	9.0	2.8	K40	--	93
JUL 26...	1040	.5	172	3.6	31.5	5	3	9.7	1.5	<5	4400	62

DATE	HARD- NESS, NONCAR- BONATE, DIS- (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS C03)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 02...	0	21	7.7	10	20	.5	4.2	118	0	97	2.2
FEB 22...	0	22	7.2	7.7	16	.4	3.5	110	0	90	4.1
APR 05...	0	25	7.4	7.9	15	.4	4.1	116	0	95	8.9
JUL 26...	0	14	6.6	7.3	19	.4	4.0	77	6	73	1.8

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	PHOS- PHORUS, TOTAL (MG/L AS P)
NOV 02...	3.8	--	--	--	--	--	--	--	--	--	--
FEB 22...	4.6	.1	.9	--	104	.14	--	.58	.64	--	--
APR 05...	5.1	.1	.4	--	116	.14	.00	.52	.52	2.3	.05
JUL 26...	4.7	.1	3.2	85	86	.12	.00	1.0	1.0	4.4	.06

DATE	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 02...	.0	--	.00	.00	--	.0	.00	--	.01	--	.00	--
JUL 26...	--	4	--	--	.0	--	--	14	--	72	--	5.2

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

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

RED RIVER BASIN

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07369370 LAKE PROVIDENCE AT LAKE PROVIDENCE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	DI-AZINON, TOTAL (UG/L)	DI-AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI-ELDRIN, TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)
NOV 02...	.00	--	.00	--	.00	--	.00	--	.00	--	.00
JUL 26...	--	.0	--	.0	--	.4	--	.0	--	.0	--

DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL THION, TOTAL (UG/L)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 02...	--	.00	.00	--	.00	--	.00	--	.00	.00	--
JUL 26...	.2	--	--	.0	--	.0	--	.0	--	--	.0

DATE	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 02...	0	--	.00	--	.01	.08	.00
JUL 26...	--	0	--	.0	--	--	--

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV 02...	1325	.5	230	7.6	20.0	6.9
FEB 22...	1220	.5	197	7.4	50.0	12.2
FEB 22...	1226	20	172	8.3	4.5	12.0
APR 05...	1135	.5	211	8.2	18.0	9.0
APR 05...	1137	15	235	7.4	18.0	8.0
JUL 26...	1032	5.0	175	9.0	30.0	10.8
JUL 26...	1033	10	180	8.7	29.0	7.8
JUL 26...	1034	15	180	7.7	28.5	3.0
JUL 26...	1040	.5	172	3.6	31.5	9.7

RED RIVER BASIN

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 (elections only).

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

REMARKS.--Reservoir is formed by earthfill dam on Brushy Bayou. Reservoir elevations are regulated by a drop inlet structure with crest elevation controlled by movable stop logs. The elevation can vary from 62.0 to 75.0 ft (18.90 to 22.86 m) by use of the stop logs. Reservoir is used for flood control and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 75.53 ft (23.022 m) Dec. 2,3, 1977, minimum, 69.57 ft (21.205 m) Oct. 20, 1975 (regulated).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 75.53 ft (23.022 m) Dec. 2, 3; minimum, 71.40 ft (21.763 m) Feb. 28 (regulated).

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.68	71.89	75.52	75.20	---	72.11	72.64	72.01	74.47	72.77	72.37	72.41
2	71.95	72.17	75.53	75.16	---	72.54	72.58	72.05	74.15	72.72	72.34	72.38
3	71.98	72.75	75.53	75.15	---	72.62	72.51	72.18	74.02	72.66	72.30	72.35
4	71.97	72.97	75.52	---	74.85	72.62	72.44	72.33	73.92	72.62	72.27	72.33
5	71.96	73.24	75.51	---	74.83	72.60	72.37	72.45	73.81	72.57	72.23	72.29
6	71.95	73.41	75.47	---	74.80	72.55	72.30	72.51	73.70	72.52	72.20	72.26
7	71.94	73.49	75.46	---	74.69	72.52	72.23	73.63	73.60	72.48	72.17	72.24
8	71.93	73.55	75.44	---	74.64	72.51	72.17	74.46	73.59	72.44	72.14	72.21
9	72.20	74.01	75.45	---	74.57	72.49	72.12	74.93	73.48	72.41	72.11	72.19
10	72.20	74.05	75.41	---	74.51	72.49	72.06	74.89	73.37	72.38	72.10	72.16
11	72.21	74.05	75.39	---	74.45	72.47	72.07	74.92	73.23	72.34	72.07	72.13
12	72.20	74.06	75.36	---	74.37	72.50	72.07	75.14	73.10	72.31	72.04	72.11
13	72.19	74.09	75.34	---	74.50	72.48	72.06	75.23	72.95	72.28	72.01	72.11
14	72.18	74.11	75.46	---	74.45	73.00	72.04	75.16	72.74	72.25	72.16	72.13
15	72.17	74.13	75.44	---	74.40	73.21	72.01	75.14	72.46	72.34	72.15	72.27
16	72.17	74.14	75.43	---	74.20	73.29	71.98	75.17	72.08	72.38	72.13	72.24
17	72.12	74.14	75.45	---	74.02	73.33	71.95	75.17	72.52	72.40	72.10	72.23
18	72.05	74.15	75.41	---	73.85	73.33	71.96	75.07	72.85	72.42	72.07	72.21
19	72.00	74.16	75.42	---	73.68	73.30	71.92	74.97	73.01	72.43	72.04	72.18
20	71.96	74.18	75.39	---	73.51	73.27	71.90	74.79	73.27	72.45	72.01	72.15
21	71.93	74.76	75.37	---	73.29	73.22	71.87	74.72	73.38	72.46	71.99	72.12
22	71.91	75.09	75.35	---	73.09	73.17	71.85	74.61	73.39	72.46	71.96	72.08
23	71.89	75.13	75.33	---	72.85	73.11	71.82	74.16	73.35	72.48	71.93	72.06
24	71.88	75.15	75.31	---	72.59	73.13	71.82	73.86	73.28	72.45	71.90	72.03
25	71.96	75.19	75.28	---	72.32	73.06	71.87	73.51	73.20	72.42	71.87	72.00
26	71.95	75.20	75.26	74.67	72.08	73.00	71.85	73.08	73.10	72.39	71.84	71.98
27	71.94	75.22	75.24	74.75	71.79	72.95	71.84	72.57	73.01	72.62	71.81	71.96
28	71.92	75.29	75.22	---	71.51	72.89	71.83	71.98	72.91	72.55	71.79	71.94
29	71.91	75.23	75.22	---	---	72.82	71.89	71.46	72.82	72.50	72.46	71.93
30	71.90	75.52	75.23	---	---	72.76	71.93	73.75	72.74	72.46	72.45	71.91
31	71.89	---	75.21	---	---	72.68	---	74.36	---	72.41	72.44	---
MEAN	72.00	74.15	75.39	---	---	72.84	72.07	73.88	73.25	72.46	72.11	72.15
MAX	72.21	75.52	75.53	75.20	---	73.33	72.64	75.23	74.47	72.77	72.46	72.41
MIN	71.68	71.89	75.21	---	71.51	72.11	71.82	71.46	72.08	72.25	71.79	71.91

RED RIVER BASIN

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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 National Geodetic Vertical Datum of 1929.

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, 72.75 ft (22.174 m) May 9; minimum, 65.04 ft (19.824 m) June 28, 29.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.46	66.03	69.58	65.70	68.00	65.30	65.64	66.13	67.78	65.38	65.75	65.43
2	66.77	66.81	69.27	65.53	68.08	65.31	65.68	66.17	67.79	65.28	65.76	65.63
3	66.35	67.37	68.90	65.40	67.75	65.35	65.68	66.33	67.47	65.29	65.77	65.82
4	66.34	67.12	68.47	65.28	67.27	65.33	65.68	66.19	66.98	65.45	65.81	65.93
5	66.45	67.32	68.07	65.33	66.56	65.33	65.69	65.88	66.40	65.26	65.91	65.99
6	66.49	67.01	67.60	66.22	66.12	65.34	65.82	65.61	65.87	65.25	65.76	66.03
7	66.54	66.64	67.05	66.19	66.00	65.38	65.64	69.84	65.65	65.34	65.74	66.06
8	66.55	66.24	66.40	66.17	65.85	65.70	65.65	70.70	65.90	65.36	65.79	66.11
9	66.90	67.95	66.57	66.37	65.81	65.58	65.58	72.75	65.66	65.42	65.83	66.14
10	66.70	67.25	66.23	66.14	65.74	65.50	65.56	72.55	65.49	65.45	65.84	66.17
11	66.39	66.93	65.86	65.83	65.69	65.44	65.70	72.35	65.40	65.54	65.87	66.18
12	66.55	66.52	65.67	65.77	65.65	65.67	65.63	72.52	65.35	65.56	65.90	66.20
13	66.28	66.04	65.48	66.56	67.35	65.56	65.62	72.69	65.30	65.57	65.90	66.21
14	65.98	65.57	68.47	66.30	66.88	68.71	65.69	72.63	65.27	65.60	65.96	66.25
15	65.82	65.27	68.02	65.93	66.33	67.82	65.74	72.34	65.27	65.64	65.95	66.28
16	65.84	65.39	67.72	65.70	66.08	67.52	65.85	72.00	65.32	65.65	65.94	66.12
17	65.95	65.61	67.56	67.29	65.92	67.05	65.90	71.71	65.27	65.65	65.94	66.13
18	65.94	65.74	66.96	66.98	65.85	66.24	65.96	71.20	65.39	65.66	65.99	66.14
19	65.97	65.80	66.26	66.45	65.77	65.72	65.92	70.62	66.60	65.68	65.96	65.36
20	65.96	65.87	65.81	66.02	65.73	65.51	65.94	70.04	67.33	65.69	65.93	65.44
21	66.01	68.43	65.55	---	65.70	65.38	66.00	69.48	67.02	65.71	65.91	65.59
22	66.05	68.64	65.49	---	65.66	65.39	66.01	68.94	66.39	65.72	65.93	65.74
23	66.03	68.39	65.43	---	65.65	65.40	66.02	68.48	65.65	65.76	65.92	65.86
24	66.02	68.13	65.41	---	65.61	65.58	66.01	68.10	65.26	65.82	65.93	65.96
25	66.08	67.75	65.37	---	65.54	65.65	66.16	67.71	65.14	65.83	65.93	66.01
26	66.07	67.39	65.28	69.24	65.47	65.60	66.04	67.23	65.07	65.80	65.94	66.03
27	66.03	66.95	65.22	68.82	65.41	65.56	65.95	66.85	65.06	66.02	65.96	66.04
28	66.02	67.23	65.42	68.42	65.39	65.54	65.97	66.63	65.04	65.70	65.95	66.10
29	66.00	67.50	65.51	67.99	---	65.54	66.07	67.09	65.12	65.69	66.47	66.12
30	66.00	69.29	66.26	67.54	---	65.59	66.08	66.05	65.16	65.70	65.87	66.14
31	66.02	---	65.98	67.16	---	65.62	---	67.56	---	65.73	65.54	---
MEAN	66.21	66.94	66.67	---	66.17	65.81	65.83	69.17	65.88	65.59	65.89	65.97
MAX	66.90	69.29	69.58	---	68.08	68.71	66.16	72.75	67.79	66.02	66.47	66.28
MIN	65.82	65.27	65.22	65.28	65.39	65.30	65.56	65.61	65.04	65.25	65.54	65.36

RED RIVER BASIN

07369468 PANOLA BAYOU AT TALLULAH, LA

LOCATION.--Lat 32°25'02", long 91°12'24", in SW¼NE¼ sec.35, T.17 N., R.12 E., Madison Parish, Hydrologic Unit 08050003, at bridge on U.S. Highway 80, 1.9 mi (3.1 km) upstream from flood gates on Roundaway Bayou, 0.4 mi (0.6 km) upstream from Illinois Central Railroad, and 0.2 mi (0.3 km) northwest of Tallulah.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--November 1977 to September 1978.

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

EXTREMES FOR CURRENT YEAR.--Maximum elevation during period November 1977 to September 1978, 74.72 ft (22.775 m) May 8; minimum, 61.94 ft (18.879 m) Aug. 21, 22 (regulated).

ELEVATION, IN FEET NGVD, NOVEMBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	68.96	62.64		---	62.29	62.22	62.92	62.19	62.03	62.27
2		---	68.27	62.51		---	62.29	62.21	62.73	62.18	62.04	62.15
3		---	67.58	62.45		---	62.25	62.66	62.60	62.16	62.04	62.10
4		---	66.79	62.40		---	62.25	63.06	62.53	62.24	62.03	62.07
5		---	65.94	62.40		---	62.23	62.70	62.49	62.15	62.04	62.05
6		---	64.98	62.38		---	62.20	62.43	62.47	62.19	62.05	62.04
7		---	63.90	62.38		---	62.22	71.76	62.42	62.15	62.02	61.99
8		---	62.93	62.41		62.72	62.20	71.45	62.74	62.16	62.04	62.01
9		---	63.02	62.71		62.56	62.23	73.16	62.58	62.12	62.04	61.99
10		---	62.87	62.65		62.50	62.19	72.46	62.46	62.12	62.00	62.01
11		---	62.59	62.48		62.48	62.34	72.21	62.42	62.10	61.99	61.99
12		---	62.46	62.70		63.64	62.24	72.81	62.41	62.11	62.00	61.99
13		---	62.42	63.75		62.94	62.24	73.13	62.36	62.13	61.98	62.09
14		---	67.38	63.04		67.94	62.20	72.42	62.33	62.09	62.13	62.13
15		---	65.83	62.73		64.50	62.19	72.07	62.34	62.49	62.04	65.71
16		---	65.25	62.62		63.43	62.17	71.63	62.30	62.17	62.11	62.63
17		---	65.04	65.53		63.01	62.16	71.27	62.32	62.07	62.03	62.15
18		---	64.29	63.54		62.80	62.23	70.62	62.31	62.09	62.00	62.06
19		---	63.35	63.10		62.67	62.21	69.88	62.60	62.09	62.01	62.07
20		---	62.91	62.94		62.57	62.17	69.10	64.23	62.09	61.99	62.01
21		---	62.72	62.86		62.51	62.15	68.32	63.09	62.07	61.98	62.04
22		---	62.63	63.05		62.46	62.14	67.46	62.77	62.12	61.95	61.98
23		66.51	62.58	64.12		62.43	62.18	66.58	62.61	62.11	61.97	61.98
24		65.63	62.56	69.22		62.86	62.18	65.60	62.48	62.07	61.97	62.00
25		64.72	62.52	68.35		62.67	62.54	64.57	62.39	62.08	61.99	61.98
26		74	62.47	68.52		62.56	62.25	63.52	62.31	62.04	61.99	61.99
27		64.00	62.45	---		62.48	62.17	62.89	62.26	63.38	61.99	61.99
28		64.04	62.39	---		62.43	62.17	62.71	62.24	62.23	61.97	62.01
29		65.10	62.38	---		62.37	62.16	62.67	62.19	62.09	63.23	62.00
30		70.31	62.93	---		62.36	62.17	62.68	62.20	62.07	64.02	61.98
31		---	62.77	---		62.28	---	63.55	---	62.04	62.58	---
MEAN		---	64.04	---		---	62.22	67.41	62.54	62.17	62.14	62.18
MAX		70.31	68.96	---		---	62.54	73.16	64.23	63.38	64.02	65.71
MIN		---	62.38	62.38		62.28	62.14	62.21	62.19	62.04	61.95	61.98

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) National Geodetic Vertical Datum of 1929. 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) National Geodetic Vertical Datum of 1929. 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.--42 years (1936-78), 327 ft³/s (9.26 m³/s), 236,900 acre-ft/yr (292 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, 3,260 ft³/s (92.3 m³/s) May 10; maximum gage height, 23.62 ft (7.199 m) May 10; minimum discharge, 10 ft³/s (0.28 m³/s) Oct. 7, gage height, 5.65 ft (1.722 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	2130	58	932	46	32	42	600	31	31	41
2	18	25	1900	49	1140	47	31	38	495	31	28	35
3	17	66	1480	42	904	47	32	48	453	31	26	30
4	15	142	1130	36	703	44	30	67	379	78	23	27
5	14	152	897	31	547	42	29	93	306	127	22	24
6	13	142	726	29	443	41	30	100	228	91	23	21
7	11	120	650	28	369	50	30	500	178	56	24	19
8	17	91	600	29	306	75	30	2000	153	40	23	17
9	29	97	550	28	232	86	29	3000	155	38	23	16
10	30	125	484	30	185	74	28	3260	182	51	23	14
11	33	117	394	30	145	61	30	3070	187	51	22	13
12	26	90	306	37	127	55	30	2990	184	44	22	14
13	21	62	344	139	578	48	32	3200	164	37	22	15
14	18	44	1000	236	792	45	32	3090	16	33	22	19
15	16	35	1200	201	599	44	31	2840	120	31	21	36
16	15	30	1000	162	469	42	29	2560	99	42	19	110
17	13	28	800	562	386	42	28	2290	76	43	19	149
18	12	24	600	752	321	40	29	2070	59	37	18	111
19	12	22	461	578	257	38	29	1770	60	33	16	70
20	11	21	369	450	204	36	28	1420	54	30	15	42
21	11	190	303	343	163	37	27	1180	47	28	16	30
22	11	1270	213	282	131	40	26	989	61	26	15	23
23	11	1290	152	282	106	39	28	781	108	27	17	19
24	11	997	114	769	85	40	29	700	84	29	17	15
25	12	759	83	1910	68	42	40	650	62	32	16	13
26	12	592	58	1920	54	40	75	600	49	29	14	12
27	11	506	44	1660	47	40	93	500	42	29	13	12
28	11	475	36	1240	46	38	86	400	37	39	14	12
29	11	842	36	984	---	36	68	500	33	43	29	11
30	11	1850	44	789	---	34	52	600	34	38	39	11
31	11	---	57	705	---	33	---	700	---	34	40	---
TOTAL	478	10219	18161	14391	10339	1422	1123	42048	4850	1309	672	981
MEAN	15.4	341	586	464	369	45.9	37.4	1356	162	42.2	21.7	32.7
MAX	33	1850	2130	1920	1140	86	93	3260	600	127	40	149
MIN	11	15	36	28	46	33	26	38	33	26	13	11
CFSM	.05	1.10	1.90	1.50	1.19	.15	.12	4.39	.52	.14	.07	.11
IN.	.06	1.23	2.19	1.73	1.24	.17	.14	5.06	.58	.16	.08	.12
AC-FT	948	20270	36020	28540	20510	2820	2230	83400	9620	2600	1330	1950
CAL YR 1977	TOTAL	98710	MEAN 270	MAX 3500	MIN 11	CFSM .87	IN 11.88	AC-FT 195800				
WTR YR 1978	TOTAL	105993	MEAN 290	MAX 3260	MIN 11	CFSM .94	IN 12.76	AC-FT 210200				

RED RIVER BASIN

07369500 TENSAS RIVER AT TENDAL, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.71	5.73	18.18	6.34	13.59	6.15	5.89	5.98	11.34	5.95	5.96	6.10
2	5.77	5.87	17.95	6.22	14.78	6.16	5.88	5.91	10.22	5.95	5.92	6.01
3	5.76	6.45	16.78	6.11	14.01	6.16	5.88	6.06	9.79	5.95	5.88	5.94
4	5.73	7.38	15.49	6.03	12.81	6.12	5.86	6.32	9.22	6.59	5.85	5.90
5	5.71	7.49	14.31	5.96	11.55	6.09	5.84	6.66	8.60	7.21	5.82	5.85
6	5.70	7.38	13.18	5.93	10.40	6.07	5.86	6.75	8.08	6.77	5.84	5.82
7	5.67	7.13	12.13	5.91	9.47	6.20	5.86	12.74	7.71	6.32	5.86	5.78
8	5.76	6.77	11.18	5.93	8.75	6.54	5.84	20.84	7.49	6.09	5.85	5.76
9	5.93	6.84	10.35	5.92	8.20	6.68	5.83	23.44	7.51	6.06	5.85	5.74
10	5.94	7.19	9.79	5.95	7.76	6.53	5.82	23.58	7.74	6.24	5.84	5.71
11	5.98	7.10	9.19	5.94	7.41	6.35	5.85	23.31	7.78	6.24	5.83	5.70
12	5.89	6.75	8.60	6.04	7.21	6.26	5.84	23.20	7.75	6.14	5.83	5.71
13	5.82	6.40	8.85	7.34	10.43	6.14	5.86	23.56	7.59	6.04	5.83	5.73
14	5.77	6.15	13.30	8.13	12.17	6.12	5.86	23.41	7.37	5.98	5.83	5.78
15	5.74	6.02	14.37	7.88	11.38	6.10	5.85	23.00	7.13	5.96	5.82	6.03
16	5.73	5.95	13.41	7.59	10.33	6.07	5.82	22.35	6.87	6.11	5.79	7.00
17	5.70	5.91	12.26	10.29	9.46	6.06	5.79	21.54	6.59	6.12	5.79	7.44
18	5.69	5.85	11.25	11.84	8.85	6.04	5.81	20.58	6.36	6.05	5.77	7.02
19	5.68	5.83	10.26	10.98	8.38	6.00	5.81	19.49	6.37	5.99	5.74	6.50
20	5.67	5.81	9.36	9.88	7.97	5.97	5.80	18.31	6.28	5.94	5.73	6.12
21	5.67	7.80	8.58	9.00	7.59	5.98	5.78	17.15	6.19	5.91	5.74	5.94
22	5.66	13.78	7.97	8.44	7.26	6.02	5.76	16.07	6.39	5.89	5.73	5.84
23	5.66	14.82	7.48	8.56	6.97	6.01	5.78	14.99	6.99	5.90	5.75	5.78
24	5.67	13.93	7.06	11.61	6.70	6.03	5.80	13.89	6.69	5.92	5.76	5.73
25	5.68	12.67	6.68	17.08	6.47	6.04	5.96	12.75	6.40	5.97	5.74	5.70
26	5.68	11.47	6.34	17.95	6.28	6.02	6.44	11.65	6.21	5.92	5.71	5.69
27	5.67	10.51	6.14	17.36	6.18	6.01	6.66	10.58	6.12	5.92	5.69	5.68
28	5.67	10.06	6.03	16.14	6.16	5.98	6.57	9.78	6.04	6.07	5.71	5.68
29	5.67	11.96	6.03	14.97	---	5.95	6.35	12.23	5.99	6.13	5.93	5.67
30	5.67	16.57	6.15	13.78	---	5.92	6.12	13.42	5.96	6.06	6.06	5.67
31	5.67	---	6.33	12.88	---	5.90	---	12.67	---	6.00	6.08	---
MEAN	5.73	8.45	10.48	9.48	9.23	6.12	5.94	15.56	7.36	6.11	5.82	5.97
MAX	5.98	16.57	18.18	17.95	14.78	6.68	6.66	23.58	11.34	7.21	6.08	7.44
MIN	5.66	5.73	6.03	5.91	6.16	5.90	5.76	5.91	5.96	5.89	5.69	5.67

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 0°C to 36.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 751 micromhos Nov. 1, 1967; minimum, 42 micromhos May 29, 1978.

WATER TEMPERATURES: Maximum, higher than 36.5°C Aug. 10, Sep. 1, 1977; minimum daily, 2.0°C Feb. 10, 1978.

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, 648 micromhos Sep. 8; minimum, 42 micromhos May 29.

WATER TEMPERATURES: Maximum, 35.5°C July 21; minimum, 2.0°C Feb. 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)
OCT 12...	1440	26	600	8.2	18.5	5	30	--	--	<5	K80	230
NOV 01...	0930	12	610	7.6	19.0	15	25	7.0	2.0	<5	1600	240
DEC 15...	1650	1200	103	6.5	12.0	110	420	8.0	6.2	1700	K50000	37
JAN 26...	0930	1190	78	6.2	8.0	80	340	10.1	5.6	K300	>60000	28
FEB 22...	0845	134	201	6.8	5.5	60	95	11.0	2.9	K100	290	83
MAR 15...	1700	45	380	7.2	16.5	10	45	8.8	--	--	K70	150
APR 05...	0840	32	527	7.6	21.5	10	20	9.5	4.1	<5	<5	230
MAY 09...	1800	E3250	93	6.5	23.0	120	420	6.7	6.1	720	10000	37
JUN 13...	2030	157	191	7.1	26.0	30	300	5.1	4.4	K70	540	78
JUL 26...	0745	28	457	7.5	29.5	15	15	4.1	1.3	--	1000	180
AUG 08...	1700	24	504	7.8	30.5	15	20	8.4	5.7	--	8400	200
SEP 06...	1715	21	683	7.8	30.0	20	15	10.0	7.4	<5	K20	200
DATE		HARD- NESS, NONCAR- BONATE, DIS. (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AU- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 12...	0	60	20	43	28	1.2	4.0	342	0	281	8.8	29
NOV 01...	0	62	21	37	25	1.0	3.6	337	0	276	6.5	28
DEC 15...	2	9.9	3.0	2.7	12	.2	4.1	43	0	35	5.6	3.1
JAN 26...	2	7.6	2.1	1.8	11	.2	3.2	32	0	26	5.8	2.4
FEB 22...	0	22	6.7	7.8	16	.4	3.4	104	0	85	11	5.8
MAR 15...	0	38	13	15	18	.5	4.1	190	0	156	16	12
APR 05...	0	59	19	25	19	.7	4.3	296	0	240	18	21
MAY 09...	12	9.4	3.3	4.3	18	.3	3.5	30	0	25	11	4.0
JUN 13...	0	21	6.3	7.5	16	.4	3.6	99	0	81	6.1	4.3
JUL 26...	0	47	16	27	24	.9	4.4	257	0	211	7.4	19
AUG 08...	0	51	18	33	26	1.0	4.6	280	0	230	11	22
SEP 06...	0	50	18	72	43	2.2	5.2	390	0	320	7.8	30

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

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

RED RIVER BASIN

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 100 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 12...	.3	17	--	351	.45	24.6	.01	--	--	.75	--	--
NOV 01...	.3	18	338	342	.46	11.0	.03	--	--	.52	--	--
DEC 15...	.1	6.5	69	56	.09	224	.99	--	--	2.1	--	--
JAN 26...	.1	4.6	45	43	.06	145	.55	.34	.76	1.1	.00	1.1
FEB 22...	.1	7.8	--	116	.14	42.0	.56	.23	--	--	--	1.6
MAR 15...	.1	11	207	203	.28	25.2	.37	.04	.94	.98	.61	.37
APR 05...	.2	11	--	304	.38	26.3	.01	.10	.72	.82	.53	.29
MAY 09...	.1	8.7	76	59	.10	--	2.7	1.4	1.1	2.5	.20	2.3
JUN 13...	.1	9.5	114	107	.16	48.3	.94	.46	1.0	1.5	.74	.76
JUL 26...	.2	15	269	263	.37	20.3	.02	.07	.86	.93	.36	.57
AUG 08...	.2	17	295	295	.40	19.1	.02	.07	.82	.89	.04	.85
SEP 06...	.5	18	393	394	.53	22.3	.01	.01	1.5	1.5	.57	.93

DATE	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 12...	.76	3.4	.18	--	4.9	--	--	--	78	90	6.3
NOV 01...	.55	2.4	.18	--	--	--	--	3700	99	1540	50
DEC 15...	3.1	14	.77	--	--	--	--	--	91	280	907
JAN 26...	1.7	7.3	.55	.15	--	8.2	--	--	97	364	1170
FEB 22...	--	--	.54	.10	11	--	--	--	98	253	92
MAR 15...	1.4	6.0	.27	.17	6.7	--	--	8500	88	149	18
APR 05...	.83	3.7	.16	.05	--	6.0	2.0	--	81	99	8.6
MAY 09...	5.2	23	.70	.06	22	--	--	54	99	846	--
JUN 13...	2.4	11	.53	.09	11	--	--	--	96	448	190
JUL 26...	.95	4.2	.14	.05	--	5.8	1.4	--	--	--	--
AUG 08...	.91	4.0	.11	.04	7.8	--	--	--	92	80	5.2
SEP 06...	1.5	6.7	.17	.10	11	--	--	--	82	121	6.9

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 12...	3	1	2	--	--	--	<10	<10	0	5
JAN 26...	6	4	2	200	200	0	2	2	0	10
APR 05...	3	0	3	100	0	100	1	0	1	0
JUL 26...	10	2	8	300	0	300	2	0	2	10

DATE	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
OCT 12...	0	5	<50	<50	0	<10	<8	2	1200	1200
JAN 26...	10	0	1	0	1	24	16	8	14000	14000
APR 05...	0	0	2	2	0	12	0	12	950	930
JUL 26...	10	0	1	0	1	7	3	4	740	690

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)
OCT 12...	10	<100	<100	0	210	50	160	.0	.0	.0
JAN 26...	70	6	4	2	160	160	0	.0	.0	.0
APR 05...	20	5	4	1	280	80	200	.0	.0	.0
JUL 26...	50	6	3	3	280	60	220	.0	.0	.0

DATE	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, SUS- PENDE RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 12...	0	0	0	--	--	--	20	0	20
JAN 26...	0	0	0	0	0	0	110	100	10
APR 05...	0	0	0	0	0	0	10	0	10
JUL 26...	1	1	0	0	0	0	20	0	20

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. 1, 1977...	----	24.1	20.6	--	APR. 28.....	----	26.5	20.8	6.5
DEC. 19.....	----	23.0	12.4	8.4	MAY 10.....	----	30.0	23.0	4.6
JAN. 26, 1978...	----	5.0	--	10.6	JUNE 26.....	----	38.5	30.0	3.0
FEB. 23.....	----	12.0	5.5	11.6	AUG. 31.....	----	33.0	26.0	7.8

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

RED RIVER BASIN

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C)* WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	558	529	580	509	99	45	329	313	131	117	301	282
2	548	499	513	504	120	90	348	314	122	112	317	299
3	536	507	513	478	138	121	365	326	118	107	332	309
4	543	509	472	324	142	128	366	336	122	107	352	324
5	553	514	316	222	142	137	369	338	126	109	354	327
6	558	514	245	218	138	130	365	336	133	121	357	325
7	553	516	263	234	133	128	369	342	138	125	359	333
8	558	526	261	231	141	132	382	355	142	128	373	335
9	551	531	274	260	147	137	397	357	143	135	353	312
10	546	531	284	264	149	141	398	392	143	128	361	328
11	541	506	270	224	158	144	396	385	154	138	347	306
12	524	505	262	225	166	156	391	380	169	148	338	310
13	509	503	272	252	171	162	378	363	174	149	354	328
14	516	505	291	256	171	151	366	280	159	133	374	336
15	519	505	309	286	152	139	284	253	141	132	402	362
16	519	505	319	302	161	142	281	257	154	131	418	372
17	519	479	342	316	187	160	262	226	155	142	422	382
18	514	481	348	319	193	185	224	178	153	137	435	382
19	534	501	356	329	203	181	---	---	157	140	432	406
20	534	521	359	336	200	186	---	---	159	138	458	407
21	536	516	359	302	215	188	---	---	170	148	460	421
22	541	509	268	90	215	197	---	---	174	161	448	422
23	543	511	113	78	227	201	---	---	190	166	471	432
24	556	531	142	110	237	223	---	---	206	192	480	443
25	561	531	191	148	248	224	---	---	239	204	488	460
26	556	509	199	185	263	229	140	121	257	233	505	470
27	556	526	203	193	274	248	131	122	275	249	527	483
28	556	534	196	187	292	259	143	123	291	258	517	489
29	548	516	190	147	302	259	143	130	---	---	540	500
30	567	526	137	101	313	299	143	125	---	---	543	502
31	580	558	---	---	321	312	134	119	---	---	570	516
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	324	301	240	184	386	357	545	506	546	491
2	---	---	339	305	248	221	397	364	512	442	541	509
3	---	---	352	323	240	214	397	372	464	436	558	515
4	---	---	370	327	247	220	428	374	495	442	608	521
5	---	---	408	355	258	238	460	204	467	431	605	553
6	---	---	411	345	193	162	237	200	478	444	614	580
7	---	---	336	160	191	169	275	238	497	456	627	558
8	---	---	166	146	196	182	301	265	514	469	648	589
9	---	---	169	147	232	187	332	281	524	491	639	586
10	---	---	182	169	256	222	382	326	540	498	620	563
11	---	---	188	174	218	130	412	366	547	516	623	563
12	---	---	184	158	169	131	449	404	592	527	620	517
13	---	---	167	154	204	172	498	441	579	531	589	533
14	---	---	164	149	242	199	496	384	575	535	589	523
15	---	---	158	148	277	240	417	384	598	553	548	496
16	---	---	167	149	298	268	382	309	595	561	538	468
17	---	---	---	---	315	276	337	310	595	566	484	236
18	---	---	---	---	333	264	362	335	611	542	262	231
19	---	---	---	---	295	254	388	347	623	586	294	261
20	---	---	---	---	299	244	395	375	617	591	318	272
21	---	---	---	---	270	240	412	387	608	571	314	281
22	---	---	---	---	316	249	404	388	596	569	331	281
23	---	---	---	---	368	318	417	380	599	555	339	296
24	---	---	145	133	357	166	421	394	609	574	356	328
25	---	---	150	144	210	165	440	410	594	553	354	319
26	---	---	161	144	251	196	452	426	587	560	361	334
27	---	---	150	143	330	245	473	425	610	568	361	316
28	429	381	174	145	353	316	493	452	628	580	357	323
29	418	349	183	42	352	316	514	470	625	553	361	331
30	355	308	162	63	367	330	514	485	583	535	382	336
31	---	---	191	156	---	---	536	504	556	468	---	---

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	28.0	26.0	20.5	19.5	10.5	9.5	8.0	7.5	4.5	3.5	11.0	10.0
2	27.0	25.0	19.5	18.5	11.5	10.5	7.5	6.5	3.5	2.5	10.5	10.0
3	24.5	23.0	19.0	18.0	12.0	11.0	6.5	5.5	3.5	2.5	10.5	8.5
4	26.0	22.0	17.5	16.5	13.5	12.0	6.5	5.0	4.0	3.5	8.5	7.0
5	24.0	22.0	17.5	16.5	14.0	13.5	9.0	6.5	4.5	4.0	8.0	6.0
6	25.0	21.5	17.5	16.5	14.0	12.5	11.5	9.0	4.0	3.5	9.5	7.5
7	23.0	22.0	18.0	17.5	12.5	10.5	12.5	10.5	3.5	3.0	11.5	9.5
8	23.0	22.5	19.0	18.0	10.5	10.0	12.5	11.0	3.5	2.5	11.0	10.5
9	23.0	21.5	19.0	18.5	10.5	9.5	11.0	9.0	3.0	2.5	10.5	10.0
10	21.5	20.5	18.0	16.0	9.5	8.5	8.5	7.0	3.5	2.0	11.0	9.5
11	20.5	19.0	16.0	14.5	8.5	7.0	7.0	6.0	4.5	2.5	12.5	10.5
12	18.5	17.5	14.5	14.0	7.0	6.5	6.0	5.0	5.5	4.0	13.5	12.0
13	19.0	16.5	13.5	13.0	8.5	7.0	5.0	3.5	9.5	5.5	15.5	13.5
14	18.5	16.5	13.0	12.0	12.0	8.5	---	---	9.5	9.0	16.5	14.5
15	19.0	16.0	14.0	12.0	12.0	11.5	---	---	9.0	7.5	17.0	15.5
16	19.5	16.0	15.5	14.0	12.0	11.0	---	---	7.5	6.5	17.0	15.0
17	17.5	16.5	16.5	15.5	12.0	11.5	5.5	3.0	7.5	7.0	16.0	14.5
18	18.5	16.0	17.5	15.0	12.5	11.5	5.5	4.0	7.0	6.5	19.0	16.0
19	22.0	17.0	15.5	15.0	12.5	12.0	---	---	6.5	5.5	17.5	16.0
20	21.0	18.5	17.0	15.0	12.0	11.5	---	---	6.0	5.0	18.0	13.5
21	22.5	18.5	17.0	15.5	11.0	10.0	---	---	6.0	5.0	17.0	14.5
22	23.0	18.5	16.0	14.0	10.0	8.5	---	---	6.0	4.5	17.5	15.0
23	21.0	19.0	14.0	13.0	8.5	8.0	---	---	7.0	5.5	19.0	16.5
24	20.5	19.5	13.5	12.5	10.0	8.0	---	---	6.0	5.5	20.0	18.0
25	21.5	20.0	14.5	13.5	9.5	8.5	---	---	9.5	7.5	20.5	19.0
26	21.5	20.0	14.0	13.0	8.0	7.0	9.0	7.5	10.5	9.0	21.0	19.0
27	23.5	19.0	13.0	13.0	7.5	6.5	7.5	5.0	10.0	9.0	22.0	20.0
28	22.0	19.5	12.5	12.0	7.0	6.5	5.0	4.5	10.0	9.5	22.5	20.5
29	22.5	19.0	12.0	11.0	6.5	6.5	5.0	4.5	---	---	22.5	20.5
30	21.0	19.5	10.5	7.5	7.0	6.0	5.0	4.5	---	---	21.5	18.0
31	21.0	19.5	---	---	7.5	6.5	4.5	4.5	---	---	23.0	18.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	---	---	24.0	20.0	23.0	21.0	31.0	29.0	32.0	30.0	27.5	24.5
2	---	---	20.5	19.0	23.5	22.5	30.5	28.5	32.0	29.0	29.0	24.5
3	---	---	19.0	17.5	22.5	21.5	31.5	29.0	34.5	29.5	28.5	25.0
4	---	---	17.5	17.0	22.5	21.0	30.5	29.0	32.5	30.0	33.5	25.0
5	---	---	17.5	16.5	22.0	21.5	31.0	26.5	32.5	29.0	33.0	25.5
6	---	---	17.5	17.0	23.0	22.0	27.5	27.0	32.0	28.5	31.5	25.5
7	---	---	18.5	17.5	23.0	22.5	30.5	28.0	33.0	27.5	31.0	25.5
8	---	---	19.5	18.5	23.0	22.0	33.5	29.5	34.0	28.0	30.5	25.0
9	---	---	20.0	19.0	24.5	22.0	31.5	30.0	30.0	27.5	30.0	25.0
10	---	---	21.0	20.0	23.5	22.5	32.0	30.0	31.5	27.0	29.5	25.0
11	---	---	22.0	20.5	23.5	22.5	33.0	30.5	32.5	27.0	27.5	24.5
12	---	---	21.5	21.0	23.5	23.0	32.0	30.5	32.5	27.0	26.5	23.0
13	---	---	21.0	20.5	26.0	23.5	33.0	30.5	31.5	27.0	25.0	22.5
14	---	---	20.5	19.5	25.5	23.5	33.5	30.5	29.0	27.0	23.5	22.5
15	---	---	20.5	19.5	24.0	23.0	32.0	30.0	29.0	26.0	24.5	22.5
16	---	---	21.0	19.5	24.0	23.5	33.0	29.5	31.0	26.5	23.5	23.0
17	---	---	20.0	19.5	25.5	24.5	32.5	29.5	31.0	27.0	23.5	21.5
18	---	---	20.0	19.5	26.5	25.5	31.5	29.5	32.5	28.0	23.0	22.0
19	---	---	21.0	20.0	27.0	26.0	33.5	29.0	33.5	28.5	23.5	22.5
20	---	---	22.0	21.0	26.5	25.5	35.0	30.0	35.0	29.0	24.5	23.0
21	---	---	21.5	21.0	28.0	25.5	35.5	30.0	34.5	30.0	30.0	23.0
22	---	---	21.5	20.5	27.5	26.0	32.0	29.5	34.5	30.5	25.5	21.5
23	---	---	21.5	21.0	27.5	26.0	35.0	28.5	34.5	30.0	23.5	21.0
24	---	---	22.5	21.0	28.0	26.0	32.0	28.0	34.5	28.5	22.5	20.5
25	---	---	22.0	22.0	28.5	26.5	32.5	28.0	35.0	29.5	22.0	20.0
26	---	---	23.5	21.0	30.0	28.0	33.5	29.0	33.5	29.0	21.0	20.0
27	---	---	21.5	20.5	31.0	29.5	30.0	28.0	32.5	28.5	21.0	19.5
28	18.5	18.0	21.5	21.0	33.5	30.0	29.5	27.5	29.5	27.5	20.5	19.5
29	20.5	19.0	21.5	19.0	33.5	30.0	30.5	28.0	27.5	26.0	22.0	19.0
30	20.5	19.5	21.0	19.0	34.0	30.0	31.0	29.0	27.5	25.0	23.0	19.0
31	---	---	21.5	20.0	---	---	33.0	29.0	26.0	24.0	---	---

07369500 TENSAS RIVER AT TENDAL, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

NOV. 1, 1977 0930 HOURS

PHYTOPLANKTON 3,700 CELLS/ML

__ORGANISM__ NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	57	2
....DICTYOSPHAERIUM		0
....QUADRIGULA	43	1
...SCENEDESMACEAE		
....SCENEDESMUS	160	4
....TETRASTRUM	14	0
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CARTERIA	14	0
...VOLVOCAEAE		
....GONIUM	230	6
....PANDORINA	170	5
..ZYGNEMATALES		
...DESMIDIACEAE		
....COSMARIUM	14	0
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
...CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	43	1
....MELOSIRA	330	9
..PENNALES		
...NITZSCHIAEAE		
....NITZSCHIA	43	1
..CHRYSOPHYCEAE		
...CHRYSONOMADALES		
...OCHROMONODACEAE		
....DINOBRYON	160	4
CYANOPHYTA		
..CYANOPHYCEAE		
...CHROCOCCALES		
...CHROCOCCAEAE		
....ANACYSTIS	1,400	38
...HORMOGONALES		
...OSCILLATORIAEAE		
....OSCILLATORIA	210	6
EUGLENOPHYTA		
..CRYPTOPHYCEAE		
...CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	14	0
..EUGLENOPHYCEAE		
...EUGLENALES		
...EUGLENACEAE		
....EUGLENA	690	18
....LEPOCINCLIS		0
....PHACUS	29	1
....TRACHELOMONAS	72	2
PYRRHOPHYTA		
..DINOPHYCEAE		
...PERIDINIALES		
...GLENODINIACEAE		
....GLENODINIUM	14	0

MAR. 15, 1978 1700 HOURS

PHYTOPLANKTON 8,500 CELLS/ML

__ORGANISM__ NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	83	1
....DICTYOSPHAERIUM	170	2
....SELENASTRUM	120	1
...SCENEDESMACEAE		
....SCENEDESMUS	990	12
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	210	2
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
...CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	3,500	41
....MELOSIRA	1,700	20
..PENNALES		
...NITZSCHIAEAE		
....NITZSCHIA	540	6
CYANOPHYTA		
..CYANOPHYCEAE		
...CHROCOCCALES		
...CHROCOCCAEAE		
....AGMENELLUM	660	8
....ANACYSTIS	250	3
EUGLENOPHYTA		
..CRYPTOPHYCEAE		
...CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS		0
..EUGLENOPHYCEAE		
...EUGLENALES		
...EUGLENACEAE		
....EUGLENA	170	2
....TRACHELOMONAS	41	0

MAY 9, 1978 1800 HOURS

PHYTOPLANKTON 54 CELLS/ML

__ORGANISM__ NAME	CELLS/ML	PER_CENT
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
...PENNALES		
...FRAGILARIAEAE		
....SYNEDRA	14	25
...NAVICULACEAE		
....NAVICULA	14	25
EUGLENOPHYTA		
..EUGLENOPHYCEAE		
...EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	27	50

RED RIVER BASIN

155

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) National Geodetic Vertical Datum of 1929.

REMARKS.--Small diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.46 ft (6.236 m) May 14, 1978; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.46 ft (6.236 m) May 14; minimum, 4.15 ft (1.265 m) Oct. 30, 31, Nov. 1.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.26	4.17	14.57	4.84	11.36	4.75	4.41	---	8.73	4.37	4.44	4.74
2	4.28	4.32	14.90	4.81	12.37	4.74	4.37	---	8.36	4.36	4.47	4.70
3	4.29	4.49	14.36	4.70	12.16	4.74	4.36	---	7.99	4.37	4.37	4.61
4	4.28	5.27	13.50	4.59	11.21	4.70	4.36	---	7.52	4.55	4.32	4.55
5	4.26	5.76	12.61	4.51	10.08	4.66	4.36	---	7.02	5.42	4.28	4.50
6	4.25	5.77	11.65	4.46	8.99	4.63	4.35	---	6.56	5.41	4.27	4.45
7	4.25	5.63	---	4.43	8.08	4.66	4.35	---	6.14	5.01	4.29	4.41
8	4.26	5.37	---	4.39	7.38	4.87	4.34	---	5.88	4.67	4.30	4.38
9	4.36	5.34	---	4.39	6.86	5.09	4.34	---	5.80	4.48	4.31	4.36
10	4.37	5.39	---	4.39	6.45	5.10	4.33	---	5.81	4.55	4.32	4.35
11	4.38	5.48	---	4.39	6.12	4.98	4.33	20.30	5.95	4.74	4.33	4.33
12	4.38	5.32	---	4.44	5.90	4.98	4.33	20.30	6.94	4.72	4.33	4.34
13	4.35	5.02	---	4.97	7.62	4.83	4.33	20.42	5.90	4.62	4.33	4.37
14	4.30	4.72	---	6.06	9.69	4.73	4.33	20.43	5.71	4.54	4.35	4.45
15	4.27	4.53	---	6.20	9.54	4.70	4.33	20.31	5.54	4.43	4.35	4.82
16	4.26	4.42	---	6.02	8.73	4.65	4.33	19.91	---	4.41	4.34	5.08
17	4.25	4.37	---	7.59	7.95	4.62	4.32	19.27	---	4.51	4.32	5.79
18	4.24	4.29	---	9.36	7.35	4.60	4.30	18.40	---	4.49	4.32	5.76
19	4.23	4.28	8.52	9.04	6.82	4.57	4.29	17.53	---	4.43	4.32	5.18
20	4.23	4.87	7.91	8.14	6.34	4.54	4.27	16.68	---	4.34	4.31	5.00
21	4.21	5.55	7.20	7.35	5.91	4.49	4.27	15.68	---	4.34	4.30	4.70
22	4.17	9.82	6.64	6.81	5.64	4.49	4.26	14.72	---	4.32	4.31	4.51
23	4.17	11.84	6.21	6.75	5.58	4.50	4.26	13.87	---	4.37	4.31	4.42
24	4.18	11.64	5.85	9.11	5.39	4.53	4.29	---	---	4.33	4.34	4.36
25	4.21	10.71	5.53	13.37	5.17	4.55	4.34	---	---	4.36	4.38	4.33
26	4.21	9.74	5.22	14.81	4.98	4.55	4.59	---	---	4.44	4.39	4.31
27	4.21	8.87	4.95	14.79	4.83	4.55	4.98	---	---	4.50	4.44	4.31
28	4.21	8.39	4.74	14.12	4.77	4.52	---	---	---	4.52	4.44	4.31
29	4.21	9.06	4.64	13.26	---	4.48	---	---	---	4.56	4.60	4.31
30	4.20	12.66	4.67	12.27	---	4.44	---	---	4.39	4.54	4.67	4.31
31	4.15	---	4.77	11.32	---	4.42	---	---	---	4.48	4.73	---
MEAN	4.25	6.57	---	7.60	7.62	4.67	---	---	---	4.55	4.37	4.60
MAX	4.38	12.66	14.90	14.81	12.37	5.10	---	20.43	8.73	5.42	4.73	5.79
MIN	4.15	4.17	4.64	4.39	4.77	4.42	4.26	---	4.39	4.32	4.27	4.31

07369647 LAKE ST. JOSEPH NEAR NEWELLTON, LA

LOCATION.--Lat 32°03'20", long 91°13'35", in lot 3, T.12 N., R.12 E., Tensas Parish, Hydrologic Unit 08050003, near left bank on upstream side of Clark Bayou bridge on State Highway 605, 1.5 mi (2.4 km) southeast of Newellton.

DRAINAGE AREA.--23.2 mi² (60.1 km²).

PERIOD OF RECORD.--December 1977 to September 1978 (elevations only). Unpublished records from February 1959 to September 1961 available in files of Baton Rouge district office.

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

REMARKS.--Reservoir is used for irrigation and recreation and is formed from an oxbow lake by two control structures on Clark Bayou. Control structure No. 1 has a 70-ft (21.3-m) long weir with a crest of 63.0 ft (19.2 m). Two timber lift gates with widths of 10-ft (3.0-m) each with a low sill at invert elevation of 56.0 ft (17.1 m). Control structure No. 2 on upper Clark Bayou has a drop inlet weir length of 53-ft (16.2-m) with crest elevation of 65.0 ft (19.8 m) and an 8-ft (2.4-m) wide timber lift gate with invert elevation of 58.5 ft (17.8 m). Pool stage is 65.0 ft (19.8 m) as controlled by structure No. 2.

EXTREMES FOR CURRENT YEAR.--Maximum elevation during period December to September, 67.47 ft (20.565 m) May 13; minimum, 64.69 ft (19.718 m) Sept. 30.

ELEVATION, IN FEET NGVD, DECEMBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				66.19	66.88	66.16	66.02	65.92	65.86	65.71	65.15	64.99
2				66.14	66.89	66.15	66.00	65.93	65.92	65.67	65.12	64.99
3				66.15	66.83	66.08	65.99	66.05	65.91	65.65	65.09	64.97
4				66.13	66.77	66.06	65.98	66.11	65.90	65.63	65.08	64.96
5				66.12	66.68	66.09	65.95	66.13	65.88	65.61	65.07	64.94
6				66.09	66.64	66.06	65.96	66.15	65.87	65.59	65.04	64.93
7				66.10	66.63	66.07	65.91	66.68	65.85	65.57	65.03	64.93
8				66.12	66.51	66.06	65.91	67.22	65.92	65.57	65.01	64.90
9				66.13	66.46	66.05	65.88	67.26	65.93	65.55	65.02	64.89
10				66.14	66.43	66.03	65.87	67.18	65.91	65.51	65.01	64.87
11				66.14	66.39	66.06	65.97	67.09	65.89	65.51	64.99	64.90
12				66.11	66.37	66.01	65.97	67.21	65.87	65.48	65.00	64.89
13				66.12	66.46	66.04	65.93	67.45	65.84	65.45	64.97	64.90
14				66.05	66.51	66.18	65.98	67.41	65.83	65.42	64.99	64.91
15			66.55	66.11	66.49	66.24	65.90	67.32	65.79	65.42	65.03	64.89
16			66.51	66.15	66.44	66.12	65.90	67.14	65.76	65.39	65.01	64.88
17			66.46	66.13	66.40	66.15	65.89	67.01	65.76	65.39	64.99	64.88
18			66.43	66.23	66.33	66.14	66.15	66.82	65.74	65.37	64.98	64.87
19			66.39	66.21	66.31	66.12	66.07	66.66	65.79	65.35	64.95	64.85
20			66.34	66.24	66.29	66.10	66.09	66.51	65.88	65.33	64.94	64.83
21			66.28	66.25	66.15	66.07	66.10	66.36	65.87	65.30	64.91	64.80
22			66.29	66.24	66.22	66.08	66.11	66.21	65.86	65.29	64.91	64.77
23			66.27	66.27	66.08	66.05	66.07	66.05	65.84	65.28	64.89	64.77
24			66.25	66.61	66.17	66.13	66.00	65.92	65.82	65.30	64.87	64.74
25			66.26	66.97	66.15	66.08	66.02	65.91	65.80	65.26	64.86	64.73
26			66.24	67.10	66.18	66.07	65.96	65.90	65.79	65.24	64.83	64.72
27			66.19	67.09	66.20	66.06	66.00	65.88	65.75	65.24	64.83	64.71
28			66.19	67.00	66.16	66.06	65.99	65.86	65.73	65.20	64.80	64.71
29			66.16	66.92	---	66.05	65.99	65.87	65.71	65.17	65.11	64.71
30			66.21	66.87	---	66.04	65.96	65.86	65.67	65.17	65.00	64.69
31			66.23	66.81	---	66.03	---	65.89	---	65.14	65.01	---
MEAN			---	66.35	66.43	66.09	65.98	66.48	65.83	65.41	64.98	64.85
MAX			---	67.10	66.89	66.24	66.15	67.45	65.93	65.71	65.15	64.99
MIN			---	66.05	66.08	66.01	65.87	65.86	65.67	65.14	64.80	64.69

07369648 LAKE BRUIN AT LAKE BRUIN STATE PARK NEAR ST. JOSEPH, LA

LOCATION.--Lat 31°57'40", long 91°12'10", in NW¼SW¼ sec.26, T.12 N., R.12 E., Tensas Parish, Hydrologic Unit 08050003, at State Park fishing pier, 3.5 mi (5.6 km) northeast of St. Joseph.

DRAINAGE AREA.--21.4 mi² (55.4 km²).

PERIOD OF RECORD.--February 1959 to September 1964, November 1977 to September 1978 (elevations only).

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

REMARKS.--Reservoir is used for recreation and public supply and is formed from an oxbow lake by Routh Ditch control structure at U.S. Highway 165. Weir length is 60.7-ft (18.5-m) at a crest elevation of 61.0 ft (18.6 m) with stoplog arrangement that can vary the pool stage from 61.0 to 63.0 ft (18.6 to 19.2 m). There are two 6-ft (1.8-m) wide metal lift gates with an invert elevation of 56.2 ft (17.1 m). Area of lake is 3,000 acres (12.1 km²) at an elevation of 63.0 ft (19.2 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum and minimum elevations for water years 1959-64, 1978 are contained in the following table:

Water year	Maximum				Minimum		
	Date	Elevation		Date	Elevation		
		(feet)	(meters)		(feet)	(meters)	
1959a	unknown	unknown		Aug. 24	60.72	18.498	
1960	Mar. 4	62.36	19.007	Sept. 30	59.67	18.187	
1961	Mar. 31	64.43	19.638	Dec. 26, 27-28, 29	58.92	17.959	
1962	Jan. 29	63.57	19.376	Sept. 30	59.76	18.215	
1963	about Mar. 14	61.24	18.666	Sept. 30	58.45	17.816	
1964	June 1	62.32	18.995	Jan. 2, 3, 4	57.28	17.459	
1978c	May 13	63.46	19.343	Nov. 19	59.31	18.078	

a Period Feb. 13 to Sept. 30.

b From range-line.

c Period Nov. 10 to Sept. 30.

ELEVATION, IN FEET NGVD, FEBRUARY TO SEPTEMBER 1959
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						61.35	61.41	61.94	61.09	---	61.20	60.91
2						61.36	61.38	61.90	61.13	---	61.19	60.96
3						61.37	61.36	61.85	61.10	---	61.18	60.94
4						61.38	61.33	61.80	61.10	---	61.16	60.92
5						61.57	61.31	61.76	61.12	---	61.13	60.91
6						61.58	61.28	61.70	61.25	---	61.11	60.92
7						61.62	61.25	61.66	61.25	---	61.08	61.16
8						61.64	61.21	61.62	61.26	---	61.07	61.48
9						61.66	61.24	61.58	62.35	---	61.03	61.51
10						61.67	61.27	61.52	62.47	61.39	60.99	61.54
11						61.87	61.26	61.47	62.50	61.35	60.96	61.70
12						61.91	61.33	61.48	62.50	61.31	60.92	61.72
13					60.80	61.87	61.33	61.46	---	61.29	60.90	61.73
14					60.87	61.83	61.32	61.43	---	61.26	60.86	61.77
15					61.04	61.83	61.32	61.37	---	61.24	60.88	61.76
16					61.09	61.87	61.33	61.32	---	61.23	60.86	61.76
17					61.14	61.71	61.34	61.28	---	61.20	60.83	61.76
18					61.18	61.68	61.51	61.25	---	61.18	60.81	61.76
19					61.20	61.63	61.62	61.22	---	61.15	60.79	---
20					61.22	61.60	61.79	61.19	---	61.16	60.77	---
21					61.22	61.68	61.89	61.14	---	61.14	60.78	---
22					61.24	61.66	61.92	61.12	---	61.11	60.75	---
23					61.26	61.62	61.94	61.27	---	61.13	60.76	---
24					61.27	61.58	61.97	61.25	---	61.16	60.74	---
25					61.30	61.55	62.00	61.21	---	61.18	60.89	---
26					61.31	61.57	62.00	61.18	---	61.18	60.86	---
27					61.32	61.56	62.02	61.15	---	61.20	60.91	---
28					61.33	61.50	62.02	61.12	---	61.18	60.89	---
29					---	61.47	62.04	61.10	---	61.16	60.87	---
30					---	61.46	62.00	61.10	---	61.18	60.86	---
31					---	61.43	---	61.10	---	61.17	60.93	---
MEAN					---	61.62	61.57	61.40	---	---	60.93	---
MAX					---	61.91	62.04	61.94	---	---	61.20	---
MIN					---	61.35	61.21	61.10	---	---	60.74	60.91

07369648 LAKE BRUIN AT LAKE BRUIN STATE PARK, NEAR ST. JOSEPH, LA--Continued

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1959 TO SEPTEMBER 1960
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	61.19	60.79	61.55	61.49	61.57	61.79	61.21	61.08	60.71	60.15	60.27
2	---	61.21	60.83	61.53	61.48	61.56	61.76	61.18	61.09	60.69	60.13	60.25
3	---	61.21	60.81	61.56	61.46	62.34	61.75	61.17	61.08	60.67	60.11	60.23
4	---	61.19	60.79	61.54	61.57	62.36	61.70	61.18	61.09	60.64	60.10	60.21
5	---	61.21	60.79	61.51	61.56	62.55	61.66	61.19	61.07	60.62	60.06	60.18
6	---	61.18	60.78	61.70	61.54	62.31	61.63	61.31	61.06	60.60	60.06	60.17
7	61.30	61.13	60.77	61.72	61.53	62.29	61.60	61.43	61.04	60.59	60.05	60.14
8	61.28	61.10	60.75	61.70	61.51	62.26	61.57	61.40	61.04	60.57	60.07	60.13
9	61.25	61.08	60.75	61.67	61.49	62.25	61.59	61.39	61.05	60.54	60.05	60.10
10	61.22	61.06	60.74	61.66	61.50	62.20	61.55	61.37	61.03	60.52	60.02	60.13
11	61.20	61.04	60.74	61.64	61.47	62.17	61.51	61.35	61.01	60.50	60.15	60.11
12	61.18	61.03	60.80	61.62	61.46	62.13	61.47	61.29	61.00	60.49	60.19	60.07
13	61.17	61.02	60.77	61.61	61.52	62.08	61.45	61.26	60.96	60.47	60.17	60.04
14	61.25	61.07	60.77	61.60	61.51	62.02	61.43	61.25	60.96	60.46	60.16	60.01
15	61.22	61.05	60.76	61.65	61.48	62.20	61.40	61.23	60.94	60.43	60.16	59.99
16	61.21	61.03	60.88	61.63	61.56	62.20	61.38	61.23	60.93	60.37	60.14	59.95
17	61.19	61.03	61.63	61.66	61.57	62.18	61.37	61.23	60.97	60.36	60.13	59.93
18	61.15	60.97	61.87	61.74	61.59	62.14	61.37	61.22	60.94	60.37	60.08	59.92
19	61.12	60.95	61.90	61.70	61.55	62.11	61.33	61.21	60.92	60.35	60.15	59.89
20	61.10	60.93	61.88	61.67	61.53	62.06	61.31	61.20	60.91	60.34	60.24	59.87
21	61.08	60.92	61.86	61.64	61.62	62.02	61.29	61.20	60.88	60.32	60.23	59.85
22	61.07	60.91	61.83	61.63	61.69	61.99	61.28	61.20	60.86	60.31	60.26	59.84
23	61.05	60.91	61.80	61.58	61.69	61.99	61.26	61.19	60.84	60.29	60.38	59.83
24	61.03	60.90	61.77	61.57	61.67	61.94	61.24	61.18	60.82	60.25	60.38	59.81
25	60.98	60.89	61.73	61.54	61.69	61.91	61.22	61.16	60.80	60.24	60.36	59.80
26	60.95	60.87	61.71	61.51	61.65	61.90	61.20	61.13	60.78	60.22	60.33	59.76
27	60.95	60.88	61.68	61.52	61.62	61.86	61.20	61.14	60.81	60.21	60.31	59.75
28	60.92	60.85	61.67	61.51	61.61	61.90	61.19	61.12	60.78	60.18	60.29	59.72
29	60.89	60.83	61.63	61.56	61.60	61.87	61.19	61.10	60.76	60.18	60.28	59.69
30	60.88	60.81	61.59	61.53	---	61.86	61.21	61.09	60.74	60.17	60.30	59.68
31	61.11	---	61.57	61.51	---	61.82	---	61.09	---	60.17	60.28	---
MEAN	---	61.02	61.25	61.61	61.56	62.07	61.43	61.22	60.94	60.41	60.19	59.98
MAX	---	61.21	61.90	61.74	61.69	62.55	61.79	61.43	61.09	60.71	60.38	60.27
MIN	---	60.81	60.74	61.51	61.46	61.56	61.19	61.09	60.74	60.17	60.02	59.68

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1960 TO SEPTEMBER 1961
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.66	59.43	59.05	59.14	---	61.35	64.39	62.89	62.48	62.57	62.19	61.21
2	59.64	59.41	59.01	59.15	---	61.32	64.34	62.89	62.48	62.50	62.14	61.18
3	59.62	59.39	---	59.15	---	61.35	64.29	62.84	62.47	62.46	62.11	61.16
4	59.61	59.36	---	59.14	---	61.40	64.24	62.79	62.46	62.42	62.06	61.15
5	59.61	59.31	---	59.14	---	61.55	64.17	62.74	62.46	62.38	62.01	61.14
6	59.61	59.23	---	59.13	---	61.95	64.09	62.69	62.46	62.34	61.94	61.12
7	59.61	59.25	---	59.25	---	62.15	64.04	62.64	62.43	62.29	61.89	61.10
8	59.58	59.21	---	---	---	62.26	63.95	62.63	62.42	62.29	61.84	61.07
9	59.56	59.25	---	---	60.21	62.30	63.96	62.60	62.42	62.29	61.89	61.05
10	59.56	59.31	---	---	60.21	62.35	63.90	62.59	62.41	62.28	61.73	61.01
11	59.54	59.27	---	---	60.20	62.36	63.86	62.58	62.39	62.31	61.69	---
12	59.51	59.25	---	---	60.20	62.40	63.87	62.57	62.39	62.39	61.64	---
13	59.49	59.26	59.02	---	60.20	62.44	63.79	62.55	62.39	62.41	61.60	---
14	59.47	59.24	59.02	---	60.20	62.47	63.75	62.55	62.39	62.43	61.62	---
15	59.45	59.23	59.05	---	60.20	62.50	63.69	62.54	62.40	62.44	61.57	---
16	59.44	59.25	59.04	---	60.19	62.51	63.60	62.51	62.39	62.44	61.56	---
17	59.41	59.25	59.02	---	60.25	62.91	63.54	62.49	62.43	62.48	61.52	---
18	59.41	59.24	59.01	---	60.35	63.30	63.49	62.49	63.46	62.48	61.50	---
19	59.48	59.21	59.00	---	60.50	63.33	63.44	62.49	62.50	62.46	61.47	---
20	59.45	59.20	58.99	---	60.56	63.30	63.38	62.51	62.89	62.45	61.44	---
21	59.41	59.19	58.98	---	60.65	63.26	63.30	62.55	62.96	62.42	61.41	---
22	59.39	59.20	58.96	---	60.87	63.21	63.25	62.55	62.93	62.40	61.38	---
23	59.36	59.19	58.94	---	60.99	63.15	63.20	62.54	62.89	62.44	61.36	---
24	59.35	59.17	58.93	---	61.05	63.10	63.15	62.54	62.84	62.57	61.35	---
25	59.33	59.15	58.93	---	61.10	63.05	63.10	62.54	62.80	62.55	61.34	---
26	59.33	59.15	58.93	---	61.11	63.00	63.11	62.53	62.82	62.50	61.33	---
27	59.32	59.14	58.92	---	61.15	63.00	63.09	62.49	62.79	62.44	61.30	---
28	59.32	59.12	58.92	---	61.25	63.56	63.04	62.49	62.74	62.38	61.28	---
29	59.29	59.11	58.94	---	---	63.91	62.99	62.49	62.69	62.32	61.27	---
30	59.36	59.07	58.94	---	---	64.14	62.91	62.49	62.64	62.26	61.25	---
31	59.46	---	59.05	---	---	64.39	---	62.49	---	62.20	61.23	---
MEAN	59.47	59.23	---	---	---	62.69	63.63	62.59	62.61	62.41	61.61	---
MAX	59.66	59.43	---	---	---	64.39	64.39	62.89	63.46	62.57	62.19	---
MIN	59.29	59.07	58.92	---	---	61.32	62.91	62.49	62.39	62.20	61.23	61.01

RED RIVER BASIN

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07369648 LAKE BRUIN AT LAKE BRUIN STATE PARK, NEAR ST. JOSEPH, LA--Continued

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1961 TO SEPTEMBER 1962
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	60.13	60.97	62.51	63.48	62.50	62.03	62.88	62.03	62.00	---	60.45
2	---	60.10	60.97	62.45	63.44	62.45	62.00	62.92	62.02	61.98	61.20	60.43
3	---	60.21	60.96	62.41	63.39	62.41	62.97	62.90	62.06	61.95	61.17	60.44
4	60.60	60.20	60.96	62.37	63.35	62.38	62.95	62.87	62.06	61.93	61.15	60.40
5	60.58	60.28	61.01	62.50	63.30	62.35	61.93	62.84	62.13	61.91	61.14	60.39
6	60.55	60.24	61.02	62.56	63.25	62.29	61.96	---	62.12	61.89	61.11	60.37
7	60.54	60.20	61.05	62.52	63.17	62.25	61.94	---	62.13	61.86	61.08	60.33
8	60.53	60.18	61.04	62.49	63.14	62.20	61.94	---	62.15	61.84	61.06	60.30
9	60.51	60.15	61.09	62.47	63.10	62.20	61.95	62.65	62.16	61.81	61.05	60.29
10	60.50	60.14	61.17	62.45	63.08	62.17	61.94	62.62	62.15	61.80	61.01	60.27
11	60.49	60.12	61.23	62.41	63.00	62.25	61.99	62.57	62.15	61.78	60.97	60.25
12	60.48	60.12	61.58	62.39	62.95	62.23	62.36	62.53	62.16	61.79	60.95	60.23
13	60.45	60.31	61.72	62.30	62.91	62.19	62.45	62.48	62.15	61.69	60.90	60.20
14	60.44	60.55	61.88	62.25	62.88	62.18	62.45	62.42	62.15	---	60.88	60.19
15	60.38	60.59	62.11	62.42	62.84	62.17	62.45	62.38	62.13	---	60.85	60.17
16	60.35	60.82	62.11	62.44	62.82	62.15	62.40	62.33	62.11	---	60.81	60.16
17	60.34	60.85	62.34	62.42	62.77	62.12	62.37	62.28	62.10	---	60.77	60.15
18	60.32	60.85	62.90	62.41	62.72	62.10	62.36	62.24	62.09	---	60.71	60.12
19	60.30	60.85	63.00	62.57	62.70	62.07	62.35	62.19	62.07	---	60.68	60.09
20	60.28	60.83	63.00	62.57	62.66	62.05	62.33	62.15	62.09	---	60.65	60.07
21	60.26	60.81	62.97	62.55	62.62	62.04	62.30	62.09	62.07	---	60.63	60.00
22	60.25	60.78	62.95	62.53	62.63	62.02	62.28	62.02	62.05	---	60.60	59.98
23	60.23	60.99	62.89	62.52	62.65	62.00	62.25	61.97	62.03	---	60.57	59.95
24	60.21	61.00	62.85	62.50	62.63	61.98	62.25	61.95	62.00	---	60.55	59.92
25	60.20	61.01	62.80	62.48	62.60	62.00	62.26	61.95	61.98	---	60.52	59.90
26	60.19	61.01	62.75	62.45	62.57	61.98	62.22	61.93	61.96	---	60.55	59.88
27	60.16	61.01	62.71	62.68	62.55	61.95	61.20	61.91	61.95	---	60.53	59.85
28	60.15	61.08	62.66	63.51	62.55	61.94	62.61	61.90	61.93	---	60.51	59.83
29	60.14	61.02	62.60	63.57	---	61.92	62.66	61.86	62.02	---	60.49	59.80
30	60.14	60.98	62.55	63.55	---	61.90	62.65	61.90	62.00	---	60.48	59.78
31	60.13	---	62.51	63.52	---	62.03	---	62.03	---	---	60.47	---
MEAN	---	60.58	62.01	62.61	62.92	62.14	62.26	---	62.07	---	---	60.14
MAX	---	61.08	63.00	63.57	63.48	62.50	62.97	62.92	62.16	62.00	61.20	60.45
MIN	60.13	60.10	60.96	62.25	62.55	61.90	61.20	61.86	61.93	---	60.47	59.78

RED RIVER BASIN

07369648 LAKE BRUIN AT LAKE BRUIN STATE PARK, NEAR ST. JOSEPH, LA--Continued

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1962 TO SEPTEMBER 1963
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.76	59.36	---	59.49	60.14	---	---	61.04	60.38	59.79	59.86	59.24
2	59.74	59.33	---	59.49	60.16	---	61.16	61.00	60.36	59.81	59.85	59.21
3	59.71	59.32	---	59.49	60.19	---	61.15	60.98	60.34	59.79	59.83	59.19
4	59.69	59.29	---	59.48	60.18	---	61.16	60.97	60.31	59.77	59.79	59.17
5	59.67	59.27	---	59.50	60.17	---	61.13	60.95	60.29	59.84	59.77	59.15
6	59.64	59.24	---	59.53	60.17	---	61.17	60.94	60.25	59.80	59.75	59.13
7	59.63	59.22	---	59.53	60.17	---	61.15	60.93	60.24	59.78	59.72	59.10
8	59.62	59.21	---	59.52	60.17	---	61.14	60.91	60.21	59.75	59.70	59.07
9	59.67	---	---	59.51	60.15	---	61.13	60.88	60.20	59.79	59.72	59.05
10	59.65	---	---	59.51	60.15	---	61.13	60.85	60.16	59.77	59.70	59.02
11	59.64	---	---	59.51	60.14	---	61.13	60.83	60.13	59.74	59.70	59.00
12	59.61	---	---	59.60	60.16	---	61.16	60.82	60.11	59.72	59.66	58.96
13	59.60	---	---	59.60	60.14	---	61.17	60.80	60.10	59.69	59.63	58.95
14	59.58	---	---	59.58	60.13	---	61.16	---	60.08	59.66	59.65	58.91
15	59.56	---	---	59.58	60.12	---	61.15	---	60.06	59.64	59.62	58.89
16	59.54	---	---	59.57	60.11	---	61.13	---	60.02	59.61	59.59	58.85
17	59.52	---	---	59.54	60.09	---	61.13	---	60.04	59.59	59.56	58.82
18	59.49	---	---	59.59	60.09	---	61.12	---	60.02	59.56	59.53	58.82
19	59.46	---	---	59.60	60.28	---	61.11	---	60.00	59.54	59.50	58.80
20	59.44	---	---	59.74	---	---	61.13	---	59.98	59.60	59.48	58.77
21	59.61	---	---	59.83	---	---	61.16	---	59.98	59.47	59.50	58.75
22	59.60	---	---	59.85	---	---	61.16	---	59.97	59.49	59.47	58.71
23	59.59	---	---	59.91	---	---	61.14	---	59.95	59.64	59.45	58.68
24	59.55	---	---	59.86	---	---	61.14	---	59.91	59.88	59.43	58.64
25	59.52	---	---	59.85	---	---	61.12	---	59.90	59.87	59.41	58.61
26	59.48	---	---	59.85	---	---	61.10	---	59.88	59.84	59.39	58.57
27	59.44	---	---	59.85	---	---	61.09	---	59.85	59.83	59.37	58.54
28	59.43	---	---	59.83	---	---	61.08	---	59.84	59.81	59.35	58.52
29	59.41	---	---	59.81	---	---	61.07	60.43	59.82	59.79	59.31	58.50
30	59.41	---	---	60.01	---	---	61.07	60.41	59.79	59.77	59.29	58.48
31	59.38	---	---	60.09	---	---	---	60.38	---	59.86	59.27	---
MEAN	59.57	---	---	59.67	---	---	---	---	60.07	59.73	59.58	58.87
MAX	59.76	---	---	60.09	---	---	---	61.04	60.38	59.88	59.86	59.24
MIN	59.38	---	---	59.48	60.07	---	61.07	60.38	59.79	59.47	59.27	58.48

RED RIVER BASIN

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07369648 LAKE BRUIN AT LAKE BRUIN STATE PARK, NEAR ST. JOSEPH, LA--Continued

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1963 TO SEPTEMBER 1964
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.44	57.81	57.50	57.30	57.97	57.92	59.41	62.13	62.32	61.70	61.70	61.08
2	58.43	57.80	57.51	57.28	57.96	58.19	59.37	62.14	62.32	61.70	61.67	61.06
3	58.40	57.78	57.50	57.28	57.95	58.45	59.39	62.17	62.30	61.74	61.64	61.02
4	58.38	57.74	57.48	57.32	57.93	58.57	59.59	62.17	62.29	61.74	61.61	60.99
5	58.37	57.73	57.46	57.31	57.96	58.78	59.39	62.17	62.28	61.72	61.58	60.95
6	58.34	57.75	57.45	57.33	57.95	58.78	59.84	62.17	62.26	61.68	61.56	60.92
7	58.33	57.73	57.43	57.35	57.94	58.79	59.98	62.16	62.25	61.67	61.60	60.91
8	58.32	57.72	57.44	57.34	57.92	58.80	59.98	62.17	62.23	61.65	61.58	60.87
9	58.28	57.71	57.38	57.52	57.90	58.81	59.98	62.17	62.21	61.80	61.56	60.85
10	58.27	57.69	57.38	57.54	57.88	58.79	59.99	62.16	62.18	62.12	61.53	60.82
11	58.25	57.67	57.38	57.58	57.88	58.85	59.99	62.16	62.17	62.15	61.48	60.78
12	58.23	57.63	57.38	57.62	57.86	58.85	59.98	62.15	62.14	62.15	61.44	60.73
13	58.21	57.60	57.40	57.59	57.86	58.85	60.30	62.28	62.11	62.16	61.45	60.68
14	58.18	57.58	57.48	57.58	57.87	58.84	60.62	62.28	62.08	62.15	61.41	60.62
15	58.17	57.54	57.45	57.57	57.87	59.21	60.68	62.27	62.05	62.13	61.37	60.60
16	58.16	57.52	57.43	57.57	57.87	59.32	60.73	62.25	62.02	62.12	61.34	60.57
17	58.13	57.51	57.41	57.68	57.87	59.35	60.76	62.25	62.01	62.10	61.32	60.55
18	58.13	57.50	57.39	57.68	57.91	59.35	60.79	62.24	61.96	62.07	61.28	60.55
19	58.10	57.48	57.37	57.70	57.91	59.34	60.82	62.23	61.93	62.05	61.31	60.53
20	58.08	57.48	57.35	57.71	57.90	59.51	60.84	62.22	61.90	62.03	61.28	60.52
21	58.07	57.47	57.42	57.70	57.90	59.52	60.85	62.20	61.88	62.00	61.24	60.49
22	58.05	57.45	57.42	57.71	57.88	59.52	60.87	62.18	61.85	61.97	61.28	60.47
23	58.03	57.51	57.43	57.72	57.87	59.51	60.87	62.17	61.81	61.93	61.30	60.44
24	58.01	57.48	57.40	57.77	57.85	59.50	60.87	62.14	61.78	61.92	61.27	60.46
25	57.99	57.45	57.39	57.92	57.93	59.50	61.04	62.13	61.74	61.89	61.25	60.42
26	57.98	57.45	57.38	57.97	57.93	59.52	61.16	62.12	61.69	61.87	61.22	60.38
27	57.96	57.42	57.38	57.98	57.94	59.50	61.87	62.09	61.66	61.84	61.21	60.35
28	57.94	57.47	57.37	57.98	57.94	59.47	62.01	62.05	61.64	61.80	61.18	60.37
29	57.93	57.57	57.35	57.97	57.93	59.46	62.07	62.12	61.61	61.78	61.17	60.41
30	57.88	57.53	57.34	57.96	---	59.44	62.11	62.07	61.72	61.75	61.14	60.45
31	57.85	---	57.33	57.97	---	59.41	---	62.27	---	61.72	61.12	---
MEAN	58.16	57.59	57.41	57.63	57.91	59.09	60.54	62.18	62.01	61.91	61.39	60.66
MAX	58.44	57.81	57.51	57.98	57.97	59.52	62.11	62.28	62.32	62.16	61.70	61.08
MIN	57.85	57.42	57.33	57.28	57.85	57.92	59.37	62.05	61.61	61.65	61.12	60.35

RED RIVER BASIN

07369648 LAKE BRUIN AT LAKE BRUIN STATE PARK, NEAR ST. JOSEPH, LA--Continued

ELEVATION, IN FEET NGVD, NOVEMBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			60.95	61.44	62.20	61.51	61.41	61.63	62.10	62.00	61.37	60.91
2			61.07	61.31	62.24	61.49	61.40	61.65	62.17	61.98	61.35	60.89
3			61.14	61.29	62.16	61.46	61.39	61.75	62.15	61.95	61.33	60.87
4			61.22	61.26	62.10	61.45	61.39	61.84	62.16	61.93	61.30	60.85
5			61.27	61.26	62.04	61.42	61.38	61.85	62.16	61.91	61.27	60.80
6			61.32	61.26	61.96	61.40	61.39	61.87	62.14	61.90	61.24	60.79
7			61.32	61.24	61.91	61.41	61.38	62.14	62.13	61.87	61.21	60.75
8			61.35	61.29	61.84	61.46	61.38	63.24	62.24	61.87	61.19	60.74
9			61.47	61.29	61.78	61.43	61.37	63.39	62.27	61.85	61.16	60.71
10		59.48	61.46	61.26	61.74	61.42	61.36	63.33	62.25	61.83	61.15	60.71
11		59.45	61.46	61.25	61.70	61.41	61.50	63.19	62.24	61.80	61.13	60.74
12		59.42	61.48	61.24	61.67	61.40	61.45	63.27	62.24	61.78	61.14	60.72
13		59.41	61.50	61.23	61.83	61.40	61.44	63.43	62.24	61.75	61.12	60.72
14		59.39	61.85	61.21	61.80	61.54	61.44	63.40	62.22	61.72	61.12	60.71
15		59.39	61.95	61.19	61.78	61.54	61.43	63.29	62.20	61.70	61.12	60.67
16		59.36	62.00	61.17	61.75	61.00	61.43	63.18	62.18	61.68	61.11	60.67
17		59.38	61.91	61.29	61.72	61.49	61.42	63.06	62.16	61.65	61.08	60.66
18		59.35	61.86	61.25	61.69	61.47	61.53	62.97	62.12	61.62	61.06	60.64
19		59.35	61.80	61.29	61.65	61.46	61.59	62.85	62.13	61.59	61.04	60.61
20		59.34	61.76	61.30	61.62	61.45	61.60	62.73	62.15	61.57	61.02	60.61
21		59.36	61.70	61.28	61.59	61.44	61.60	62.63	62.14	61.55	61.00	60.57
22		59.53	61.64	61.28	61.56	61.44	61.59	62.53	62.12	61.55	60.98	60.56
23		59.52	61.58	61.30	61.54	61.42	61.60	62.41	62.10	61.53	60.95	60.51
24		59.54	61.56	61.69	61.52	61.54	61.61	62.32	62.09	61.57	60.92	60.50
25		59.51	61.57	62.30	61.51	61.50	61.63	62.22	62.07	61.53	60.90	60.46
26		59.52	61.51	62.47	61.53	61.49	61.64	62.14	62.05	61.51	60.87	60.43
27		59.50	61.48	62.42	61.50	61.46	61.63	62.10	62.03	61.50	60.85	60.41
28		59.69	61.44	62.36	61.50	61.45	61.64	62.09	62.01	61.48	60.81	60.40
29		59.89	61.44	62.28	---	61.42	61.62	62.09	61.99	61.46	60.94	60.39
30		60.55	61.47	62.19	---	61.42	61.63	62.10	61.97	61.43	60.96	60.37
31		---	61.44	62.13	---	61.42	---	62.10	---	61.41	60.93	---
MEAN		---	61.52	61.52	61.77	61.44	61.50	62.54	62.14	61.69	61.08	60.65
MAX		---	62.00	62.47	62.24	61.54	61.64	63.43	62.27	62.00	61.37	60.91
MIN		---	60.95	61.17	61.50	61.40	61.36	61.63	61.97	61.41	60.81	60.37

RED RIVER BASIN

163

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) National Geodetic Vertical Datum of 1929 (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, 23.50 ft (7.163 m) May 8; minimum discharge, 59 ft³/s (1.67 m³/s) Aug. 4, gage height, 1.54 ft (0.469 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	76		138			184	143		171	61	145
2	91	98		133			172	157		160	60	108
3	83	157		125			164			141	60	92
4	83	191		118			159			125	60	86
5	83	139		121			155			119	62	82
6	81	106		138			151			120	65	81
7	81	99		160			146			116	68	83
8	90	98		200			143			143	77	74
9	108	94					139			188	122	70
10	103	92					141			187	161	69
11	100	89					187			171	162	68
12	90	87								162	152	72
13	89	86					192			152	173	85
14	89	85					172			144	168	95
15	88	85					158			166	131	107
16	86	84					151			169	109	101
17	83	90					146			164	88	88
18	84	85					141			123	81	75
19	84	85					141			102	81	71
20	83	84			189		177			99	79	72
21	82				177		194			95	75	75
22	81				168		173			90	71	76
23	81				190		166			80	71	80
24	81						168			75	75	78
25	83									65	78	75
26	81		197							70	91	71
27	79		178							75	95	70
28	77	180	164				179			80	87	71
29	77		157				145			75	144	71
30	76		151				137		188	70		71
31	76	---	143			199	---		---	65		---
TOTAL	2650	---	---	---	---	---	---	---	---	3762	---	2462
MEAN	85.5	---	---	---	---	---	---	---	---	121	---	82.1
MAX	108	---	---	---	---	---	---	---	---	188	---	145
MIN	76	76	143	118	168	199	137	143	188	65	60	68

RED RIVER BASIN

07369700 BAYOU MACON NEAR KILBOURNE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.95	1.71	11.42	2.41	13.11	---	2.92	2.47	---	2.83	1.58	2.54
2	1.89	1.97	8.58	2.36	12.55	---	2.79	2.62	---	2.71	1.57	2.14
3	1.80	2.62	7.61	2.26	11.79	---	2.70	3.34	---	---	1.56	1.95
4	1.80	3.00	7.70	2.19	10.76	---	2.64	5.02	---	---	1.55	1.89
5	1.79	2.42	7.38	2.22	9.37	---	2.59	6.36	---	---	1.58	1.85
6	1.77	2.06	6.85	2.41	7.86	---	2.55	7.29	---	2.28	1.62	1.84
7	1.78	1.98	6.14	2.88	6.66	---	2.50	15.65	---	2.24	1.65	1.86
8	1.87	1.96	5.48	---	5.86	5.56	2.47	22.93	---	2.52	1.76	1.75
9	2.07	1.92	5.42	---	5.29	5.38	2.42	23.12	---	3.00	2.26	1.70
10	2.02	1.90	4.91	---	4.82	4.97	2.45	21.94	---	3.00	2.69	1.68
11	1.99	1.87	4.39	---	4.44	4.64	2.96	20.12	---	2.83	2.70	1.67
12	1.88	1.85	3.97	---	4.76	4.43	3.36	20.59	---	2.72	2.58	1.73
13	1.87	---	5.52	---	6.26	4.30	3.01	21.07	---	2.62	2.81	1.88
14	1.87	---	9.08	---	5.17	4.29	2.78	19.80	---	2.54	2.75	1.99
15	1.85	---	8.06	---	4.57	5.55	2.63	18.42	---	2.77	2.38	2.12
16	1.83	---	6.91	---	4.30	7.92	2.55	17.08	---	2.81	2.15	2.05
17	1.81	---	6.50	---	4.13	8.75	2.50	16.09	---	2.75	1.91	1.91
18	1.81	---	6.10	---	3.79	8.37	2.44	14.90	---	2.32	1.83	1.76
19	1.81	---	5.51	---	3.39	7.51	2.45	13.82	---	2.08	1.83	1.71
20	1.80	---	5.09	---	2.99	6.66	2.84	12.93	---	2.05	1.81	1.72
21	1.78	---	4.68	---	2.84	6.00	3.03	12.24	---	---	1.77	1.76
22	1.78	---	4.22	---	---	5.60	2.79	11.74	---	---	1.71	1.77
23	1.77	---	3.79	---	---	5.11	2.72	11.16	---	---	1.71	1.82
24	1.78	---	3.46	---	---	4.73	2.74	10.29	---	---	1.76	1.80
25	1.81	---	3.25	---	---	4.49	3.33	---	---	---	1.80	1.76
26	1.78	---	3.06	16.43	---	4.20	3.15	---	---	---	1.95	1.71
27	1.75	---	2.85	15.63	---	3.90	2.86	---	---	---	1.99	1.70
28	1.73	---	2.70	15.15	---	3.66	2.62	---	---	---	1.90	1.71
29	1.73	---	2.62	14.76	---	3.43	2.48	---	3.17	---	2.53	1.72
30	1.71	---	2.55	14.26	---	3.23	2.40	---	3.01	---	3.50	1.71
31	1.71	---	2.47	13.68	---	3.08	---	---	---	---	3.22	---
MEAN	1.83	---	5.43	---	---	---	2.72	---	---	---	2.08	1.84
MAX	2.07	---	11.42	---	13.11	---	3.36	23.12	---	3.00	3.50	2.54
MIN	1.71	1.71	2.47	2.19	---	3.08	2.40	2.47	3.01	---	1.55	1.67

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.

REVISED RECORDS.--WDR LA-77-1: 1976.

GAGE.--Water-stage recorder. Datum of gage is 50.05 ft (15.255 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Mar. 14, 1949, nonrecording gage; Mar. 14, 1949, to Oct. 1, 1963, water-stage recorder; all gages within 2,000 ft (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) National Geodetic Vertical Datum of 1929. Prior to Mar. 9, 1972, auxiliary gages at different sites and datum. See WDR LA-76-1 for history of changes prior to Mar. 9, 1972.

REMARKS.--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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--43 years, 968 ft³/s (27.41 m³/s), 701,300 acre-ft/yr (865 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, 8,550 ft³/s (242 m³/s) May 9; maximum gage height, 21.90 ft (6.675 m) May 13; minimum daily discharge, 80 ft³/s (2.27 m³/s) Aug. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	118	4520	283	2580	271	331	283	1620	302	85	308
2	132	144	3990	256	2690	313	322	271	1710	283	80	271
3	129	171	3000	238	2490	382	310	301	2370	262	80	241
4	118	183	2500	228	1970	400	301	410	1950	280	80	186
5	113	212	2000	213	1500	423	289	531	1550	224	85	143
6	110	197	1700	215	1190	448	286	644	1440	189	90	113
7	105	166	1500	213	933	498	286	2920	1340	181	95	96
8	124	144	1200	240	719	531	274	6830	2230	196	100	91
9	186	153	1400	218	587	535	259	8430	2410	300	150	90
10	164	146	1500	225	506	531	250	8120	1960	283	200	89
11	145	132	1400	253	473	485	271	7480	1350	247	250	92
12	127	126	1200	403	456	460	280	7270	1070	226	300	96
13	117	122	1000	803	1740	407	316	7810	940	202	300	101
14	109	118	2500	773	1910	403	319	7230	834	178	300	148
15	108	117	2800	627	1000	389	310	6190	690	163	250	315
16	107	118	1450	644	541	452	295	5050	587	181	200	347
17	104	122	1120	1950	407	713	280	4130	518	210	172	250
18	105	119	971	2060	368	963	286	3600	481	222	152	186
19	107	118	773	1680	331	1000	274	3200	439	198	134	143
20	105	119	650	1540	301	910	262	2890	403	156	122	116
21	106	2120	531	1550	271	780	256	2750	386	126	122	106
22	107	3330	468	1560	253	679	256	2580	379	116	120	103
23	107	1800	423	1580	340	604	307	2270	372	106	110	102
24	113	1200	386	2660	304	564	372	1760	379	103	107	113
25	116	700	361	4760	298	510	523	1450	386	95	114	121
26	115	500	322	5500	283	477	552	1250	361	84	140	113
27	113	300	307	4050	265	448	427	1010	340	91	144	106
28	114	280	286	3440	274	418	351	1090	281	100	148	102
29	115	618	289	3080	---	396	307	2270	230	99	222	99
30	115	3320	301	2970	---	372	292	2230	266	99	307	101
31	114	---	292	2580	---	347	---	2340	---	94	328	---
TOTAL	3662	17013	41140	46792	24980	16109	9444	104590	29272	5596	5087	4488
MEAN	118	567	1327	1509	892	520	315	3374	976	181	164	150
MAX	186	3330	4520	5500	2690	1000	552	8430	2410	302	328	347
MIN	104	117	286	213	253	271	250	271	230	84	80	89
AC-FT	7260	33750	81600	92810	49550	31950	18730	207500	58060	11100	10090	8900
CAL YR 1977	TOTAL	241019	MEAN	660	MAX	7280	MIN	85	AC-FT	478100		
WTR YR 1978	TOTAL	308173	MEAN	844	MAX	8430	MIN	80	AC-FT	611300		

RED RIVER BASIN

07370000 BAYOU MACON NEAR DELHI, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.50	8.61	14.05	7.31	10.78	7.46	7.47	7.31	9.36	8.23	8.04	9.21
2	8.64	8.78	13.83	7.22	11.16	7.60	7.44	7.27	9.52	8.38	7.93	9.09
3	8.62	8.94	---	7.15	10.47	7.79	7.40	7.37	10.20	8.52	7.87	8.99
4	8.56	9.01	---	7.11	9.65	7.83	7.37	7.70	9.63	8.80	7.83	8.77
5	8.52	9.15	---	7.05	9.23	7.88	7.33	7.99	9.27	8.61	7.80	8.59
6	8.52	9.07	---	7.06	8.93	7.93	7.32	8.19	9.17	8.47	7.84	8.45
7	8.49	8.91	---	7.05	8.62	8.03	7.32	11.20	9.07	8.47	7.91	8.35
8	8.62	8.78	---	7.16	8.32	8.10	7.28	18.25	10.07	8.53	7.95	8.32
9	9.00	8.84	---	7.07	8.09	8.11	7.23	21.57	10.28	8.93	8.00	8.31
10	8.89	8.79	---	7.10	7.93	8.10	7.20	21.74	9.65	8.88	8.04	8.31
11	8.78	8.70	---	7.20	7.84	8.01	7.27	21.32	9.08	8.78	8.20	8.33
12	8.67	8.66	---	7.67	7.81	7.96	7.30	21.23	8.80	8.70	8.34	8.36
13	8.60	8.63	---	8.45	9.55	7.85	7.42	21.82	8.63	8.62	8.42	8.40
14	8.56	8.60	---	8.41	9.61	7.84	7.43	21.43	8.49	8.53	8.50	8.64
15	8.56	8.59	---	8.16	8.72	7.80	7.40	20.44	8.27	8.49	8.59	9.27
16	8.55	8.60	---	8.19	8.12	7.94	7.35	19.08	8.09	8.57	8.69	9.37
17	8.53	8.62	8.85	9.66	7.85	8.38	7.30	17.60	7.96	8.70	8.66	9.04
18	8.54	8.60	8.67	9.75	7.75	8.67	7.32	16.22	7.87	8.76	8.58	8.78
19	8.55	8.60	8.41	9.39	7.66	8.71	7.28	14.76	7.77	8.68	8.50	8.60
20	8.53	8.61	8.20	9.26	7.56	8.59	7.24	13.24	7.68	8.52	8.44	8.47
21	8.54	9.82	7.99	9.27	7.46	8.42	7.22	11.78	7.63	8.39	8.44	8.40
22	8.55	10.89	7.84	9.28	---	8.25	7.22	10.78	7.61	8.34	8.44	8.38
23	8.55	---	7.73	9.30	---	8.12	7.39	10.05	7.59	8.28	8.39	8.36
24	8.58	---	7.63	10.61	7.57	8.05	7.59	9.46	7.61	8.26	8.37	8.43
25	8.60	---	7.56	14.45	7.55	7.94	7.97	9.18	7.63	8.21	8.42	8.48
26	8.59	---	7.44	16.17	7.50	7.86	8.02	8.99	7.56	8.14	8.54	8.43
27	8.57	---	7.39	15.66	7.44	7.79	7.74	8.72	7.50	8.18	8.57	8.39
28	8.58	---	7.32	14.37	7.47	7.71	7.53	8.96	7.51	8.24	8.60	8.35
29	8.59	8.16	7.33	12.97	---	7.66	7.39	10.05	7.55	8.23	8.90	8.33
30	8.59	11.18	7.37	11.73	---	7.59	7.34	9.98	7.89	8.23	9.20	8.34
31	8.58	---	7.34	10.76	---	7.52	---	10.16	---	8.20	9.28	---
MEAN	8.60	---	---	9.42	---	7.98	7.40	13.35	8.50	8.48	8.36	8.58
MAX	9.00	11.18	14.05	16.17	11.16	8.71	8.02	21.82	10.28	8.93	9.28	9.37
MIN	8.49	---	7.32	7.05	---	7.46	7.20	7.27	7.50	8.14	7.80	8.31

RED RIVER BASIN

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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, October 1977 to current year. November 1957 to September 1977 (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) National Geodetic Vertical Datum of 1929. Prior to Nov. 29, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good. Water used by paper mill at Hodge is pumped from wells and discharged into stream about 7 mi (11 km) above station. Most of effluent is discharged continually whenever mill is operating, but some waste water is stored in a reservoir and released whenever river flow is sufficient to materially dilute it. Records of dissolved oxygen and water temperatures for the water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--20 years (1938-57, 1978), 419 ft³/s (11.87 m³/s), 303,600 acre-ft/yr (374 hm³/yr).

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. 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, 7,370 ft³/s (209 m³/s) May 9, gage height, 15.39 ft (4.691 m); minimum, 6.1 ft³/s (0.17 m³/s) July 26, 27, gage height, 3.04 ft (0.927 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	84	38	391	124	113	48	72	24	20	38
2	18	22	96	46	428	123	99	50	78	28	21	44
3	21	24	109	43	472	128	88	45	79	27	21	34
4	22	23	82	40	492	130	80	56	59	33	20	29
5	23	23	59	38	452	123	73	53	54	26	18	27
6	22	24	49	38	364	115	67	55	49	22	18	19
7	22	24	42	37	281	115	62	1780	42	18	19	13
8	22	24	38	38	224	155	57	6580	48	20	20	16
9	26	30	36	38	188	197	56	6970	42	20	23	20
10	28	31	36	36	164	233	54	5910	36	20	29	22
11	25	25	34	36	149	222	60	3900	32	21	27	21
12	23	25	33	45	140	190	71	2600	33	21	22	20
13	22	27	40	52	225	197	103	1900	33	20	21	23
14	22	24	103	48	399	188	134	1320	26	16	19	27
15	21	24	120	50	486	186	103	954	22	21	18	34
16	21	23	139	60	550	178	75	811	22	25	18	40
17	21	22	134	129	580	161	61	647	21	20	21	38
18	20	21	95	172	474	137	54	393	20	16	20	46
19	20	20	70	207	373	114	49	224	21	14	21	41
20	21	21	59	228	332	100	43	154	20	16	24	34
21	20	22	52	182	303	96	40	122	19	15	21	29
22	20	29	45	144	257	100	38	100	19	11	23	26
23	20	27	41	125	213	99	36	87	22	8.0	21	23
24	22	50	39	201	177	112	35	76	22	7.4	22	22
25	26	56	38	474	158	217	41	68	19	6.8	20	22
26	25	39	32	685	147	309	50	61	18	6.2	20	23
27	22	30	27	793	136	342	44	54	19	6.2	21	22
28	22	26	25	796	128	282	47	50	19	12	21	22
29	23	26	25	790	---	204	44	210	18	19	31	21
30	22	56	30	673	---	156	38	280	18	22	45	21
31	21	---	34	472	---	130	---	142	---	20	38	---
TOTAL	681	839	1846	6754	8683	5163	1915	35700	1002	561.6	703	817
MEAN	22.0	28.0	59.5	218	310	167	63.8	1152	33.4	18.1	22.7	27.2
MAX	28	56	139	796	580	342	134	6970	79	33	45	46
MIN	18	20	25	36	128	96	35	45	18	6.2	18	13
AC-FT	1350	1660	3660	13400	17220	10240	3800	70810	1990	1110	1390	1620

WTR YR 1978 TOTAL 64664.6 MEAN 177 MAX 6970 MIN 6.2 AC-FT 128300

RED RIVER BASIN

07371500 DUGDEMONA RIVER NEAR JONESBORO, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.44	3.58	5.31	4.23	8.90	5.97	5.80	4.52	5.17	3.83	3.68	4.24
2	3.44	3.67	5.52	4.47	9.15	5.95	5.56	4.58	5.32	3.98	3.73	4.44
3	3.56	3.75	5.74	4.41	9.41	6.03	5.38	4.45	5.34	3.93	3.73	4.11
4	3.61	3.73	5.29	4.29	9.51	6.05	5.24	4.71	4.84	4.13	3.68	3.95
5	3.67	3.71	4.81	4.24	9.31	5.96	5.10	4.64	4.73	3.91	3.61	3.89
6	3.63	3.79	4.54	4.23	8.70	5.84	4.99	4.69	4.60	3.75	3.60	3.60
7	3.61	3.81	4.35	4.20	7.96	5.84	4.87	10.33	4.44	3.60	3.65	3.33
8	3.64	3.78	4.22	4.22	7.31	6.41	4.76	15.10	4.58	3.71	3.70	3.46
9	3.78	4.03	4.15	4.22	6.86	6.97	4.72	15.28	4.42	3.69	3.81	3.62
10	3.90	4.08	4.16	4.18	6.55	7.42	4.68	14.77	4.25	3.69	4.01	3.67
11	3.76	3.86	4.10	4.16	6.33	7.29	4.82	13.72	4.12	3.72	3.92	3.66
12	3.68	3.86	4.07	4.45	6.20	6.89	5.05	12.89	4.14	3.74	3.77	3.62
13	3.63	3.95	4.30	4.62	7.32	6.97	5.63	12.26	4.13	3.68	3.72	3.70
14	3.62	3.86	5.63	4.52	8.96	6.86	6.11	11.54	3.91	3.56	3.67	3.82
15	3.61	3.84	5.92	4.57	9.48	6.84	5.63	10.95	3.76	3.72	3.62	4.07
16	3.59	3.81	6.19	4.83	9.76	6.73	5.14	10.62	3.77	3.88	3.62	4.26
17	3.57	3.76	6.11	6.04	9.88	6.50	4.84	10.11	3.72	3.71	3.74	4.20
18	3.55	3.72	5.50	6.65	9.42	6.15	4.68	8.99	3.71	3.56	3.71	4.40
19	3.55	3.72	5.05	7.10	8.77	5.82	4.54	7.76	3.73	3.45	3.74	4.27
20	3.57	3.74	4.80	7.36	8.44	5.61	4.39	6.82	3.70	3.56	3.82	4.04
21	3.55	3.81	4.62	6.79	8.18	5.52	4.31	6.22	3.65	3.49	3.73	3.88
22	3.54	4.12	4.44	6.26	7.69	5.58	4.24	5.78	3.66	3.32	3.81	3.77
23	3.55	4.05	4.32	5.98	7.17	5.57	4.16	5.51	3.75	3.15	3.73	3.68
24	3.64	4.67	4.28	7.03	6.73	5.77	4.13	5.28	3.75	3.12	3.76	3.65
25	3.81	4.75	4.23	9.42	6.45	7.20	4.33	5.07	3.65	3.09	3.71	3.66
26	3.77	4.39	4.04	10.25	6.30	8.23	4.56	4.91	3.63	3.05	3.69	3.67
27	3.64	4.15	3.83	10.58	6.14	8.52	4.42	4.73	3.66	3.05	3.71	3.65
28	3.62	3.99	3.76	10.59	6.03	7.95	4.51	4.61	3.67	3.34	3.72	3.63
29	3.67	4.00	3.75	10.57	---	7.06	4.41	7.43	3.63	3.66	4.03	3.62
30	3.63	4.72	3.98	10.21	---	6.43	4.23	8.26	3.64	3.75	4.49	3.62
31	3.60	---	4.10	9.41	---	6.06	---	6.57	---	3.69	4.27	---
MEAN	3.63	3.96	4.68	6.26	7.96	6.52	4.84	8.16	4.10	3.60	3.78	3.84
MAX	3.90	4.75	6.19	10.59	9.88	8.52	6.11	15.28	5.34	4.13	4.49	4.44
MIN	3.44	3.58	3.75	4.16	6.03	5.52	4.13	4.45	3.63	3.05	3.60	3.33

RED RIVER BASIN

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07371540 FOUSE BAYOU AT STATE HIGHWAY 155, NEAR DANVILLE, LA

LOCATION.--Lat 32°13'50", long 92°55'11", in NW¼ sec.6, T.14 N., R.5 W., Bienville Parish, Hydrologic Unit 08040303, near left bank on upstream side of culvert on State Highway 155, 0.4 mi (0.6 km) southwest of intersection with State Highway 4, and 5.0 mi (8.0 km) west of Danville, La.

DRAINAGE AREA.--Approximately 1.5 mi² (3.9 km²).

PERIOD OF RECORD.--June 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 190 ft (58 m). Auxiliary water-stage recorder 60 ft (18 m) downstream from base gage at same datum.

REMARKS.--Records poor. Records of dissolved oxygen and water temperatures for the water year 1978 are published under miscellaneous water-quality sites in this report.

EXTREMES FOR CURRENT PERIOD.--June to September 1977: Maximum discharge, 0.98 ft³/s (0.028 m³/s) Aug. 24, gage height, 4.68 ft (1.426 m); no flow June 17-18.

Water year 1978: Maximum discharge, 306 ft³/s (8.67 m³/s) May 7, gage height 8.36 ft (2.548 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, JUNE TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	.05	.05	.05
2									---	.05	.05	.05
3									---	.05	.05	.05
4									---	.05	.05	.05
5									---	.05	.07	.05
6									---	.04	.05	.05
7									---	.03	.05	.05
8									---	.02	.05	.05
9									---	.04	.05	.05
10									---	.05	.05	.05
11									---	.04	.05	.05
12									---	.03	.05	.05
13									---	.05	.05	.07
14									---	.04	.05	.06
15									---	.04	.05	.05
16									---	.03	.05	.05
17									.03	.02	.05	.05
18									0	.01	.06	.05
19									0	.02	.05	.06
20									.03	.05	.05	.05
21									.05	.04	.07	.05
22									.05	.02	.05	.05
23									.05	.06	.05	.05
24									.05	.03	.12	.05
25									.05	.01	.05	.05
26									.05	.05	.05	.05
27									.05	.05	.05	.03
28									.05	.05	.07	.05
29									.05	.05	.05	.05
30									.05	.05	.05	.05
31									---	.05	.05	---
TOTAL									---	1.22	1.69	1.52
MEAN									---	.039	.055	.051
MAX									---	.06	.12	.07
MIN									---	.01	.05	.03
AC-FT									---	2.4	3.4	3.0

RED RIVER BASIN

07371540 FOUSE BAYOU AT STATE HIGHWAY 155, NEAR DANVILLE, LA--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.05	.05	.05	4.9	.15	.14	0	2.4	.01		0
2	.04	.05	.05	.05	2.5	.15	.08	0	18	0		0
3	.02	.05	.05	.05	.91	.15	.04	.04	1.3	0		0
4	.05	.05	.05	.05	.46	.15	.05	0	.35	.01		0
5	.05	.05	.05	.05	.36	.15	.04	0	.13	0		0
6	.04	.05	.05	.05	.15	.15	.05	0	.05	0		0
7	.03	.05	.05	.05	.15	1.2	.04	99	.05	0		0
8	.04	.12	.05	.05	.10	1.6	.04	9.2	.05	0		0
9	.03	.05	.06	.05	.05	.77	.04	3.8	.02	0		0
10	.02	.05	.05	.05	.05	.43	.05	.61	0	0		0
11	.03	.05	.05	.05	.05	.36	.31	.24	0	0		0
12	.01	.05	.05	.05	.96	.47	.21	3.9	.01	0		0
13	0	.05	.30	.05	5.7	.64	.14	1.1	.02	0		0
14	0	.05	.10	.05	1.5	.64	.15	.26	.02	0		.04
15	0	.05	.05	.05	.62	.50	.09	.08	.03	0		.02
16	0	.05	.05	.63	.36	.31	.05	.05	.05	0		0
17	0	.05	.05	.12	.44	.15	.05	.05	.05	0		0
18	0	.05	.05	.07	.77	.15	.05	.05	.03	0		0
19	0	.05	.05	.15	.68	.15	.05	.05	.04	0		0
20	0	.05	.05	.15	.38	.15	.05	.05	.05	0		0
21	0	.08	.05	.15	.32	.15	.05	.06	.05	0		0
22	0	.05	.05	.15	.15	.15	.05	.05	.05	0		0
23	.01	.05	.05	.24	.15	.15	.05	.05	.05	0		0
24	.05	.05	.05	11	.15	1.7	.05	.05	.05	0		0
25	.05	.05	.05	5.0	.15	1.2	.07	.05	.05	0		0
26	.05	.05	.05	3.4	.15	.53	.05	.05	.03	0		0
27	.05	.05	.05	.93	.15	.32	.05	.05	.01	0		0
28	.05	.05	.05	.42	.15	.16	.05	.13	0	0		0
29	.05	.38	.15	.26	---	.11	.03	.36	0	0		0
30	.05	.34	.05	.22	---	.13	0	.28	0	0		0
31	.05	---	.05	.69	---	.11	---	.11	---	0		---
TOTAL	.81	2.22	1.96	24.33	22.46	13.13	2.17	119.72	22.94	.02	0	.06
MEAN	.026	.074	.063	.78	.80	.42	.072	3.86	.76	.0006	0	.002
MAX	.05	.38	.30	11	5.7	1.7	.31	99	18	.01	0	.04
MIN	0	.05	.05	.05	.05	.11	0	0	0	0	0	0
AC-FT	1.6	4.4	3.9	48	45	26	4.3	237	46	.04	0	.1

07371540 FOUSE BAYOU AT STATE HIGHWAY 155, NEAR DANVILLE, 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									---	4.60	4.60	4.60
2									---	4.60	4.60	4.60
3									---	4.60	4.54	4.60
4									---	4.60	4.60	4.60
5									---	4.60	4.60	4.60
6									---	4.60	4.60	4.60
7									---	4.59	4.60	4.60
8									---	4.59	4.60	4.60
9									---	4.60	4.60	4.60
10									---	4.60	4.60	4.60
11									---	4.60	4.60	4.60
12									---	4.59	4.60	4.60
13									---	4.60	4.60	4.60
14									---	4.59	4.60	4.60
15									---	4.59	4.60	4.60
16									---	4.59	4.60	4.60
17									4.59	4.59	4.60	4.60
18									4.58	4.58	4.60	4.60
19									4.58	4.59	4.60	4.60
20									4.59	4.60	4.60	4.60
21									4.60	4.60	4.60	4.60
22									4.60	4.58	4.60	4.60
23									4.60	4.60	4.60	4.60
24									4.60	4.59	4.61	4.60
25									4.60	4.58	4.60	4.60
26									4.60	4.60	4.60	4.60
27									4.60	4.60	4.60	4.59
28									4.60	4.60	4.60	4.60
29									4.60	4.60	4.60	4.60
30									4.60	4.60	4.60	4.60
31									---	4.60	4.60	---
MEAN									---	4.60	4.60	4.60
MAX									---	4.60	4.61	4.60
MIN									---	4.58	4.54	4.59

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.59	4.60	4.60	---	4.85	4.62	4.58	4.57	4.69	4.58	4.34	4.44
2	4.60	4.60	4.60	---	4.75	4.62	4.54	4.58	5.18	4.58	4.34	4.39
3	4.59	4.60	4.60	---	4.67	4.62	4.52	4.59	4.70	4.58	4.34	4.38
4	4.60	4.60	4.60	---	4.65	4.62	4.56	4.47	4.64	4.58	4.34	4.44
5	4.60	4.60	4.60	4.60	4.64	4.62	4.46	4.38	4.62	4.58	4.34	4.41
6	4.59	4.60	4.60	4.60	4.62	4.62	4.58	4.55	4.60	4.58	4.34	4.36
7	4.59	4.60	---	4.60	4.62	4.69	4.49	4.59	4.59	4.58	4.34	4.34
8	4.60	4.61	---	4.60	4.61	4.71	4.45	4.99	4.60	4.58	4.34	4.34
9	4.59	4.60	---	4.60	4.60	4.66	4.54	4.80	4.59	4.58	4.34	4.34
10	4.59	4.60	---	4.60	4.60	4.65	4.44	4.66	4.58	4.56	4.34	4.34
11	4.59	4.60	---	4.60	4.60	4.64	4.58	4.62	4.58	4.55	4.34	4.44
12	4.58	4.60	---	4.60	4.65	4.65	4.48	4.81	4.59	4.54	4.34	4.55
13	4.58	4.60	---	4.60	4.88	4.66	4.58	4.69	4.59	4.52	4.34	4.54
14	4.58	4.60	---	4.60	4.71	4.66	4.62	4.63	4.59	4.49	4.34	4.58
15	4.58	4.60	---	4.60	4.66	4.65	4.61	4.61	4.59	4.47	4.34	4.59
16	4.58	4.60	---	4.64	4.64	4.63	4.60	4.60	4.60	4.44	4.34	4.58
17	4.58	4.60	---	4.61	4.65	4.62	4.60	4.60	4.60	4.36	4.34	4.55
18	4.58	4.60	---	4.60	4.67	4.62	4.60	4.60	4.59	4.36	4.34	4.52
19	4.58	4.60	---	4.62	4.66	4.62	4.60	4.60	4.60	4.35	4.34	4.48
20	4.58	4.60	---	4.62	4.64	4.62	4.60	4.60	4.60	4.36	4.34	4.45
21	4.58	4.61	---	4.62	4.64	4.62	4.60	4.60	4.60	4.36	4.34	4.40
22	4.58	4.60	---	4.62	4.62	4.62	4.60	4.60	4.60	4.36	4.34	4.36
23	4.59	4.60	---	4.63	4.62	4.62	4.60	4.60	4.60	4.36	4.34	4.34
24	4.60	4.60	---	5.04	4.62	4.72	4.60	4.60	4.60	4.35	4.34	4.34
25	4.60	4.60	---	4.86	4.62	4.69	4.60	4.60	4.60	4.34	4.34	4.34
26	4.60	4.60	---	4.79	4.62	4.65	4.60	4.60	4.59	4.34	4.34	4.34
27	4.60	4.60	---	4.68	4.62	4.59	4.60	4.60	4.58	4.34	4.34	4.34
28	4.60	4.60	---	4.64	4.62	4.45	4.60	4.61	4.58	4.34	4.34	4.34
29	4.60	4.63	---	4.63	---	4.50	4.50	4.64	4.58	4.34	4.55	4.34
30	4.60	4.63	---	4.63	---	4.53	4.41	4.63	4.58	4.34	4.55	4.34
31	4.60	---	---	4.66	---	4.49	---	4.61	---	4.34	4.49	---
MEAN	4.59	4.60	---	---	4.66	4.62	4.56	4.67	4.62	4.45	4.36	4.42
MAX	4.60	4.63	---	5.04	4.88	4.72	4.62	6.17	5.18	4.58	4.55	4.59
MIN	4.58	4.60	---	4.60	4.60	4.45	4.41	4.38	4.58	4.34	4.34	4.34

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 Kylaies Creek, and 3.5 mi (5.6 km) north of Winnfield.

DRAINAGE AREA.--654 mi² (1,694 km²).

PERIOD OF RECORD.--April 1939 to September 1977. October 1977 to current year (annual maximum and gage heights only).

REVISED RECORDS.--WSP 1341: Drainage area. WSP 1391: 1939-41.

GAGE.--Water-stage recorder. Datum of gage is 81.14 ft (24.731 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 19, 1950, nonrecording gage at same site and datum.

REMARKS.--Water used by paper mill at Hodge is pumped from wells and discharged into stream about 30 mi (48 km) above station. Most of effluent is discharged continually whenever mill is operating, but some waste water is stored in a reservoir and released whenever river flow is sufficient to materially dilute it.

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, 8,300 ft³/s (235 m³/s) May 11, gage height, 18.38 ft (5.602 m); minimum gage height, 1.96 ft (0.597 m) July 31 and Aug. 1.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.85	3.17	4.52	2.96	11.52	5.47	6.34	2.96	8.23	2.44	1.98	2.93
2	2.86	3.19	4.91	3.14	12.37	5.28	5.50	2.93	9.20	2.39	2.29	3.00
3	2.86	3.20	5.13	3.25	12.43	5.16	4.94	2.94	9.04	2.40	2.50	3.01
4	2.83	3.17	4.81	3.22	12.22	5.09	4.58	3.51	7.61	2.41	2.56	2.99
5	2.81	3.38	4.36	3.25	11.71	5.01	4.31	3.65	6.45	2.47	2.58	3.00
6	2.79	3.32	4.14	3.24	10.89	4.97	4.10	3.94	5.72	2.54	2.61	2.97
7	2.78	3.32	3.88	3.17	10.06	5.13	3.91	5.58	4.97	2.63	2.63	2.87
8	2.87	3.32	3.58	3.69	9.52	5.78	3.76	9.44	4.36	2.62	2.63	2.79
9	2.90	3.52	3.36	4.76	9.04	6.13	3.61	12.38	3.80	2.55	2.62	2.72
10	2.92	3.51	3.22	3.64	8.46	6.47	3.46	17.15	3.39	2.45	2.66	2.62
11	2.99	3.32	3.11	3.35	7.58	6.50	3.44	18.37	3.22	2.37	2.69	2.54
12	2.98	3.54	3.07	3.33	6.62	6.42	3.57	18.22	3.08	2.36	2.70	2.46
13	3.00	3.55	3.11	3.93	8.23	6.66	3.76	17.60	2.92	2.35	2.72	2.52
14	2.98	3.40	8.12	4.05	10.10	6.99	3.77	16.87	2.80	2.34	2.77	2.64
15	2.94	3.27	9.28	3.85	10.14	7.49	3.78	16.19	2.71	2.34	2.77	2.67
16	2.92	3.21	8.68	3.87	10.17	7.84	4.00	15.44	2.71	2.35	2.73	2.69
17	2.89	3.19	7.94	7.86	9.77	7.56	4.21	14.60	2.65	2.34	2.69	2.74
18	2.88	3.13	6.40	8.82	9.39	6.74	4.25	13.74	2.57	2.29	2.67	2.83
19	2.90	3.10	9.39	8.23	9.46	6.08	4.41	12.84	2.49	2.31	2.65	2.92
20	2.93	3.05	4.98	8.10	9.58	5.63	3.91	11.86	2.44	2.39	2.64	2.94
21	2.93	3.05	4.49	7.56	9.67	5.32	3.61	10.80	2.41	2.37	2.67	2.96
22	2.92	3.00	3.98	7.09	9.49	5.05	3.35	9.42	2.41	2.32	2.74	2.98
23	2.97	3.01	3.66	6.97	8.99	5.02	3.12	7.22	2.41	2.29	2.76	2.93
24	3.07	3.05	3.45	8.61	8.28	5.21	2.98	5.17	2.39	2.31	2.78	2.84
25	3.17	3.16	3.30	12.12	7.56	7.77	2.91	4.39	2.35	2.33	2.78	2.76
26	3.27	3.32	3.17	13.15	6.85	7.67	2.83	3.99	2.34	2.28	2.79	2.70
27	3.25	3.54	3.10	13.28	6.19	7.63	2.78	3.71	2.37	2.27	2.77	2.64
28	3.21	3.62	3.06	13.11	5.72	7.26	2.85	3.49	2.36	2.16	2.77	2.61
29	3.20	3.52	3.04	12.78	---	7.15	2.97	3.43	2.33	2.08	2.96	2.59
30	3.17	3.67	2.98	12.16	---	7.19	2.98	4.56	2.33	2.03	2.88	2.60
31	3.15	---	2.94	11.53	---	7.01	---	6.99	---	1.99	2.91	---
MEAN	2.97	3.29	4.49	6.71	9.36	6.28	3.80	9.14	3.80	2.35	2.67	2.78
MAX	3.27	3.67	9.28	13.28	12.43	7.84	6.34	18.37	9.20	2.63	2.96	3.01
MIN	2.78	3.00	2.94	2.96	5.72	4.97	2.78	2.93	2.33	1.99	1.98	2.46

RED RIVER BASIN

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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) National Geodetic Vertical Datum of 1929. 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, 7.07 ft (2.155 m) Aug. 6, 1978.

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, 36.76 ft (11.204 m) May 11; minimum, 7.07 ft (2.155 m) Aug. 6.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.33	7.56	16.44	9.93	29.27	13.57	14.19	9.66	17.09	9.59	7.63	8.39
2	7.35	10.36	16.72	9.83	29.97	13.11	13.95	9.72	17.94	9.01	7.55	8.53
3	7.33	10.00	16.03	9.75	30.24	12.78	13.65	9.86	18.31	8.97	7.44	8.86
4	7.33	9.39	15.04	9.82	30.07	12.57	13.30	9.92	18.50	9.21	7.30	8.32
5	7.31	8.87	14.01	9.97	29.53	12.40	13.12	10.04	18.09	9.96	7.17	8.14
6	7.21	8.61	13.02	9.94	28.72	12.28	13.15	10.27	16.76	9.13	7.09	8.03
7	7.14	8.42	12.21	9.82	27.52	12.46	13.29	14.31	15.78	8.88	7.13	7.55
8	7.17	8.38	11.59	9.75	25.60	13.87	13.41	24.61	16.30	8.71	7.17	7.80
9	7.41	9.16	11.20	10.55	23.03	14.92	13.43	29.34	15.88	8.45	7.16	7.75
10	7.50	9.43	10.88	13.22	20.51	15.18	13.40	34.86	14.82	8.24	7.15	7.67
11	7.97	9.03	10.40	14.00	18.47	15.21	13.45	36.67	13.65	8.09	7.22	7.58
12	7.96	8.68	9.89	13.21	17.15	15.01	13.43	36.59	12.55	7.93	10.71	7.54
13	7.82	8.43	10.12	12.06	22.14	14.64	13.35	36.32	11.62	7.81	8.68	7.51
14	7.76	8.25	15.41	11.61	25.54	14.39	13.30	36.26	10.94	7.78	7.90	7.42
15	7.71	8.26	17.92	11.88	26.04	14.42	13.22	36.07	10.38	7.71	7.45	7.34
16	7.64	8.37	18.49	12.24	25.55	14.55	13.05	35.67	9.91	7.60	7.34	7.33
17	7.57	8.29	18.70	16.17	24.68	14.60	12.86	35.10	9.49	7.50	7.31	7.46
18	7.50	8.15	18.26	18.82	23.52	14.48	12.69	34.39	9.11	7.43	7.27	7.45
19	7.43	8.05	17.04	19.69	22.11	14.18	13.25	33.40	8.81	7.37	7.24	7.47
20	7.37	7.95	15.59	19.90	20.71	13.76	13.50	32.04	8.62	7.33	7.18	7.52
21	7.31	7.97	14.41	19.50	19.57	13.40	12.85	30.23	8.82	7.29	7.29	7.57
22	7.26	8.10	13.67	18.68	18.73	13.12	12.08	27.92	8.44	7.25	7.25	7.61
23	7.27	8.02	13.07	17.94	18.09	12.91	11.46	25.32	8.18	7.28	7.51	7.62
24	7.72	7.87	12.36	20.21	17.44	13.71	10.97	22.61	8.08	7.38	7.14	7.73
25	7.65	7.81	11.71	26.04	16.70	14.14	10.57	20.00	7.98	7.62	7.09	7.82
26	7.53	7.75	11.08	28.13	15.83	15.28	10.11	18.18	7.87	7.49	7.08	7.76
27	7.43	7.70	10.40	29.09	14.98	15.74	9.80	17.27	7.80	11.28	7.09	7.64
28	7.46	7.70	9.82	29.61	14.21	15.62	9.67	16.76	7.84	9.36	7.10	7.52
29	7.61	8.43	9.61	29.77	---	15.24	9.64	16.66	7.83	8.89	7.95	7.42
30	7.60	13.80	9.88	29.62	---	14.77	9.65	17.34	7.92	8.11	9.08	7.34
31	7.52	---	9.99	29.21	---	14.42	---	17.33	---	7.79	8.85	---
MEAN	7.49	8.63	13.39	17.10	22.71	14.09	12.46	24.02	11.84	8.27	7.57	7.72
MAX	7.97	13.80	18.70	29.77	30.24	15.74	14.19	36.67	18.50	11.28	10.71	8.86
MIN	7.14	7.56	9.61	9.75	14.21	12.28	9.64	9.66	7.80	7.25	7.08	7.33

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) National Geodetic Vertical Datum of 1929. 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. Natural flow is supplemented by effluent from operation of several oilfields upstream from station.

AVERAGE DISCHARGE.--21 years, 1,972 ft³/s (55.85 m³/s), 14.10 in/yr (358 mm/yr), 1,429,000 acre-ft/yr (1.76 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, 14,900 ft³/s (422 m³/s) May 12, gage height, 33.71 ft (10.275 m); minimum, 29 ft³/s (0.82 m³/s) Oct. 8, gage height, 5.35 ft (1.631 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	39	53	1240	271	4980	688	802	167	1040	195	63	125		
2	40	266	1300	260	5250	617	736	165	1220	180	55	124		
3	39	278	1170	250	5370	573	649	182	1370	161	48	126		
4	37	217	980	254	5300	546	535	202	1600	185	41	114		
5	37	169	799	268	5070	524	427	220	1490	251	36	100		
6	34	141	647	268	4730	510	347	252	1140	190	34	92		
7	31	123	537	256	4230	546	295	1010	885	161	34	80		
8	31	113	459	248	3480	784	263	3410	965	144	34	72		
9	38	162	411	310	2750	954	245	5370	917	123	34	68		
10	44	209	373	634	2110	1000	229	8880	748	105	34	64		
11	66	180	321	789	1650	1000	261	13900	556	92	34	59		
12	79	147	267	675	1370	964	253	14600	393	80	245	54		
13	71	124	282	516	2560	891	247	13900	298	71	191	53		
14	65	107	1000	460	3390	852	257	13700	249	67	100	49		
15	62	103	1540	494	3620	863	282	13300	224	64	53	44		
16	58	109	1640	541	3490	887	280	12400	207	59	49	42		
17	52	107	1680	1180	3240	894	269	11400	191	52	44	45		
18	50	97	1600	1740	2950	871	290	10300	176	47	40	47		
19	46	88	1370	1920	2550	812	522	9100	162	43	40	48		
20	41	81	1080	1960	2190	736	593	7570	153	40	39	49		
21	39	79	867	1890	1910	678	480	5760	169	38	41	52		
22	36	87	744	1710	1730	635	365	4150	138	37	39	55		
23	35	87	655	1550	1580	603	298	3120	112	37	39	55		
24	50	77	557	2090	1440	650	256	2270	99	41	38	59		
25	57	70	474	3640	1280	814	223	1430	91	58	37	66		
26	51	66	397	4390	1110	1020	194	798	82	53	37	66		
27	45	63	321	4850	944	1110	167	476	77	347	37	61		
28	43	62	260	5130	800	1090	152	343	79	207	37	56		
29	48	100	235	5220	---	1010	152	451	78	172	67	50		
30	52	717	262	5150	---	921	158	940	79	108	161	45		
31	49	---	276	4960	---	854	---	1040	---	77	164	---		
TOTAL	1465	4282	23744	53874	81074	24897	10227	160806	14988	3485	1945	2020		
MEAN	47.3	143	766	1738	2896	803	341	5187	500	112	62.7	67.3		
MAX	79	717	1680	5220	5370	1110	802	14600	1600	347	245	126		
MIN	31	53	235	248	800	510	152	165	77	37	34	42		
CFSM	.03	.08	.41	.92	1.54	.43	.18	2.76	.27	.06	.03	.04		
IN.	.03	.08	.47	1.07	1.60	.49	.20	3.18	.30	.07	.04	.04		
AC-FT	2910	8490	47100	106900	160800	49380	20290	319000	29730	6910	3860	4010		
CAL YR 1977	TOTAL	524028	MEAN	1436	MAX	17000	MIN	30	CFSM	.76	IN	10.37	AC-FT	1039000
WTR YR 1978	TOTAL	382807	MEAN	1049	MAX	14600	MIN	31	CFSM	.56	IN	7.57	AC-FT	759300

RED RIVER BASIN

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07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.53	5.75	14.24	8.30	26.15	12.17	12.72	9.29	16.41	7.30	5.96	6.74
2	5.56	7.88	14.75	8.19	26.98	11.78	12.67	9.36	17.17	7.42	5.83	6.65
3	5.53	8.43	14.08	8.08	27.24	11.49	12.60	9.47	17.38	7.10	5.71	6.68
4	5.50	7.85	13.14	8.04	27.03	11.30	12.54	9.43	17.23	7.32	5.59	6.53
5	5.49	7.36	12.18	8.14	26.53	11.16	12.63	9.50	16.91	7.89	5.51	6.36
6	5.45	6.98	11.24	8.17	25.81	11.03	12.84	9.61	15.80	7.52	5.49	6.24
7	5.39	6.76	10.45	8.08	24.79	11.16	13.08	12.49	15.00	7.16	5.48	6.10
8	5.38	6.59	9.85	8.01	23.20	12.23	13.25	20.97	15.51	6.96	5.46	5.98
9	5.51	6.99	9.43	8.29	20.95	13.23	13.29	24.91	15.06	6.74	5.46	5.92
10	5.61	7.56	9.14	10.50	18.64	13.45	13.28	29.11	14.04	6.52	5.46	5.86
11	5.91	7.38	8.74	11.79	16.71	13.47	13.29	32.79	12.99	6.35	5.46	5.78
12	6.15	7.07	8.28	11.39	15.45	13.30	13.28	33.65	12.02	6.19	7.58	5.71
13	6.05	6.78	8.25	10.42	19.89	13.00	13.21	33.37	11.18	6.06	7.75	5.68
14	5.96	6.56	12.71	9.83	23.32	12.75	13.14	33.19	10.52	5.98	6.64	5.63
15	5.90	6.46	15.70	9.94	23.63	12.72	13.02	33.00	9.92	5.94	5.97	5.55
16	5.84	6.52	16.12	10.31	23.00	12.81	12.84	32.56	9.39	5.89	5.65	5.50
17	5.75	6.52	16.26	13.76	22.13	12.86	12.65	31.95	8.90	5.76	5.55	5.54
18	5.73	6.41	15.97	16.60	21.10	12.78	12.42	31.25	8.43	5.68	5.50	5.57
19	5.67	6.30	15.01	17.27	19.88	12.56	12.51	30.41	8.03	5.61	5.48	5.59
20	5.58	6.20	13.71	17.46	18.59	12.22	12.61	29.41	7.67	5.56	5.47	5.60
21	5.54	6.15	12.58	17.18	17.50	11.91	12.13	28.09	7.50	5.53	5.48	5.65
22	5.48	6.25	11.79	16.50	16.68	11.69	11.52	26.27	7.18	5.51	5.47	5.70
23	5.45	6.28	11.23	15.85	16.07	11.52	10.98	23.95	6.77	5.50	5.47	5.70
24	5.67	6.15	10.60	18.10	15.49	11.67	10.54	21.49	6.51	5.55	5.47	5.75
25	5.82	6.04	9.98	23.63	14.84	12.45	10.16	19.33	6.39	5.87	5.46	5.86
26	5.75	5.98	9.41	25.59	14.10	13.43	9.72	17.87	6.28	5.79	5.45	5.88
27	5.64	5.93	8.81	26.26	13.38	13.86	9.46	17.12	6.20	8.71	5.45	5.81
28	5.59	5.91	8.24	26.44	12.72	13.80	9.37	16.67	6.20	8.32	5.45	5.70
29	5.66	6.30	7.94	26.44	---	13.49	9.33	16.51	6.19	7.40	5.86	5.60
30	5.73	10.96	8.13	26.30	---	13.10	9.32	16.81	6.18	6.70	6.98	5.53
31	5.71	---	8.31	26.02	---	12.83	---	16.68	---	6.19	7.15	---
MEAN	5.66	6.81	11.49	14.87	20.42	12.49	12.01	22.15	10.83	6.52	5.83	5.88
MAX	6.15	10.96	16.26	26.44	27.24	13.86	13.29	33.65	17.38	8.71	7.75	6.74
MIN	5.38	5.75	7.94	8.01	12.72	11.03	9.32	9.29	6.18	5.50	5.45	5.50

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.

REMARKS.--Specific conductance recorder was temporarily out of operation Nov. 6, 1977 to July 25, 1978.

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)
OCT												
12...	1800	1750	7.6	19.0	20	25	--	--	<5	340	91	0
NOV												
01...	1415	1140	7.7	21.5	160	25	7.2	--	K70	500	81	0
DEC												
16...	1225	253	6.3	11.5	80	40	9.1	2.8	3800	4000	36	15
JAN												
27...	1200	100	6.0	6.0	80	40	10.4	2.7	470	640	20	13
FEB												
20...	1545	194	6.5	7.0	40	20	10.8	2.8	1300	130	22	3
MAR												
14...	1930	260	6.5	13.0	70	25	9.8	--	200	520	37	12
APR												
03...	1530	245	6.1	19.5	100	15	8.5	4.0	K200	--	29	3
MAY												
10...	1405	53	5.5	22.0	70	35	5.4	--	200	900	9	6
JUN												
14...	1800	316	6.6	28.5	50	40	5.4	2.1	100	K8	43	13
JUL												
24...	1455	722	6.5	30.5	280	40	5.1	.8	K400	6200	54	0
AUG												
07...	1545	956	7.0	31.5	30	35	8.1	7.2	--	2200	66	0
SEP												
06...	0900	865	7.1	26.0	500	35	5.7	.6	K120	520	60	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS C03)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT												
12...	27	5.7	300	87	14	6.3	138	0	113	120	390	.1
NOV												
01...	27	3.2	220	84	11	9.4	186	0	153	260	93	.1
DEC												
16...	11	2.0	35	65	2.6	3.9	26	0	21	42	32	.1
JAN												
27...	5.9	1.2	9.9	49	1.0	2.1	8	0	7	17	12	.0
FEB												
20...	6.1	1.7	23	67	2.1	2.0	23	0	19	24	25	.1
MAR												
14...	11	2.2	36	66	2.6	2.6	30	0	25	39	41	.1
APR												
03...	8.1	2.1	34	69	2.8	2.9	32	0	26	30	36	.1
MAY												
10...	3.6	.2	4.8	46	.7	2.1	5	0	4	9.9	7.6	.0
JUN												
14...	13	2.5	43	67	2.9	2.4	36	0	30	25	59	.1
JUL												
24...	16	3.5	130	82	7.7	4.8	121	0	99	86	110	.1
AUG												
07...	19	4.4	180	84	9.7	5.0	110	0	90	68	200	.1
SEP												
06...	20	2.5	160	83	9.0	7.6	200	0	160	150	86	.1

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

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

RED RIVER BASIN

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07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)	NITRO- GEN, NITRATE TOT IN BOT MAT (MG/KG AS N)
OCT 12...	14	929	932	1.26	--	--	--	--	--	--	--	--
NOV 01...	19	711	724	.97	--	--	--	--	--	--	--	--
DEC 16...	10	169	149	.23	--	--	--	--	--	--	--	--
JAN 27...	8.0	75	61	.10	--	.16	.71	--	--	.01	.03	--
FEB 20...	12	116	107	.16	.10	--	--	--	.02	.01	.03	--
MAR 14...	13	159	160	.22	--	--	--	--	--	--	--	--
APR 03...	13	154	144	.21	--	.21	.93	1.5	.01	.02	.07	.2
MAY 10...	3.3	51	34	.07	--	--	--	--	--	--	--	--
JUN 14...	15	190	178	.26	--	--	--	--	--	--	--	--
JUL 24...	17	434	430	.59	.27	.27	1.2	--	.04	.04	.13	--
AUG 07...	15	534	546	.73	--	--	--	--	--	--	--	--
SEP 06...	16	538	541	.73	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOT. IN BOT. MAT (MG/KG AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL IN BOT. MAT. (MG/KG AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 12...	.21	--	--	--	--	--	--	--	--	.63	--	--
NOV 01...	.23	--	--	--	--	--	--	--	--	.92	--	--
DEC 16...	.15	--	--	--	--	--	--	--	--	.78	--	--
JAN 27...	--	.17	--	.04	.04	--	.05	.50	.48	.52	.00	.52
FEB 20...	.12	.19	--	--	.14	--	.18	--	1.1	--	--	1.2
MAR 14...	.08	--	--	--	--	--	--	--	--	.62	--	--
APR 03...	--	.23	1.7	.06	.01	7.7	.01	1.0	.60	1.1	.49	.61
MAY 10...	.07	--	--	--	--	--	--	--	--	.96	--	--
JUN 14...	.25	--	--	--	--	--	--	--	--	.86	--	--
JUL 24...	.31	.31	--	.06	.02	--	.03	1.1	.83	1.2	.35	.85
AUG 07...	.01	--	--	--	--	--	--	--	--	1.3	--	--
SEP 06...	.47	--	--	--	--	--	--	--	--	1.3	--	--

RED RIVER BASIN

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO- GEN+NH ₄ + ORG. TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N03)	NITRO- GEN+TOT IN BOT- TOM MA- TERIAL (MG/KG AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04)
OCT 12...	--	.84	3.7	--	.22	--	--	--	--	--	--
NOV 01...	--	1.2	5.1	--	.29	--	--	--	--	--	--
DEC 16...	--	.93	4.1	--	.10	--	--	--	--	--	--
JAN 27...	--	--	--	--	.07	.21	.21	.03	.01	.01	.03
FEB 20...	--	--	--	--	.08	.25	.25	.03	.02	.01	.03
MAR 14...	--	.70	3.1	--	.18	--	--	--	--	--	--
APR 03...	383	--	--	556	.11	.34	.34	.07	.04	.03	.09
MAY 10...	--	1.0	4.6	--	.09	--	--	--	--	--	--
JUN 14...	--	1.1	4.9	--	.15	--	--	--	--	--	--
JUL 24...	--	1.5	6.6	--	.29	.89	.89	.09	.23	.08	.25
AUG 07...	--	1.3	5.8	--	.17	--	--	--	--	--	--
SEP 06...	--	1.8	7.8	--	.35	--	--	--	--	--	--

DATE	PHOS- PHORUS, HYDRO. + ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS, HYDRO. + ORTHO DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORGANIC TOTAL (MG/L AS P)	PHOS- PHORUS, ORGANIC DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, TOTAL IN BOT- MAT. (MG/KG AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
OCT 12...	--	--	--	--	--	13	.00	2	--
NOV 01...	--	--	--	--	--	18	.00	3	310
JAN 27...	.07	.03	.00	.00	--	15	--	--	--
FEB 20...	.04	.01	.02	.02	--	12	--	--	250
APR 03...	.10	.05	.02	.02	150	16	.00	6	11000
JUL 24...	.27	.08	.01	.01	--	15	--	--	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
OCT 12...	1	0	0	<1	13	0	8	1	130	1100	2	<10
NOV 01...	1	2	0	0	3	0	5	2	520	1400	1	6
JAN 27...	1	--	0	--	--	0	6	--	250	--	2	--
FEB 20...	0	--	4	--	--	0	5	--	230	--	6	--
APR 03...	2	2	1	0	2	0	4	4	1100	1600	3	0
JUL 24...	2	--	2	--	--	0	6	--	1100	--	6	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALURIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)
OCT 12...	460	74	.0	.0	40	5	.0	0	.00	.00	.0	.0
NOV 01...	260	78	.0	.0	10	6	.0	0	.00	.00	.0	.0
JAN 27...	160	--	.0	--	20	--	--	--	--	--	--	--
FEB 20...	90	--	.0	--	20	--	--	--	--	--	--	--
APR 03...	220	140	.0	.0	10	6	--	--	--	--	--	--
JUL 24...	660	--	.0	--	20	--	--	--	--	--	--	--

[illegible][illegible][illegible]

RED RIVER BASIN

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 12...	.00	.0	.12	.00	.00
NOV 01...	.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)
OCT. 19, 1977...	----	--	--	--	MAY 10.....	----	32.5	--	--
NOV. 18.....	----	15.0	15.5	--	MAY 26.....	----	31.5	26.0	--
DEC. 27.....	----	14.0	8.0	12.2	JUNE 29.....	----	30.0	30.5	5.4
JAN. 31, 1978...	----	2.5	4.0	11.6	AUG. 8.....	----	27.5	29.5	--
MAR. 21.....	----	24.5	17.5	9.0	SEP. 25.....	----	26.0	23.5	7.5

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	765	1040								---	630	1650
2	780	1150								---	680	1030
3	795	865								---	700	740
4	800	905								---	720	625
5	800	760								---	840	830
6	950	---								---	960	790
7	1080	---								---	950	725
8	1120	---								---	890	810
9	1070	---								---	890	1000
10	1070	---								---	900	1170
11	1230	---								---	910	1120
12	1800	---								---	850	1080
13	1450	---								---	1200	1040
14	1220	---								---	1320	980
15	1450	---								---	1050	1010
16	1260	---								---	1050	1070
17	1370	---								---	960	1100
18	1260	---								---	910	1140
19	1320	---								---	870	1060
20	1180	---								---	875	1020
21	990	---								---	845	1180
22	880	---								---	895	1900
23	840	---								---	910	1550
24	845	---								---	910	1280
25	810	---								---	950	1140
26	795	---								830	1010	1120
27	960	---								880	1050	1130
28	970	---								500	1080	1050
29	930	---								640	1130	1010
30	950	---								1350	1960	1050
31	990	---								610	1930	---
MEAN	1060	944								802	994	1080
WTR YR 1978	MEAN	1020		MAX	1960		MIN	500				

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

NOV. 1, 1977 1415 HOURS

PHYTOPLANKTON 310 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	14	4
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCAEAE		
....MELOSIRA	180	57
..PENNALES		
...NAVICULACEAE		
....CALONEIS	14	4
...NITZSCHIAEAE		
....NITZSCHIA	41	13
.XANTHOPHYCEAE		
..HETEROCOCCALES		
...CHLOROTHECIAEAE		
....OPHIOCYTIUM	27	9
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	14	4
....TRACHELOMONAS	14	4

FEB. 20, 1978 1545 HOURS

PHYTOPLANKTON 250 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....KIRCHNERIELLA	23	9
....OOCYSTIS	23	9
....TREUBARIA	8	3
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCAEAE		
....CYCLOTELLA	23	9
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	8	3
...NAVICULACEAE		
....GYROSIGMA	8	3
....NAVICULA	15	6
...NITZSCHIAEAE		
....NITZSCHIA	15	6
CYANOPHYTA		
.CYANOPHYCEAE		
..CHROCOCCALES		
...CHROCOCCAEAE		
....ANACYSTIS	120	48
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	8	3

APR. 3, 1978 1530 HOURS

PHYTOPLANKTON 11,000 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...MICRACTINIACEAE		
....MICRACTINIUM	250	2
...OOCYSTACEAE		
....ANKISTRODESMUS	1,000	9
....CHODATELLA	36	0
....CLOSTERIOPSIS	110	1
....DICTYOSPHAERIUM	780	7
....SELENASTRUM	320	3
...SCENEDESMACEAE		
....CRUCIGENIA	570	5
...SCENEDESMUS	1,500	14
..TETRASPORALES		
...COCCOMYXACEAE		
....ELAKATOTHRIX	71	1
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	71	1
..ZYGNEMATALES		
...DESMIDIACEAE		
....STAURASTRUM		0
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCAEAE		
....CYCLOTELLA	430	4
....MELOSIRA		
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA		0
...NAVICULACEAE		
....DIPLONEIS	36	0
....GYROSIGMA	36	0
....NAVICULA		0
...NITZSCHIAEAE		
....NITZSCHIA	430	4
CYANOPHYTA		
.CYANOPHYCEAE		
..CHROCOCCALES		
...CHROCOCCAEAE		
....ANACYSTIS	4,700	43
...HORMOGONALES		
....OSCILLATORIACEAE		
....OSCILLATORIA	290	3
EUGLENOPHYTA		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	71	1
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	110	1

RED RIVER BASIN

07373000 BIG CREEK AT POLLOCK, LA
(Hydrologic bench-mark station)

LOCATION.--Lat 31°32'10", long 92°24'30", in SW¼SE¼ sec.31, T.7 N., R.1 E., Grant Parish, 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 and water stage combination), concrete control since July 16, 1964.

Datum of gage is 76.69 ft (23.375 m) National Geodetic Vertical Datum of 1929. 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 records good. Supplementary recording rain gage 3.8 mi (6.1 km) northwest of gaging station since June 26, 1964.

AVERAGE DISCHARGE.--36 years, 59.4 ft³/s (1.682 m³/s), 15.82 in/yr (402 mm/yr), 43,040 acre-ft/yr (53.1 hm³/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)
Jan. 25	0030	*898 25.4	*8.51 2.594	May 18	0100	721 20.4	7.73 2.356
Feb. 13	0330	828 23.4	8.23 2.508				

Minimum discharge, 10 ft³/s (0.28 m³/s) July 21, 22, gage height, 2.85 ft (0.869 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	35	112	40	294	48	30	20	23	16	15	21
2	16	162	74	37	189	46	29	19	46	18	16	18
3	18	57	57	36	93	45	29	37	43	14	15	18
4	16	36	48	35	76	43	29	34	31	14	14	21
5	16	31	43	34	65	41	29	29	26	15	13	18
6	16	36	38	35	59	40	29	22	23	20	13	16
7	16	33	36	36	62	65	29	255	106	14	12	15
8	19	39	35	62	53	69	29	73	69	13	12	15
9	81	59	39	46	50	52	28	45	36	14	12	16
10	40	38	39	36	48	46	28	32	28	12	11	31
11	66	29	35	36	47	43	42	27	25	12	12	35
12	41	28	34	49	150	42	36	28	23	12	16	35
13	27	26	116	48	617	40	32	28	21	12	32	24
14	23	25	254	40	198	41	29	25	20	11	38	22
15	22	25	80	37	99	38	28	22	19	12	20	24
16	20	25	59	78	80	36	26	21	18	19	15	20
17	19	39	50	193	71	35	26	135	18	14	14	18
18	19	29	43	78	69	35	29	250	18	12	13	16
19	19	26	40	66	62	34	26	47	19	11	13	16
20	18	27	37	63	57	34	25	35	27	11	22	16
21	18	80	36	56	53	38	24	29	18	11	45	15
22	18	135	33	57	50	43	23	27	18	12	22	15
23	30	52	33	73	49	37	22	25	16	15	16	15
24	56	41	34	601	48	80	23	22	16	29	15	14
25	35	36	34	656	53	59	22	21	16	50	14	14
26	27	32	31	227	52	42	20	20	15	19	14	13
27	24	34	30	107	46	38	20	20	14	38	13	13
28	22	41	29	85	50	36	20	19	14	22	14	14
29	21	75	54	71	---	35	20	25	13	16	250	14
30	20	440	71	81	---	33	20	56	22	14	48	14
31	18	---	47	125	---	32	---	29	---	14	27	---
TOTAL	817	1771	1701	3224	2840	1346	802	1477	801	516	806	556
MEAN	26.4	59.0	54.9	104	101	43.4	26.7	47.6	26.7	16.6	26.0	18.5
MAX	81	440	254	656	617	80	42	255	106	50	250	35
MIN	16	25	29	34	46	32	20	19	13	11	11	13
CFSM	.52	1.16	1.08	2.04	1.98	.85	.52	.93	.52	.33	.51	.36
IN.	.60	1.29	1.24	2.35	2.07	.98	.58	1.08	.58	.38	.59	.41
AC-FT	1620	3510	3370	6390	5630	2670	1590	2930	1590	1020	1600	1100
(†)	5.23	5.38	2.71	6.62	2.92	1.66	0.29	6.66	2.81	3.61	6.44	2.27
(‡)	4.34	6.97	2.67	6.57	3.10	1.53	0.83	6.73	4.07	3.97	5.80	2.82

CAL YR 1977 TOTAL 25036 MEAN 65.3 MAX 4070 MIN 14 CFSM 1.28 IN 17.39 AC-FT 47280
WTR YR 1978 TOTAL 16657 MEAN 45.6 MAX 656 MIN 11 CFSM .89 IN 12.15 AC-FT 33040

† Precipitation, in inches, during month at rain gage at station. Total for calendar year 1977, 53.36 inches; total for water year 1978, 46.60 inches.

‡ Precipitation, in inches, during month at rain gage upstream. Total for calendar year 1977, 57.09 inches; total for water year 1978, 49.40 inches.

RED RIVER BASIN

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07373000 BIG CREEK AT POLLOCK, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.99	3.16	3.74	3.30	4.81	3.37	3.19	3.05	3.10	3.00	2.97	3.07
2	3.00	3.96	3.55	3.27	4.08	3.35	3.18	3.04	3.35	3.03	2.98	3.03
3	3.02	3.44	3.44	3.25	3.65	3.34	3.18	3.27	3.33	2.95	2.96	3.02
4	3.00	3.26	3.37	3.24	3.56	3.33	3.18	3.23	3.20	2.94	2.94	3.07
5	2.99	3.20	3.33	3.23	3.49	3.31	3.18	3.18	3.14	2.96	2.92	3.03
6	2.99	3.25	3.28	3.24	3.45	3.30	3.17	3.09	3.10	3.05	2.92	2.98
7	2.98	3.22	3.25	3.26	3.47	3.49	3.17	4.60	3.64	2.94	2.91	2.97
8	3.04	3.29	3.24	3.47	3.41	3.52	3.17	3.54	3.52	2.93	2.90	2.96
9	3.59	3.45	3.29	3.35	3.39	3.40	3.16	3.34	3.25	2.94	2.90	3.00
10	3.30	3.28	3.29	3.26	3.37	3.35	3.16	3.21	3.16	2.91	2.88	3.20
11	3.50	3.18	3.24	3.25	3.36	3.33	3.32	3.15	3.12	2.90	2.89	3.24
12	3.31	3.16	3.23	3.38	4.01	3.32	3.26	3.16	3.10	2.90	2.99	3.24
13	3.15	3.14	3.72	3.37	7.11	3.30	3.21	3.16	3.07	2.89	3.15	3.11
14	3.10	3.13	4.55	3.30	4.20	3.31	3.18	3.12	3.05	2.88	3.28	3.09
15	3.08	3.13	3.58	3.27	3.68	3.28	3.16	3.09	3.04	2.91	3.06	3.11
16	3.06	3.13	3.45	3.51	3.58	3.26	3.14	3.07	3.03	3.04	2.97	3.06
17	3.04	3.29	3.39	4.10	3.53	3.24	3.14	3.85	3.02	2.95	2.94	3.02
18	3.04	3.18	3.33	3.57	3.52	3.24	3.18	4.61	3.02	2.89	2.93	3.00
19	3.04	3.14	3.30	3.50	3.47	3.23	3.14	3.36	3.04	2.88	2.92	2.99
20	3.03	3.15	3.27	3.48	3.44	3.23	3.12	3.24	3.15	2.88	3.03	3.00
21	3.03	3.48	3.25	3.43	3.41	3.28	3.11	3.18	3.03	2.86	3.34	2.97
22	3.02	3.84	3.22	3.44	3.39	3.33	3.10	3.15	3.03	2.91	3.08	2.96
23	3.19	3.40	3.22	3.54	3.38	3.27	3.09	3.12	2.99	2.97	2.99	2.96
24	3.43	3.31	3.23	6.79	3.37	3.58	3.10	3.09	2.98	3.17	2.97	2.95
25	3.24	3.25	3.23	7.25	3.41	3.45	3.08	3.07	2.98	3.39	2.95	2.94
26	3.15	3.21	3.20	4.28	3.40	3.32	3.06	3.06	2.97	3.04	2.94	2.93
27	3.11	3.23	3.19	3.72	3.35	3.28	3.05	3.05	2.95	3.26	2.93	2.93
28	3.08	3.31	3.18	3.61	3.39	3.25	3.05	3.04	2.94	3.08	2.94	2.94
29	3.07	3.51	3.42	3.53	---	3.24	3.05	3.12	2.93	2.99	4.53	2.95
30	3.05	5.89	3.53	3.59	---	3.22	3.05	3.43	3.08	2.95	3.37	2.94
31	3.03	---	3.36	3.80	---	3.21	---	3.18	---	2.94	3.15	---
MEAN	3.12	3.39	3.38	3.70	3.70	3.32	3.14	3.29	3.11	2.98	3.05	3.02
MAX	3.59	5.89	4.55	7.25	7.11	3.58	3.32	4.61	3.64	3.39	4.53	3.24
MIN	2.98	3.13	3.18	3.23	3.35	3.21	3.05	3.04	2.93	2.86	2.88	2.93

RED RIVER BASIN

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 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM- FLOW, INSTAN- TANECUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	CULI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT												
13...	0900	29	34	6.7	13.0	55	20	--	--	--	260	520
31...	1440	18	46	7.1	19.5	30	6	8.4	.0	520	120	240
DEC												
14...	1715	171	33	5.2	13.5	6	25	9.3	3.6	3700	3200	6000
JAN												
27...	1400	99	35	5.2	5.5	50	15	11.2	5.7	K2000	K600	810
FEB												
20...	1630	57	38	6.1	8.0	30	5	11.0	.7	K570	180	K20
MAR												
14...	2100	40	38	6.0	10.0	20	8	9.7	--	--	80	660
APR												
03...	1715	29	39	6.1	20.5	20	5	8.5	1.3	K60	K170	--
MAY												
10...	1530	31	42	6.2	21.5	40	8	7.7	--	9600	220	1000
JUN												
14...	1850	20	42	6.4	--	40	10	8.2	1.1	--	200	K55
JUL												
24...	1605	24	37	7.5	26.0	25	10	7.6	.0	20000	K200	1400
AUG												
07...	1705	14	47	6.2	26.0	30	8	7.8	1.1	15000	200	1100
SEP												
06...	0830	16	41	6.3	26.0	40	5	8.2	1.9	2600	350	700

DATE	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS C03)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS C02)
OCT												
13...	8	0	1.9	.7	6.7	60	1.1	1.7	12	0	10	3.8
31...	8	0	1.9	.8	4.2	48	.6	1.4	18	0	15	2.3
DEC												
14...	8	4	1.9	.7	2.4	35	.4	1.6	4	0	3	40
JAN												
27...	6	3	2.2	.1	3.1	48	.6	1.1	4	0	3	40
FEB												
20...	15	4	4.5	.9	3.6	33	.4	.9	14	0	11	18
MAR												
14...	9	0	2.1	.8	4.0	47	.6	1.0	14	0	11	22
APR												
03...	9	0	2.0	.9	4.2	47	.6	1.3	14	0	11	18
MAY												
10...	10	0	1.8	1.3	4.0	43	.6	1.5	12	0	10	12
JUN												
14...	8	0	1.7	.9	4.6	46	.6	1.3	14	0	11	8.9
JUL												
24...	16	5	5.4	.6	2.0	20	.2	1.4	14	0	11	.7
AUG												
07...	11	0	2.7	1.1	6.8	53	.9	1.6	16	0	13	16
SEP												
06...	7	0	2.0	.3	6.6	62	1.1	1.4	14	0	11	11

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

RED RIVER BASIN

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07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SULFATE UN- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C UN- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 13...	5.9	7.2	.1	16	45	46	.06	.06	.03	46	3.6	75
31...	2.3	4.1	.0	22	46	46	.06	5.0	.03	3	.16	7
DEC 14...	6.2	3.9	.0	9.9	47	29	.06	.12	.04	38	18	90
JAN 27...	4.5	4.0	.0	14	38	31	.05	.07	.02	50	13	38
FEB 20...	2.7	5.2	.0	21	--	46	.04	.05	.01	68	10	71
MAR 14...	1.5	4.0	.0	16	36	36	.05	.02	.12	38	4.1	62
APR 03...	1.8	4.1	.0	17	38	38	.05	.02	.03	12	.94	50
MAY 10...	4.2	4.1	.0	16	43	39	.06	--	.04	40	3.3	90
JUN 14...	2.4	3.9	.0	21	45	43	.06	.14	.04	34	1.8	80
JUL 24...	3.0	4.1	.0	19	40	42	.05	.10	.03	--	--	--
AUG 07...	2.7	7.6	.1	22	57	52	.08	.06	.03	29	1.1	97
SEP 06...	2.4	4.2	.0	21	47	45	.06	.05	.03	22	.95	100

DATE	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	CADMIUM, TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 13...	--	100	<10	0	<10	750	<100	40	<10	.0	--	4
31...	1	400	0	0	3	620	1	60	7	.0	0	2
MAY 10...	1	300	0	0	7	1200	6	110	0	.0	0	40

DATE	CYANIDE TOTAL (MG/L AS CN)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)
OCT 13...	.00	.0	7	.00	--	.00	.0	.0	0	.00	1.4	.00
31...	.00	.0	0	.00	.0	.00	.0	.0	0	.00	.0	.00
MAY 10...	.00	--	--	--	--	--	--	--	--	--	--	--

DATE	ODE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)
OCT 13...	.6	.00	.9	.00	.0	.00	.1	.00	.0	.00	.0	.00
31...	.1	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
MAY 10...	--	--	--	--	--	--	--	--	--	--	--	--

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

RED RIVER BASIN

07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)
OCT 13...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
31...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
MAY 10...	--	--	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 13...	.00	2.4	.00	.0	0	0	.00	.0	.00	.0	.00	.00	.00
31...	--	.0	.00	.0	0	0	.00	.0	.00	.0	--	--	.00
MAY 10...	--	--	--	--	--	--	--	--	--	--	--	--	--

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. 1, 1977...	----	--	--	--	MAY 10.....	----	25.0	20.5	--
DEC. 21.....	----	9.5	10.0	--	JUNE 29.....	----	28.5	26.0	--
JAN. 31, 1978...	----	2.5	5.0	--	AUG. 8.....	----	27.0	25.0	--
MAR. 20.....	----	22.5	15.5	9.7	SEP. 22.....	----	--	--	--

RED RIVER BASIN

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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 1967 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1976, at datum 50.00 ft (15.240 m) higher.

REMARKS.--Lake is formed from an oxbow lake by four control structures; two are on Buckner Bayou. Buckner Bayou floodgate consists of two 4-ft (1.22-m) pipes (invert elevations, 47.9 ft or 14.60 m) with stoplogs which raise elevation to 53.0 ft (16.15 m). Structure built about 1948. Adjacent to the floodgate is Buckner Bayou weir, which was built about 1975. The weir has a 30-ft (9.1-m) length with crest elevation of 53.0 ft (16.15 m).

Lake St. John Control Structure is on lateral canal Z-A near southern end of Lake St. John on western side of lake. This structure consists of two 8.5-by 3.5-ft (2.59- by 1.07-m) timber gates with invert of gates at elevation 53.0 ft (16.15 m) and was built about 1967.

Little Tensas Bayou Control Structure is located at northeast end of Lake St. John and consists of a 5.0-ft (1.52-m) pipe with flap valve. Invert of pipe is 50.3 ft (15.33 m) elevation.

Lake is used for conservation and flood control.

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, 54.10 ft (16.489 m) Feb. 2; minimum, 52.17 ft (15.901 m) Nov. 1.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.56	52.18	52.99	53.28	53.99	53.65	53.38	53.06	53.40	53.19	52.95	52.62
2	52.55	52.31	53.04	53.27	54.09	53.61	53.37	53.05	53.52	53.16	52.93	52.61
3	52.55	52.31	53.06	53.25	54.08	53.60	53.36	53.06	53.52	53.14	52.91	52.59
4	52.50	52.32	53.08	53.25	54.05	53.58	53.35	53.08	53.50	53.12	52.90	52.59
5	52.48	52.34	53.09	53.24	54.01	53.54	53.35	53.06	53.47	53.20	52.87	52.58
6	52.46	52.33	53.08	53.24	53.98	53.52	53.33	53.05	53.43	53.18	52.85	52.56
7	52.44	52.33	53.04	53.24	53.95	53.54	53.32	53.20	53.42	53.16	52.82	52.54
8	52.41	52.31	53.02	53.27	53.90	53.57	53.32	53.54	53.69	53.14	52.80	52.53
9	52.44	52.36	53.10	53.26	53.86	53.56	53.31	53.68	53.73	53.12	52.79	52.51
10	52.41	52.32	53.05	53.24	53.83	53.54	53.29	53.70	53.69	53.10	52.77	52.49
11	52.44	52.29	53.02	53.22	53.80	53.53	53.35	53.69	53.66	53.08	52.76	52.48
12	52.41	52.28	53.01	53.23	53.77	53.52	53.32	53.84	53.63	53.06	52.74	52.46
13	52.37	52.27	53.00	53.22	53.90	53.50	53.31	53.85	53.61	53.03	52.72	52.47
14	52.35	52.25	53.24	53.21	53.90	53.57	53.30	53.82	53.57	53.01	52.71	52.47
15	52.34	52.23	53.28	53.19	53.87	53.56	53.29	53.78	53.53	53.03	52.70	52.46
16	52.33	52.22	53.30	53.18	53.85	53.54	53.27	53.75	53.50	53.11	52.68	52.45
17	52.31	52.25	53.32	53.26	53.82	53.51	53.26	53.72	53.47	53.08	52.67	52.44
18	52.29	52.22	53.31	53.24	53.80	53.49	53.26	53.72	53.45	53.06	52.65	52.42
19	52.28	52.20	53.30	53.29	53.77	53.47	53.25	53.70	53.42	53.04	52.63	52.41
20	52.27	52.25	53.30	53.29	53.74	53.47	53.22	53.68	53.42	53.03	52.62	52.40
21	52.26	52.26	53.27	53.28	53.70	53.45	53.21	53.65	53.40	53.01	52.60	52.38
22	52.25	52.35	53.25	53.28	53.68	53.46	53.18	53.62	53.37	52.99	52.59	52.38
23	52.24	52.35	53.24	53.28	53.66	53.44	53.17	53.59	53.36	52.96	52.56	52.34
24	52.24	52.34	53.23	53.43	53.64	53.49	53.15	53.56	53.34	53.10	52.54	52.31
25	52.25	52.34	53.27	53.76	53.62	53.49	53.16	53.53	53.32	53.08	52.53	52.28
26	52.24	52.33	53.24	53.89	53.67	53.47	53.14	53.50	53.29	53.06	52.51	52.25
27	52.23	52.29	53.23	53.93	53.64	53.45	53.11	53.48	53.27	53.05	52.48	52.23
28	52.21	52.38	53.21	53.93	53.65	53.43	53.10	53.45	53.26	53.03	52.45	52.23
29	52.21	52.46	53.21	53.91	---	53.42	53.08	53.42	53.23	53.01	52.68	52.22
30	52.20	52.86	53.29	53.90	---	53.41	53.06	53.40	53.21	52.99	52.66	52.21
31	52.19	---	53.28	53.90	---	53.40	---	53.38	---	52.96	52.64	---
MEAN	52.35	52.32	53.17	53.40	53.83	53.51	53.25	53.50	53.46	53.07	52.70	52.43
MAX	52.56	52.86	53.32	53.93	54.09	53.65	53.38	53.85	53.73	53.20	52.95	52.62
MIN	52.19	52.18	52.99	53.18	53.62	53.40	53.06	53.05	53.21	52.96	52.45	52.21

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, 1977-78.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CACO3)
NOV 03...	1130	5.0	140	7.8	20.0	10	5	7.2	1.5	K10	K30	50
FEB 23...	1135	.5	131	7.0	7.0	10	6	11.9	2.9	670	K230	44
APR 06...	1050	.5	134	8.1	20.0	10	4	10.6	3.0	<5	670	46
JUL 27...	1050	.5	147	8.1	31.0	5	5	8.3	2.8	K950	K850	48

DATE	HARD- NESS, NONCAR- BONATE, DIS- (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 03...	0	14	3.7	7.3	22	.4	4.6	61	0	50	1.8
FEB 23...	0	12	3.5	6.4	22	.4	3.9	71	0	58	2.4
APR 06...	0	13	3.3	6.5	21	.4	4.5	56	0	46	7.4
JUL 27...	0	13	3.7	6.9	22	.4	4.5	60	0	49	2.1

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)
NOV 03...	12	.1	4.6	80	78	.11	.01	.68	.69	3.1	.23
FEB 23...	10	.1	.1	--	73	.09	.00	.60	.60	2.7	.06
APR 06...	13	.0	.1	--	75	.08	.00	.81	.81	3.6	.05
JUL 27...	14	.1	3.8	83	78	.11	.00	1.3	1.3	5.8	.11

	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CU)	CHRO- MIUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECov. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECov. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 03...	1	25	0	1	6	0	2	24	0	16000	0	30
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--

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

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

RED RIVER BASIN

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07373278 LAKE ST. JOHN NEAR WATERPROOF, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)
NOV 03...	0	920	.0	.0	86	20	2	.0	0	.00	.0	.00
JUL 27...	--	--	--	--	--	--	--	--	0	--	--	--

DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)
NOV 03...	.0	.0	0	.00	18	.00	40	.00	.0	.00	.0	.00
JUL 27...	.0	--	33	--	27	--	46	--	3.7	--	.0	--

DATE	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MAIL. (UG/G)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
JUL 27...	.0	--	.0	--	.0	--	.0	--	.0	--	--

DATE	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0
JUL 27...	--	.0	--	--	.0	--	.0	--	--	--	.0

RED RIVER BASIN

07373278 LAKE ST. JOHN NEAR WATERPROOF, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 03...	.00	0	0	.00	.0	.00	.00	.00
JUL 27...	--	--	0	--	.0	--	--	--

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV						
03...	1130	5.0	140	7.8	20.0	7.2
03...	1131	.5	--	7.5	20.0	7.2
03...	1132	19	--	7.3	20.0	6.5
FEB						
23...	1135	.5	131	7.0	7.0	11.9
23...	1137	20	135	8.2	7.0	11.6
APR						
06...	1050	.5	134	8.1	20.0	10.6
06...	1051	16	155	8.7	21.0	10.3
06...	1052	19	150	7.5	19.0	8.4
JUL						
27...	1050	.5	147	8.1	31.0	8.3
27...	1052	5.0	172	7.5	29.5	4.5
27...	1053	10	175	7.2	29.5	3.3
27...	1054	15	173	7.2	29.0	3.1
27...	1055	19	175	7.1	28.5	2.5

RED RIVER BASIN

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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 National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1976, at datum 29.00 ft (8.839 m) higher.

REMARKS.--Lake is formed from an oxbow lake by two adjacent structures on Bayou Cocodrie. One structure, built about 1948, is a 4-ft (1.22-m) pipe with invert at 46.0 ft (14.02 m). The second structure is a 5.0-ft (1.52-m) pipe with a single gate. The invert of this pipe is 42.0 ft (12.80 m). This structure was built about 1975 to permit the lowering of the lake when needed. The lake is used for conservation and flood control.

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 CURRENT YEAR.--Maximum elevation, 50.72 ft (15.459 m) Feb. 1; minimum, 49.21 ft (14.999 m) Nov. 1.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.50	49.21	50.01	49.97	50.67	50.32	50.01	49.74	50.19	49.86	49.59	49.61
2	49.48	49.40	50.03	49.95	50.71	50.32	49.99	49.71	50.31	49.85	49.59	49.59
3	49.46	49.38	50.04	49.93	50.71	50.29	49.98	49.76	50.29	49.83	49.58	49.59
4	49.43	49.38	50.03	49.92	50.70	50.25	49.96	49.77	50.27	49.81	49.56	49.61
5	49.41	49.42	50.03	49.91	50.68	50.24	49.96	49.76	50.25	49.87	49.54	49.59
6	49.39	49.41	49.98	49.91	50.65	50.22	49.94	49.75	50.22	49.85	49.51	49.58
7	49.38	49.40	49.96	49.90	50.61	50.21	49.93	49.98	50.20	49.83	49.50	49.57
8	49.38	49.41	49.94	49.93	50.58	50.26	49.92	50.26	50.31	49.80	49.50	49.56
9	49.39	49.49	49.94	49.89	50.56	50.24	49.91	50.36	50.34	49.78	49.49	49.54
10	49.36	49.46	49.92	49.88	50.53	50.22	49.90	50.38	50.32	49.76	49.48	49.53
11	49.40	49.44	49.89	49.86	50.51	50.20	49.93	50.37	50.30	49.74	49.51	49.53
12	49.38	49.42	49.88	49.86	50.49	50.18	49.92	50.52	50.29	49.72	49.51	49.52
13	49.36	49.41	49.87	49.85	50.68	50.17	49.91	50.52	50.25	49.71	49.50	49.55
14	49.35	49.40	50.12	49.83	50.66	50.22	49.90	50.48	50.21	49.69	49.50	49.56
15	49.33	49.39	50.13	49.82	50.63	50.20	49.88	50.46	50.19	49.69	49.56	49.56
16	49.31	49.39	50.13	49.83	50.62	50.17	49.88	50.43	50.17	49.74	49.55	49.55
17	49.30	49.38	50.13	49.88	50.60	50.16	49.88	50.40	50.15	49.72	49.54	49.54
18	49.29	49.37	50.11	49.89	50.58	50.14	49.88	50.53	50.12	49.70	49.53	49.52
19	49.28	49.37	50.10	49.89	50.55	50.12	49.86	50.52	50.10	49.69	49.51	49.53
20	49.28	49.42	50.07	49.91	50.54	50.10	49.82	50.50	50.08	49.68	49.50	49.52
21	49.26	49.42	50.05	49.90	50.50	50.09	49.79	50.48	50.06	49.66	49.48	49.50
22	49.25	49.45	50.02	49.89	50.47	50.08	49.79	50.47	50.03	49.65	49.47	49.47
23	49.25	49.45	50.00	49.88	50.45	50.07	49.77	50.44	50.01	49.63	49.46	49.46
24	49.25	49.45	49.99	50.09	50.42	50.13	49.77	50.41	49.99	49.69	49.45	49.44
25	49.26	49.45	49.97	50.42	50.40	50.11	49.80	50.38	49.97	49.67	49.43	49.41
26	49.26	49.41	49.96	50.56	50.37	50.09	49.78	50.34	49.95	49.66	49.42	49.39
27	49.25	49.43	49.94	50.57	50.36	50.07	49.76	50.31	49.92	49.65	49.40	49.38
28	49.24	49.41	49.92	50.57	50.36	50.06	49.74	50.30	49.93	49.64	49.38	49.38
29	49.23	49.49	49.93	50.56	---	50.04	49.74	50.28	49.91	49.63	49.68	49.38
30	49.23	49.93	50.00	50.54	---	50.03	49.73	50.25	49.89	49.62	49.65	49.37
31	49.22	---	49.98	50.54	---	50.02	---	50.22	---	49.61	49.62	---
MEAN	49.33	49.43	50.00	50.04	50.56	50.16	49.87	50.26	50.14	49.72	49.52	49.51
MAX	49.50	49.93	50.13	50.57	50.71	50.32	50.01	50.53	50.34	49.87	49.68	49.61
MIN	49.22	49.21	49.87	49.82	50.36	50.02	49.73	49.71	49.89	49.61	49.38	49.37

RED RIVER BASIN

07373280 LAKE CONCORDIA NEAR FERRIDAY, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961, 1967, 1978.

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)
NOV 03...	0840	.5	224	8.4	20.5	15	6	7.6	3.7	K20	K25	100
FEB 23...	0905	.5	235	7.7	7.0	10	7	12.8	4.7	<5	K30	110
APR 06...	0825	.5	268	8.0	21.0	5	5	9.1	3.3	K28	K28	120
JUL 27...	0745	5.0	254	7.8	30.5	0	9	5.4	4.4	1200	530	100

DATE	HARD- NESS, NONCAR- BONATE, DIS- (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 03...	0	22	11	9.4	16	.4	4.1	130	2	110	1.6	7.5
FEB 23...	0	27	10	8.1	13	.3	3.6	138	0	113	2.7	7.2
APR 06...	0	30	11	8.5	13	.3	4.3	157	0	129	2.9	7.2
JUL 27...	0	22	12	9.6	16	.4	4.2	148	0	121	4.1	7.4

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 03...	.4	9.6	129	132	.18	.01	1.1	1.1	4.9	.24	9.2
FEB 23...	.1	.1	123	127	.17	.00	.68	.68	3.0	.08	--
APR 06...	.1	.5	137	142	.19	.00	.70	.70	3.1	.06	--
JUL 27...	.1	7.5	137	140	.19	.00	2.4	2.4	11	.11	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 03...	6	22	0	<1	8	0	1	19	0	18000	1
JUL 27...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	20	0	1100	.0	.0	10	60	.00	2	.0	--
JUL 27...	--	--	--	--	--	--	--	--	--	--	0

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

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

07373280 LAKE CONCORDIA NEAR FERRIDAY, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.00	--	.0	--	.00	--	.00	--	.00	--
JUL 27...	--	--	.0	--	6	--	1.1	--	8.2	--	.0

DATE	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)
NOV 03...	.00	--	.00	--	.00	--	.00	--	.00	--	.00
JUL 27...	--	.0	--	.0	--	.0	--	.0	--	.0	--

DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.	.00	.00	--	.00	--	.00	--	.00	.00	--
JUL 27...	.0	--	--	.0	--	.0	--	.0	--	--	.0

DATE	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 03...	0	--	.00	--	.00	.00	.00
JUL 27...	--	0	--	.0	--	--	--

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV 03...	0840	.5	224	8.4	20.5	7.6
03...	0905	10	--	8.2	20.5	6.0
03...	0906	15	--	8.1	20.0	6.0
FEB 23...	0905	.5	235	7.7	7.0	12.8
23...	0907	10	245	9.0	7.0	13.0
APR 06...	0825	.5	268	8.0	21.0	9.1
06...	0827	13	275	8.4	21.0	8.5
JUL 27...	0745	5.0	254	7.8	30.5	5.4
27...	0747	12	260	7.4	29.5	4.8

MISSISSIPPI RIVER DELTA

07381800 SPRING CREEK NEAR GLENMORA, LA

LOCATION.--Lat 31°00'10", long 92°34'10", in SE¼NE¼ sec.4, T.1 S., R.2 W., Rapides Parish, Louisiana meridian, 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) National Geodetic Vertical Datum of 1929. Oct. 23, 1953, to Mar. 6, 1956, crest-stage gage at same site and datum.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--22 years, 90.7 ft³/s (2.569 m³/s), 18.03 in/yr (458 mm/yr), 65,710 acre-ft/yr (81.0 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 (31.1 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)
Nov. 2	2200	1110 31.4	13.22 4.029	Jan. 24	unknown	*1200 34.0	a13.40 4.084

a Annual maximum from floodmark.

Minimum discharge, 35 ft³/s (0.99 m³/s) Aug. 26, 27, 28, gage height, 4.82 ft (1.469 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	50	711	65	405	80	60	49	44	42	49	44
2	43	736	207	62	483	75	59	49	46	42	44	41
3	43	596	111	60	202	73	59	62	66	42	41	44
4	42	119	90	59	128	70	58	57	60	42	39	130
5	41	81	80	59	105	68	58	51	48	42	39	53
6	41	71	73	59	94	68	58	50	48	42	38	43
7	41	65	68	58	88	83	57	58	162	42	38	41
8	42	84	66	72	83	83	57	61	114	44	38	40
9	54	335	65	142	80	75	57	55	88	47	37	40
10	45	158	63	85	77	72	57	52	61	42	37	41
11	52	85	62	68	75	69	60	51	60	41	37	44
12	47	69	61	68	109	68	58	51	56	41	39	43
13	46	63	256	67	243	67	58	51	52	41	39	41
14	43	60	794	70	182	68	56	50	50	40	41	42
15	42	59	368	64	106	65	55	50	49	40	39	42
16	42	57	131	83	88	64	54	50	48	42	38	41
17	41	57	99	216	82	63	54	50	47	40	37	40
18	41	55	84	140	83	63	54	53	46	40	37	42
19	41	54	76	110	77	62	53	51	46	40	37	47
20	41	55	72	92	76	62	52	48	45	40	37	42
21	41	60	68	84	73	85	52	47	45	40	36	39
22	41	81	62	76	71	76	51	47	45	42	37	39
23	74	94	64	80	70	69	51	46	44	42	37	38
24	347	67	64	900	69	94	51	46	44	45	36	38
25	188	61	62	800	69	91	51	46	43	51	36	38
26	102	58	61	450	354	79	50	46	43	42	36	37
27	63	58	60	200	134	69	50	45	43	59	36	37
28	55	69	59	110	91	65	50	45	42	44	40	37
29	51	179	62	95	---	63	50	45	42	40	292	37
30	49	732	80	90	---	61	51	45	43	40	97	37
31	47	---	70	100	---	61	---	45	---	109	52	---
TOTAL	1928	4368	4249	4684	3797	2211	1641	1552	1870	1386	1516	1318
MEAN	62.2	146	137	151	136	71.3	54.7	50.1	62.3	44.7	48.9	43.9
MAX	347	736	794	900	483	94	60	62	114	109	292	130
MIN	41	50	59	58	69	61	50	45	42	40	36	37
CFSM	.91	2.14	2.01	2.21	1.99	1.04	.80	.73	.91	.65	.72	.64
IN.	1.05	2.38	2.31	2.55	2.07	1.20	.89	.85	1.02	.75	.83	.72
AC-FT	3820	8660	8430	9290	7530	4390	3250	3080	3710	2750	3010	2610
CAL YR 1977	TOTAL	34048	MEAN 93.3	MAX 836	MIN 38	CFSM 1.37	IN 18.54	AC-FT	67530			
WTR YR 1978	TOTAL	30520	MEAN 83.6	MAX 900	MIN 36	CFSM 1.22	IN 16.62	AC-FT	60540			

MISSISSIPPI RIVER DELTA

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07381800 SPRING CREEK NEAR GLENMORA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.98	5.15	11.95	---	10.35	5.80	5.37	5.14	5.03	4.98	5.13	5.02
2	5.00	11.62	7.67	---	10.83	5.70	5.36	5.13	5.07	4.98	5.03	4.95
3	5.00	10.72	6.30	5.37	7.62	5.66	5.35	5.42	5.47	4.96	4.95	5.02
4	4.97	6.41	5.98	5.36	6.55	5.60	5.34	5.31	5.38	4.97	4.92	6.56
5	4.96	5.81	5.79	5.35	6.22	5.56	5.33	5.18	5.11	4.97	4.90	5.22
6	4.96	5.62	5.65	5.35	6.04	5.55	5.33	5.15	5.11	4.97	4.89	5.00
7	4.96	5.49	5.56	5.34	5.93	5.62	5.31	5.34	6.93	4.97	4.88	4.95
8	4.97	5.78	5.52	5.65	5.85	5.84	5.31	5.40	9.15	5.01	4.87	4.93
9	5.25	9.41	5.44	6.76	5.78	5.71	5.30	5.25	5.91	5.08	4.87	4.93
10	5.04	6.97	5.44	5.88	5.73	5.64	5.31	5.20	5.40	4.98	4.87	4.95
11	5.19	5.88	5.42	5.56	5.69	5.58	5.38	5.18	5.37	4.96	4.87	5.01
12	5.09	5.57	5.40	5.56	6.20	5.55	5.34	5.18	5.30	4.95	4.90	5.00
13	5.06	5.45	7.68	5.54	8.18	5.53	5.32	5.18	5.20	4.95	4.91	4.95
14	5.00	5.37	12.28	5.59	7.32	5.54	5.29	5.16	5.15	4.94	4.95	4.98
15	4.98	5.34	9.47	5.47	6.22	5.50	5.27	5.15	5.12	4.94	4.91	4.98
16	4.97	5.32	6.60	5.78	5.93	5.46	5.25	5.15	5.10	4.97	4.88	4.95
17	4.96	5.30	6.11	7.81	5.83	5.44	5.24	5.14	5.09	4.94	4.87	4.92
18	4.96	5.27	5.86	---	5.84	5.44	5.24	5.22	5.08	4.93	4.86	4.97
19	4.96	5.24	5.73	---	5.74	5.43	5.21	5.19	5.07	4.92	4.86	5.09
20	4.95	5.26	5.63	---	5.72	5.42	5.20	5.10	5.05	4.92	4.85	4.97
21	4.95	5.38	5.55	---	5.66	5.85	5.19	5.09	5.04	4.93	4.85	4.92
22	4.95	5.77	5.42	---	5.62	5.71	5.19	5.08	5.04	4.98	4.85	4.90
23	5.51	6.02	5.47	---	5.60	5.58	5.19	5.07	5.03	4.97	4.86	4.89
24	9.62	5.54	5.46	---	5.57	6.01	5.18	5.07	5.02	5.04	4.85	4.89
25	7.41	5.40	5.43	---	5.57	5.98	5.17	5.06	5.01	5.18	4.84	4.88
26	6.14	5.34	5.41	---	9.57	5.78	5.16	5.06	5.00	4.98	4.84	4.87
27	5.45	5.34	---	---	6.63	5.58	5.15	5.05	4.99	5.33	4.83	4.87
28	5.26	5.56	---	---	5.98	5.49	5.15	5.05	4.99	5.03	4.93	4.87
29	5.17	6.95	---	---	---	5.44	5.16	5.04	4.98	4.94	8.88	4.87
30	5.13	12.06	---	---	---	5.41	5.17	5.05	4.99	4.92	6.03	4.86
31	5.10	---	---	---	---	5.39	---	5.04	---	6.23	5.20	---
MEAN	5.32	6.35	---	---	6.56	5.61	5.26	5.16	5.34	5.03	5.07	5.01
MAX	9.62	12.06	12.28	---	10.83	6.01	5.38	5.42	9.15	6.23	8.88	6.56
MIN	4.95	5.15	---	5.34	5.57	5.39	5.15	5.04	4.98	4.92	4.83	4.86

MISSISSIPPI RIVER DELTA

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) National Geodetic Vertical Datum of 1929 (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 spillway is 11.44 ft (3.487 m) gage height. Drawdown structure consists of one 4.0-ft (1.2-m) pipe with a metal gate that can be varied from 1.44 to 5.44 ft (0.439 to 1.658 m) gage height. Invert of pipe is 1.44 ft (0.439 m) gage height. Usable capacity, 11,000 acre-ft (13.6 km³). 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, 17.56 ft (5.352 m) Dec. 2; minimum not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.94	12.27	17.18	13.53		---	12.35	11.90	10.90	10.92	10.53	---
2	11.94	12.45	17.55	13.32		---	12.31	11.89	10.89	10.86	10.54	---
3	11.94	12.50	17.47	13.13		---	12.27	11.99	10.85	10.79	10.51	---
4	11.94	12.71	17.29	12.97		---	12.24	12.03	11.03	10.71	10.44	---
5	11.93	12.72	17.07	12.84		---	12.21	12.03	11.11	10.63	10.37	---
6	11.93	12.66	16.85	12.74		---	12.18	12.02	11.16	10.55	10.29	12.59
7	11.92	12.58	16.61	12.65		---	12.16	12.04	11.24	10.48	10.21	12.52
8	11.92	12.51	16.38	12.63		---	12.14	12.05	11.53	10.41	10.11	12.44
9	11.98	12.46	16.15	12.58		---	12.12	12.06	11.86	10.35	10.02	12.37
10	11.98	12.51	15.90	12.54		---	12.10	11.91	12.03	10.29	9.92	12.32
11	12.06	12.55	15.66	12.50		---	12.13	11.86	11.99	10.21	9.81	12.30
12	12.07	12.51	15.43	12.49		---	12.11	11.81	12.01	10.12	9.70	12.36
13	12.06	12.46	15.20	12.45		---	12.12	11.77	11.97	10.03	9.60	12.34
14	12.06	12.41	16.15	12.41		---	12.10	11.72	11.91	9.93	9.60	12.33
15	12.06	12.37	16.74	12.38		---	12.09	11.67	11.84	9.85	9.50	12.30
16	12.05	12.32	16.85	---		---	12.07	11.62	11.78	9.73	9.39	12.27
17	12.03	12.29	16.70	---		---	12.06	11.57	11.72	9.59	9.26	12.24
18	12.03	12.24	16.50	---		---	12.06	11.54	11.67	9.45	9.11	12.21
19	12.03	12.22	16.29	---		---	12.03	11.50	11.62	9.30	9.04	12.23
20	12.03	12.19	16.07	---		---	12.01	11.45	11.58	9.14	8.90	12.20
21	12.03	12.39	15.85	---		---	11.99	11.45	11.52	8.96	8.74	12.17
22	12.03	12.75	15.62	---		---	11.97	11.40	11.47	8.77	8.56	12.14
23	12.03	12.86	15.39	---		12.47	11.96	11.35	11.42	8.60	8.38	12.11
24	12.17	12.83	15.17	---		12.57	11.96	11.31	11.36	8.62	8.20	12.09
25	12.34	12.76	14.95	---		12.61	11.95	11.25	11.31	8.80	8.00	12.06
26	12.49	12.67	14.72	---		12.64	11.93	11.21	11.24	8.76	---	12.03
27	12.49	12.59	14.50	---		12.62	11.92	11.15	11.18	8.86	---	12.01
28	12.46	12.60	14.26	---		12.56	11.91	11.10	11.12	10.40	---	12.00
29	12.41	12.84	14.06	---		12.51	11.90	11.06	11.04	10.52	---	11.99
30	12.36	15.17	13.93	---		12.45	11.90	11.01	10.99	10.50	---	11.98
31	12.31	---	13.73	---		12.40	---	10.96	---	10.43	---	---
MEAN	12.10	12.61	15.88	---		---	12.08	11.60	11.44	9.90	---	11.58
MAX	12.49	15.17	17.55	---		---	12.35	12.06	12.03	10.92	10.54	12.59
MIN	11.92	12.19	13.73	---		---	11.90	10.96	10.85	8.76	---	8.37

NOTE.--Gage height was below 7.97 ft (lowest recordable stage) Aug. 26-28.

MISSISSIPPI RIVER DELTA

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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) National Geodetic Vertical Datum of 1929 (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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Slight regulation at low flow by Cocodrie Lake (sta 07381950). Records of dissolved oxygen and water temperatures for water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--43 years (1922-24, 1937-78), 413 ft³/s (11.70 m³/s), 23.37 in/yr (594 mm/yr), 299,200 acre-ft/yr (269 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, 1,310 ft³/s (37.1 m³/s) Dec. 2, gage height, 17.52 ft (5.340 m); minimum discharge, 66 ft³/s (1.87 m³/s) Oct. 23, gage height, 5.11 ft (1.558 m) regulated.

DISCHARGE* IN CUBIC FEET PER SECOND* WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	248	1240	757	1090	677	261	88	140	130	130	313
2	78	397	1310	729	1160	620	241	84	139	130	130	279
3	77	366	1290	695	1180	557	223	108	141	129	130	257
4	75	443	1260	638	1170	496	209	127	141	128	129	331
5	72	463	1220	570	1140	444	197	129	138	128	128	398
6	70	431	1190	509	1100	400	186	127	139	127	127	388
7	69	391	1150	452	1070	375	176	130	162	126	126	349
8	68	353	1120	436	1040	355	167	134	162	125	125	310
9	75	336	1080	403	1020	333	159	154	207	124	124	276
10	77	340	1050	381	990	312	153	215	244	123	122	252
11	93	349	1020	360	963	291	160	212	253	122	121	237
12	99	334	990	352	939	272	161	203	249	121	120	238
13	97	308	1000	334	943	256	160	194	232	120	120	236
14	94	283	1110	314	949	247	156	184	214	119	119	229
15	90	262	1180	295	939	233	151	176	199	118	118	217
16	88	243	1190	296	918	216	147	168	186	117	116	206
17	85	225	1170	352	894	203	142	162	174	115	114	191
18	81	208	1140	417	871	193	141	159	164	113	113	184
19	74	197	1100	493	846	184	133	156	156	111	111	184
20	72	208	1070	508	822	175	124	154	149	109	109	175
21	69	403	1040	489	796	210	119	154	143	106	106	165
22	68	586	1010	466	770	249	113	153	138	105	103	154
23	71	612	985	458	743	306	109	152	136	105	101	144
24	113	583	958	653	712	375	102	151	135	106	98	135
25	185	524	929	871	685	404	99	151	134	106	95	124
26	269	446	902	1070	706	411	100	149	133	106	91	113
27	290	404	874	1110	727	396	96	148	133	142	88	105
28	276	451	847	1100	715	369	91	147	132	137	85	101
29	256	569	827	1070	---	338	88	146	131	131	139	93
30	236	736	806	1050	---	309	87	143	131	130	253	91
31	218	---	782	1050	---	284	---	141	---	130	361	---
TOTAL	3667	11699	32840	18678	25898	10490	4451	4699	4935	3739	3952	6475
MEAN	118	390	1059	603	925	338	148	152	165	121	127	216
MAX	290	736	1310	1110	1180	677	261	215	253	142	361	398
MIN	68	197	782	295	685	175	87	84	131	105	85	91
CFSM	.49	1.63	4.41	2.51	3.85	1.41	.62	.63	.69	.50	.53	.90
IN.	.57	1.81	5.09	2.90	4.01	1.63	.69	.73	.76	.58	.61	1.00
AC-FT	7270	23200	65140	37050	51370	20810	8830	9320	9790	7420	7840	12840
CAL YR 1977	TOTAL	156053	MEAN 428	MAX 1310	MIN 68	CFSM 1.78	IN 24.19	AC-FT 309500				
WTR YR 1978	TOTAL	131523	MEAN 360	MAX 1310	MIN 68	CFSM 1.50	IN 20.39	AC-FT 260900				

MISSISSIPPI RIVER DELTA

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.41	8.01	17.22	13.34	16.12	12.61	8.25	5.33	6.25	6.25	6.24	8.92
2	5.34	9.85	17.50	13.09	16.56	12.08	7.97	5.26	6.26	6.23	6.24	8.51
3	5.32	9.52	17.40	12.77	16.72	11.47	7.71	5.66	6.32	6.21	6.23	8.22
4	5.28	10.33	17.20	12.25	16.62	10.86	7.49	5.97	6.32	6.21	6.22	9.13
5	5.23	10.53	16.99	11.61	16.43	10.34	7.28	5.99	6.30	6.20	6.20	9.86
6	5.19	10.20	16.76	10.99	16.21	9.88	7.10	5.96	6.32	6.18	6.18	9.76
7	5.15	9.79	16.52	10.42	15.99	9.61	6.93	6.00	6.72	6.17	6.17	9.34
8	5.15	9.38	16.29	10.26	15.76	9.40	6.78	6.06	6.73	6.15	6.15	8.89
9	5.28	9.18	16.04	9.92	15.55	9.16	6.64	6.38	7.48	6.14	6.13	8.48
10	5.32	9.23	15.79	9.68	15.33	8.92	6.54	7.39	8.05	6.12	6.11	8.16
11	5.62	9.33	15.56	9.45	15.10	8.66	6.64	7.32	8.17	6.10	6.09	7.96
12	5.71	9.17	15.32	9.36	14.91	8.42	6.64	7.18	8.11	6.09	6.08	7.96
13	5.69	8.86	15.41	9.16	14.94	8.21	6.63	7.03	7.88	6.07	6.07	7.93
14	5.63	8.56	16.26	8.94	14.99	8.09	6.56	6.87	7.61	6.05	6.06	7.83
15	5.57	8.29	16.73	8.71	14.90	7.89	6.47	6.74	7.37	6.04	6.04	7.67
16	5.52	8.03	16.78	8.72	14.73	7.65	6.40	6.61	7.16	6.03	6.01	7.49
17	5.47	7.78	16.62	9.36	14.53	7.45	6.32	6.51	6.96	5.99	5.97	7.25
18	5.41	7.52	16.42	10.06	14.33	7.28	6.28	6.45	6.81	5.96	5.95	7.13
19	5.26	7.34	16.20	10.83	14.12	7.13	6.14	6.40	6.67	5.92	5.93	7.14
20	5.22	7.50	15.98	10.99	13.92	6.99	6.00	6.37	6.56	5.89	5.89	6.99
21	5.17	9.84	15.76	10.80	13.69	7.51	5.90	6.37	6.45	5.84	5.85	6.82
22	5.14	11.76	15.51	10.57	13.46	8.11	5.81	6.35	6.38	5.82	5.79	6.63
23	5.20	12.01	15.28	10.48	13.22	8.85	5.74	6.34	6.34	5.82	5.75	6.48
24	5.96	11.73	15.06	12.37	12.94	9.61	5.61	6.33	6.32	5.84	5.70	6.31
25	7.15	11.14	14.82	14.85	12.68	9.92	5.55	6.32	6.31	5.84	5.64	6.13
26	8.38	10.36	14.60	15.97	13.03	10.00	5.55	6.32	6.29	5.84	5.59	5.95
27	8.65	9.92	14.36	16.24	13.07	9.84	5.48	6.30	6.28	6.44	5.53	5.83
28	8.48	10.41	14.13	16.16	12.96	9.54	5.40	6.30	6.27	6.35	5.48	5.75
29	8.21	12.54	13.96	15.98	---	9.20	5.34	6.30	6.26	6.26	6.38	5.62
30	7.93	15.72	13.78	15.84	---	8.86	5.32	6.28	6.25	6.24	8.11	5.58
31	7.67	---	13.57	15.80	---	8.55	---	6.26	---	6.23	9.46	---
MEAN	5.99	9.79	15.80	11.77	14.74	9.10	6.42	6.35	6.77	6.08	6.17	7.52
MAX	8.65	15.72	17.50	16.24	16.72	12.61	8.25	7.39	8.17	6.44	9.46	9.86
MIN	5.14	7.34	13.57	8.71	12.68	6.99	5.32	5.26	6.25	5.82	5.48	5.58

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1943-44, 1952-54, 1960, 1966, 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN-DISSOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED AS (MG/L CAC03)	HARDNESS, NONCARBONATE, DIS-SOLVED AS (MG/L CAC03)
NOV 18...	1230	45	5.7	16.0	90	10	5.9	1.5	K40	K120	13	2
FEB 16...	1400	31	5.2	9.0	80	20	9.2	3.5	<5	K30	7	1
APR 21...	1100	52	6.4	20.5	50	4	7.1	1.8	420	670	10	0
JUL 14...	1030	58	6.1	28.5	20	5	2.9	2.7	K55	960	10	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HC03)	CARBONATE (MG/L AS C03)	ALKALINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLORIDE, DIS-SOLVED (MG/L AS CL)
NOV 18...	3.1	1.2	5.2	44	.6	1.5	13	0	11	3.5	6.4
FEB 16...	1.7	.7	2.7	42	.4	.9	7	0	6	4.4	3.5
APR 21...	3.1	.5	5.6	52	.8	1.0	18	0	15	2.4	5.4
JUL 14...	2.0	1.1	6.7	56	.9	1.6	17	0	14	2.5	6.8

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N03)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 18...	.0	16	67	43	.09	.05	.54	.59	2.6	.03	--
FEB 16...	.0	6.8	34	24	.05	.08	.23	.31	1.4	.61	7.1
APR 21...	.1	8.7	45	36	.06	.01	.88	.89	3.9	.04	--
JUL 14...	.0	17	47	46	.06	.02	1.1	1.1	5.0	.03	--

	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	
FEB 16...		1	14	0	5	40	0	2	4	40	5900

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOVERY FROM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)	MANGANESE, RECOVERY FROM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY RECOVERY FROM BOTTOM MATERIAL (UG/L AS HG)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOVERY FROM BOTTOM MATERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
FEB 16...	0	100	10	7300	.0	.0	0	200	.00	4

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

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

MISSISSIPPI RIVER DELTA

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)
FEB 16...	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
FEB 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB 16...	0	.00	.00	.00	.00

MISSISSIPPI RIVER DELTA

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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 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 31.50 ft (9.601 m) Apr. 26, 1977; minimum, not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 38.65 ft (11.781 m) May 19, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 30.60 ft (9.327 m) Dec. 5; minimum, not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.81	14.95	29.26	18.91	28.10	19.98	---	14.98	15.48	12.61	13.54	18.15
2	14.63	20.45	29.99	18.56	28.49	19.74	---	14.86	15.81	12.50	13.37	17.62
3	14.47	23.89	30.35	18.28	28.65	19.42	---	14.81	16.08	12.38	13.26	17.39
4	14.24	22.86	30.52	18.41	28.60	18.86	---	15.10	16.44	12.26	13.22	18.46
5	14.06	21.08	30.58	18.62	28.33	18.20	---	15.12	16.37	12.24	13.19	18.12
6	13.90	19.31	30.45	18.21	27.91	17.61	15.97	15.02	16.51	12.25	13.11	17.72
7	13.75	18.04	30.12	17.61	27.34	17.46	15.67	14.96	18.58	12.28	---	17.47
8	13.64	17.22	29.69	17.24	26.48	17.68	15.36	15.60	21.14	12.30	---	17.38
9	13.64	17.02	29.27	17.33	25.19	17.83	15.10	15.79	20.24	12.31	---	17.22
10	13.64	18.08	28.73	17.98	23.45	17.78	14.98	15.87	19.79	12.26	---	15.86
11	16.21	18.24	28.12	18.17	21.65	17.67	15.61	15.84	19.45	12.23	---	15.60
12	17.12	17.38	27.40	18.06	20.31	17.59	16.86	15.71	19.76	12.19	---	15.23
13	16.83	16.65	26.72	18.29	21.82	17.46	17.99	15.47	19.11	12.20	---	14.96
14	15.72	16.15	27.14	18.11	23.20	17.55	18.12	15.20	18.22	12.17	---	14.87
15	15.34	16.13	27.37	17.72	22.93	---	17.88	14.98	17.77	12.05	---	14.76
16	15.03	16.16	27.41	17.27	21.80	---	17.53	14.91	17.38	11.99	12.92	14.81
17	14.70	16.14	27.21	19.04	20.64	---	17.06	14.96	16.94	11.92	12.98	14.69
18	14.42	15.95	26.70	20.11	19.96	---	16.62	16.05	16.46	11.82	12.94	14.44
19	14.24	15.73	25.90	20.15	19.53	---	16.37	16.19	15.95	11.80	12.78	14.22
20	14.11	15.55	24.77	20.64	19.15	---	16.27	15.98	15.44	11.73	12.65	13.97
21	13.89	16.18	23.55	19.99	18.84	---	16.21	15.70	14.98	11.64	12.58	13.74
22	13.68	21.35	21.98	19.09	18.97	---	16.13	15.48	14.70	---	12.53	13.49
23	13.58	22.10	20.79	18.42	18.72	---	16.03	15.34	14.45	---	12.49	13.50
24	14.40	21.22	20.22	22.26	18.39	---	15.93	15.21	14.19	---	12.48	13.48
25	14.33	19.74	19.87	27.10	18.32	---	15.82	15.19	13.91	13.40	12.49	13.39
26	14.93	18.38	19.54	27.91	19.14	---	15.68	15.51	13.66	13.27	12.43	13.28
27	15.40	17.56	19.26	28.26	20.96	---	15.55	15.59	13.40	13.21	12.32	13.01
28	15.41	20.72	19.01	28.33	20.15	---	15.40	15.66	13.11	13.77	12.26	12.81
29	15.33	24.42	18.91	28.21	---	---	15.27	15.71	12.88	14.17	16.37	12.78
30	15.22	28.00	19.08	28.02	---	---	15.11	15.74	12.74	13.91	18.73	12.69
31	15.09	---	19.05	27.97	---	---	---	15.62	---	13.71	18.76	---
MEAN	14.70	18.89	25.45	20.78	22.75	---	---	15.42	16.36	---	---	15.17
MAX	17.12	28.00	30.58	28.33	28.65	---	18.12	16.19	21.14	14.17	18.76	18.46
MIN	13.58	14.95	18.91	17.24	18.32	---	14.98	14.81	12.74	---	12.26	12.69

MISSISSIPPI RIVER DELTA

07382500 BAYOU COURTABLEAU AT WASHINGTON, LA

LOCATION.--Lat 30°37'05", long 92°03'20", in lot 81, T.5 S., R.4 E., Louisiana meridian, St. Landry Parish, 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 (9.7 km) north of Opelousas.

DRAINAGE AREA.--715 mi² (1,852 km²). See REMARKS.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1948, 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--32 years, 1,055 ft³/s (29.96 m³/s), 764,300 acre-ft/yr (942 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, 5,100 ft³/s (144 m³/s) Dec. 6, maximum elevation, 28.37 ft (8.647 m) Dec. 3; minimum daily discharge, 105 ft³/s (2.97 m³/s) July 20, 21, minimum elevation, 12.01 ft (3.661 m) July 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	360	4050	1340	3980	1360	680	250	230	118	248	514
2	257	2000	4390	1260	4070	1230	600	240	270	129	246	430
3	249	2780	4700	1140	4150	1120	540	230	320	122	231	448
4	232	2310	4940	978	4250	965	470	220	368	124	218	491
5	227	1760	5050	984	4280	835	450	215	424	128	217	453
6	224	1300	5060	1040	4190	753	400	220	620	135	218	476
7	220	1010	4930	961	4000	647	382	230	1000	135	205	462
8	218	863	4750	879	3700	666	345	240	1440	135	200	468
9	222	858	4590	850	3330	667	305	260	1320	135	200	419
10	239	1060	4380	846	2690	598	258	290	1150	135	195	469
11	830	1020	4140	862	2080	551	300	330	1150	135	195	464
12	709	843	3860	839	1620	536	350	401	1290	135	190	374
13	516	714	3600	891	2040	518	390	393	1020	135	190	358
14	374	573	3690	873	2460	530	438	350	658	135	185	346
15	277	441	3780	825	2390	500	458	303	472	130	185	348
16	260	448	3820	696	2110	470	479	248	397	125	185	350
17	259	453	3810	1050	1770	450	472	300	359	120	187	313
18	255	415	3660	1510	1570	430	428	373	326	115	193	286
19	258	381	3380	1500	1440	410	325	323	302	110	195	292
20	256	366	2980	1650	1340	390	285	311	255	105	188	289
21	233	518	2610	1480	1210	400	283	319	226	105	184	285
22	214	1870	2120	1280	1080	500	305	287	217	110	188	275
23	220	2140	1770	1120	1030	700	290	249	189	115	182	324
24	440	1860	1610	1790	1020	1000	299	227	161	125	182	338
25	363	1460	1520	3340	945	1200	291	240	158	280	198	337
26	459	1140	1430	3510	1310	1300	293	250	150	236	201	325
27	483	944	1360	3820	1810	1300	296	260	137	211	197	282
28	427	1850	1310	4060	1640	1200	295	280	130	321	189	253
29	398	3060	1290	4160	---	1100	280	285	125	364	484	255
30	385	3900	1340	4150	---	900	270	290	125	259	729	259
31	375	---	1350	4080	---	740	---	240	---	244	656	---
TOTAL	10342	38697	101270	53764	67505	23966	11257	8654	14989	4911	7461	10983
MEAN	334	1290	3267	1734	2411	773	375	279	500	158	241	366
MAX	830	3900	5060	4160	4280	1360	680	401	1440	364	729	514
MIN	214	360	1290	696	945	390	258	215	125	105	182	253
AC-FT	20510	76760	200900	106600	133900	47540	22330	17170	29730	9740	14800	21780
CAL YR 1977	TOTAL	461283	MEAN	1264	MAX	5210	MIN	132	AC-FT	915000		
WTR YR 1978	TOTAL	353799	MEAN	969	MAX	5060	MIN	105	AC-FT	701800		

MISSISSIPPI RIVER DELTA

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07382500 BAYOU COURTABLEAU AT WASHINGTON, LA--Continued

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.14	15.17	27.70	18.05	26.25	19.41	17.88	---	16.01	13.03	13.81	18.43
2	14.97	19.47	28.26	17.77	26.67	19.33	17.57	---	16.36	12.90	13.64	17.94
3	14.80	22.20	28.35	17.63	26.79	19.12	17.20	---	16.54	12.79	13.55	17.68
4	14.58	21.58	28.27	18.10	26.56	18.67	16.83	---	16.76	12.67	13.53	18.79
5	14.39	20.14	28.16	18.32	26.14	18.09	16.53	---	16.63	12.63	13.50	18.46
6	14.22	18.66	27.96	17.75	25.66	17.52	16.22	---	17.24	12.59	13.42	18.01
7	14.07	17.60	27.70	17.17	25.13	17.53	15.93	---	19.28	12.64	13.35	17.76
8	13.94	16.89	27.35	16.89	24.38	17.75	15.63	---	20.72	12.67	13.15	17.66
9	13.94	16.68	26.99	17.04	23.15	17.92	15.41	---	19.82	12.68	13.03	17.53
10	13.90	17.57	26.54	17.81	21.71	17.94	15.34	---	19.51	12.64	12.91	16.01
11	15.66	17.82	26.04	18.01	20.33	17.89	16.21	---	19.10	12.61	12.78	15.71
12	17.03	17.11	25.45	17.91	19.38	17.81	17.41	15.95	19.25	12.56	12.73	15.44
13	17.00	16.51	24.87	18.09	20.64	17.69	18.50	15.69	18.89	12.54	12.72	15.16
14	16.00	16.17	25.33	17.92	21.77	17.76	18.48	15.44	18.35	12.54	12.85	15.07
15	15.72	16.35	25.50	17.54	21.50	17.78	18.20	15.28	18.06	12.53	13.09	14.96
16	15.40	16.38	25.50	17.22	20.48	17.65	17.80	15.28	17.72	12.53	13.28	15.01
17	15.04	16.35	25.25	18.82	19.54	17.41	17.31	15.39	17.30	12.53	13.33	14.93
18	14.74	16.19	24.75	19.31	19.02	17.12	16.90	16.35	16.83	12.39	13.28	14.70
19	14.53	16.01	24.06	19.38	18.67	16.82	16.74	16.56	16.33	12.15	13.12	14.45
20	14.39	15.82	23.13	19.77	18.35	16.53	16.67	16.35	15.84	12.09	12.98	14.19
21	14.19	16.29	22.01	19.21	18.21	16.75	16.61	16.05	15.39	12.02	12.92	13.95
22	14.00	20.32	20.68	18.39	18.60	18.68	16.51	15.85	15.10	---	12.87	13.70
23	13.87	20.82	19.73	17.88	18.31	18.96	16.42	15.74	14.87	---	12.83	13.61
24	14.31	20.15	19.27	21.69	18.01	19.04	16.31	15.62	14.63	---	12.82	13.56
25	14.41	18.92	18.98	25.78	18.04	19.77	16.19	15.72	14.34	---	12.80	13.47
26	14.92	17.79	18.71	26.64	18.77	19.34	16.05	16.01	14.08	13.54	12.73	13.38
27	15.44	17.15	18.45	26.69	19.88	18.76	15.90	16.07	13.83	13.53	12.64	13.18
28	15.56	19.50	18.22	26.47	19.12	18.54	15.75	16.13	13.56	13.91	12.59	13.02
29	15.51	22.49	18.16	26.13	---	18.49	---	16.19	13.33	14.25	16.54	12.98
30	15.41	26.22	18.26	25.89	---	18.35	---	16.22	13.17	14.17	18.84	12.89
31	15.27	---	18.20	25.91	---	18.14	---	16.04	---	13.99	18.95	---
MEAN	14.91	18.34	23.80	20.04	21.47	18.15	---	---	16.63	---	13.57	15.39
MAX	17.03	26.22	28.35	26.69	26.79	19.77	18.50	16.56	20.72	14.25	18.95	18.79
MIN	13.87	15.17	18.16	16.89	18.01	16.53	---	---	13.17	12.02	12.59	12.89

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 Glaises.

DRAINAGE AREA.--270 mi² (699 km²).

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

REVISED RECORDS.--WDR LA-77-1: 1973-76.

GAGE.--Water-stage recorder. Datum of gage is 23.46 ft (7.151 m) National Geodetic Vertical Datum of 1929 (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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Diversion channel carries natural flow of Bayou des Glaises 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--35 years, 428 ft³/s (12.12 m³/s) 310,100 acre-ft/yr (382 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, 2,230 ft³/s (63.2 m³/s) Nov. 30, gage height, 21.00 ft (6.401 m); minimum, 15 ft³/s (0.42 m³/s) Aug. 11, gage height, 2.57 ft (0.783 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	82	2120	308	1830	404	123	38	83	24	40	598
2	41	827	2040	249	1910	291	117	33	65	28	50	505
3	41	1040	1870	200	1760	219	109	63	73	41	60	353
4	41	869	2000	162	1620	178	99	88	170	39	50	251
5	43	832	2020	138	1580	156	94	93	209	44	35	170
6	40	788	1990	122	1480	139	90	77	160	86	30	112
7	40	700	1900	112	1370	132	90	62	224	81	25	86
8	46	500	1740	151	1260	160	89	68	647	55	20	70
9	50	508	1650	297	1150	230	84	152	677	38	21	59
10	53	651	1510	336	1040	233	72	179	532	40	17	54
11	49	670	1380	277	946	204	65	134	546	68	15	57
12	254	592	1250	224	865	172	63	109	540	61	16	61
13	231	414	1260	207	1110	159	67	95	370	44	16	93
14	167	266	2000	199	993	160	69	90	255	37	19	133
15	117	188	1780	179	917	157	63	93	176	34	59	128
16	85	138	1550	191	875	140	57	83	152	32	86	117
17	74	112	1490	688	798	127	55	84	107	30	63	93
18	65	97	1450	732	663	116	61	79	83	29	40	73
19	59	96	1380	780	468	109	72	86	76	24	33	61
20	55	101	1300	780	343	102	76	96	54	24	39	56
21	55	405	1200	717	264	116	59	120	50	23	34	56
22	52	1170	1090	653	211	205	45	98	51	19	31	59
23	49	1000	988	619	180	168	43	92	41	20	37	68
24	49	934	890	1170	169	213	39	92	36	29	37	76
25	141	929	775	1680	155	430	51	73	36	44	28	78
26	238	802	583	1540	347	408	47	66	31	35	24	77
27	188	690	357	1470	623	320	33	76	34	41	24	76
28	137	1160	239	1510	542	230	28	80	33	100	25	72
29	108	1440	200	1490	---	167	27	496	32	120	187	68
30	94	2150	257	1540	---	155	35	138	27	80	583	63
31	84	---	332	1650	---	138	---	69	---	50	628	---
TOTAL	2790	20151	40591	20371	25469	6138	2022	3202	5570	1420	2372	3823
MEAN	90.0	672	1309	657	910	198	67.4	103	186	45.8	76.5	127
MAX	254	2150	2120	1680	1910	430	123	496	677	120	628	598
MIN	40	82	200	112	155	102	27	33	27	19	15	54
AC-FT	5530	39970	80510	40410	50520	12170	4010	6350	11050	2820	4700	7580
CAL YR 1977	TOTAL	195016	MEAN 534	MAX 2720	MIN 19	AC-FT 386800						
WTR YR 1978	TOTAL	133919	MEAN 367	MAX 2150	MIN 15	AC-FT 265600						

MISSISSIPPI RIVER DELTA

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07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.36	3.88	20.15	5.80	15.56	6.50	4.26	3.27	3.83	2.98	---	7.80
2	3.31	10.07	18.88	5.35	15.46	5.68	4.21	3.19	3.63	3.08	---	7.16
3	3.32	10.38	17.72	4.94	14.00	5.10	4.12	3.60	3.71	3.32	---	6.05
4	3.32	9.43	16.85	4.61	13.40	4.75	4.02	3.89	4.67	3.27	---	5.25
5	3.34	9.22	15.98	4.40	12.96	4.56	3.95	3.96	5.02	3.32	---	4.53
6	3.40	8.96	15.18	4.26	12.51	4.41	3.93	3.77	4.59	3.89	---	3.99
7	3.40	8.44	14.50	4.16	12.01	4.35	3.93	3.59	5.13	3.82	---	3.70
8	3.39	7.15	13.74	4.51	11.47	4.59	3.92	3.66	8.10	3.51	2.78	3.51
9	3.44	7.21	13.27	5.72	10.93	5.19	3.84	4.52	8.29	3.27	2.85	3.38
10	3.47	8.13	12.64	6.00	10.38	5.22	3.71	4.76	7.37	3.30	2.66	3.32
11	4.33	8.25	12.04	5.57	9.86	4.97	3.62	4.36	7.45	3.67	2.59	3.36
12	5.37	7.76	11.45	5.14	9.53	4.70	3.61	4.13	7.42	3.58	2.65	3.41
13	5.19	6.56	12.41	4.99	11.30	4.58	3.65	3.98	6.25	3.35	2.61	3.77
14	4.65	5.46	15.75	4.93	10.11	4.59	3.68	3.91	5.40	3.25	2.77	4.19
15	4.19	4.83	13.80	4.76	9.70	4.57	3.62	3.96	4.73	3.20	3.54	4.14
16	3.86	4.39	12.85	4.85	9.46	4.41	3.53	3.85	4.53	3.16	3.88	4.04
17	3.73	4.14	12.57	8.34	9.02	4.30	3.51	3.85	4.10	3.13	3.61	3.77
18	3.63	3.99	12.37	8.63	8.21	4.20	3.58	3.79	3.85	3.10	3.30	3.54
19	3.55	3.98	12.08	8.91	6.94	4.12	3.71	3.88	3.75	2.96	3.18	3.40
20	3.50	4.03	11.67	8.91	6.06	4.05	3.76	3.98	3.49	2.96	3.28	3.35
21	3.50	6.78	11.17	8.54	5.47	4.19	3.56	4.23	3.45	2.92	3.20	3.34
22	3.46	11.42	10.63	8.15	5.03	4.98	3.37	4.01	3.45	2.76	3.14	3.39
23	3.43	10.17	10.09	7.93	4.77	4.66	3.35	3.93	3.32	2.81	3.25	3.48
24	3.42	9.79	9.55	13.25	4.67	5.03	3.28	3.93	3.23	3.09	3.24	3.58
25	4.42	9.76	8.88	16.50	4.55	6.69	3.46	3.72	3.23	3.36	3.08	3.61
26	5.25	9.04	7.70	14.53	6.02	6.53	3.39	3.64	3.13	3.22	2.98	3.59
27	4.83	9.33	6.16	12.89	7.95	5.89	3.17	3.76	3.20	3.31	2.98	3.58
28	4.38	12.17	5.27	12.67	7.44	5.19	3.07	3.80	3.17	---	2.99	3.54
29	4.10	14.34	4.94	12.59	---	4.66	3.05	7.13	3.16	---	4.72	3.49
30	3.95	20.85	5.41	12.77	---	4.54	3.21	4.39	3.06	---	7.70	3.44
31	3.85	---	5.97	13.38	---	4.40	---	3.67	---	---	7.99	---
MEAN	3.88	8.33	11.99	8.00	9.46	4.89	3.64	4.00	4.59	---	---	4.02
MAX	5.37	20.85	20.15	16.50	15.56	6.69	4.26	7.13	8.29	---	7.99	7.80
MIN	3.31	3.88	4.94	4.16	4.55	4.05	3.05	3.19	3.06	2.76	2.59	3.32

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) National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 22.76 ft (6.937 m) Apr. 21, 1977; minimum, 2.14 ft (0.652 m) Nov. 11, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 21.82 ft (6.651 m) Nov. 30; minimum, 2.38 ft (0.725 m) Aug. 11.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.71	3.38	20.99	5.03	15.82	5.57	3.53	2.87	3.20	2.55	2.82	7.03
2	2.67	11.12	19.70	4.65	15.45	4.77	3.49	2.81	3.11	2.59	2.99	6.49
3	2.65	10.42	18.35	4.27	13.53	4.27	3.42	3.08	3.19	2.74	3.15	5.43
4	2.65	8.85	17.21	3.97	13.07	3.97	3.33	3.31	3.43	2.75	3.00	4.69
5	2.65	8.30	15.97	3.77	12.01	3.79	3.27	3.40	3.96	2.76	2.78	4.04
6	2.69	7.99	14.77	3.64	11.52	3.66	3.25	3.24	4.55	3.26	2.71	3.54
7	2.71	7.48	13.92	3.56	11.01	3.60	3.26	3.08	4.38	3.23	2.57	3.28
8	2.70	6.40	13.16	3.82	10.48	3.78	3.25	3.06	---	2.98	2.50	3.12
9	2.75	6.30	12.45	4.86	9.93	4.28	3.19	3.76	---	2.78	2.55	3.00
10	2.75	7.12	11.77	5.17	9.40	4.39	3.10	4.00	---	2.77	2.45	2.95
11	3.51	7.17	11.10	4.83	8.87	4.14	3.07	3.69	---	3.08	2.40	2.97
12	4.75	6.77	---	4.49	8.82	3.95	3.06	3.47	---	3.03	2.42	3.02
13	4.47	5.70	---	4.36	11.62	3.83	3.09	3.34	---	2.83	2.42	3.25
14	3.94	4.66	---	4.30	9.62	3.82	3.09	3.26	---	2.75	2.49	3.71
15	3.51	4.04	---	4.14	8.84	3.82	3.03	3.31	---	2.70	3.07	3.15
16	3.23	3.65	---	4.46	8.48	3.67	2.97	3.22	---	2.68	3.42	3.09
17	3.06	3.42	---	7.95	8.06	3.57	2.95	3.23	---	2.65	3.23	3.36
18	2.95	3.28	---	7.84	7.32	3.47	2.99	3.17	---	2.64	2.96	3.16
19	2.87	3.25	---	8.33	6.15	3.40	3.09	3.21	---	2.56	2.83	3.03
20	2.81	3.31	---	8.32	5.24	3.34	3.16	3.29	---	2.54	2.90	2.98
21	2.80	7.18	---	7.78	4.63	3.53	3.04	3.44	---	2.55	2.86	2.97
22	2.77	11.56	9.60	7.40	4.25	4.21	2.86	3.51	---	2.48	2.80	3.00
23	2.71	9.70	9.05	7.42	3.99	3.90	2.86	3.29	---	2.48	2.87	3.08
24	2.73	8.92	8.52	14.12	3.88	4.40	2.80	3.30	---	2.64	2.90	3.17
25	3.54	8.48	7.90	17.40	3.78	5.82	2.94	3.24	---	2.88	2.78	3.19
26	4.38	8.02	6.83	15.10	4.90	5.62	2.96	3.07	---	2.74	2.70	3.18
27	4.05	9.35	5.47	12.81	6.82	5.04	2.81	3.08	---	2.83	2.69	3.17
28	3.64	12.84	4.63	12.17	6.42	4.38	2.74	3.14	2.66	3.54	2.72	3.12
29	3.38	15.32	4.32	11.83	---	3.88	2.72	3.18	2.66	3.74	4.19	3.08
30	3.24	21.75	4.72	12.10	---	3.78	2.86	8.17	2.60	3.30	6.84	3.02
31	3.14	---	5.17	12.92	---	3.65	---	4.79	---	2.96	7.22	---
MEAN	3.17	7.86	---	7.51	8.71	4.11	3.07	3.48	---	2.84	3.10	3.54
MAX	4.75	21.75	20.99	17.40	15.82	5.82	3.53	8.17	---	3.74	7.22	7.03
MIN	2.65	3.25	4.32	3.56	3.78	3.34	2.72	2.81	2.60	2.48	2.40	2.95

MISSISSIPPI RIVER DELTA

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07384400 STATE CANAL NEAR KROTZ SPRINGS, LA

LOCATION.--Lat 30°33'55", long 91°49'55", in NW¼ 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) National Geodetic Vertical Datum of 1929. Crest-stage gage prior to 1967 at datum 2.55 ft (0.777 m) lower.

REMARKS.--No gage heights recorded below 9.99 ft (3.045 m).

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, 17.18 ft (5.236 m) Feb. 3; minimum not determined.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.52	11.05	16.70	14.75	16.99	13.88	13.37	12.89	13.40	10.37	10.90	13.85
2	12.33	11.62	16.83	14.45	17.13	13.85	13.20	12.75	13.73	10.22	10.93	14.13
3	12.15	13.40	16.88	14.29	17.16	14.05	13.05	12.73	13.78	10.11	10.93	14.05
4	11.94	14.90	16.95	14.10	17.17	14.14	12.91	12.78	13.88	9.99	10.79	14.37
5	11.74	14.93	17.03	13.93	17.11	14.07	12.77	12.75	13.86	---	10.75	14.44
6	11.56	14.64	17.08	13.81	17.02	13.93	12.68	12.65	14.15	---	10.70	14.30
7	11.38	14.30	17.10	13.72	16.95	13.78	12.62	12.48	14.70	---	10.62	13.45
8	11.23	14.19	17.08	13.71	16.82	13.64	12.63	13.30	15.29	---	10.47	13.10
9	11.21	14.00	17.07	13.66	16.67	13.54	12.73	13.29	15.55	---	10.33	13.00
10	11.11	13.70	16.99	13.58	16.48	13.43	12.88	13.16	15.50	---	10.20	12.95
11	11.55	13.43	16.91	13.52	16.26	13.32	13.02	13.06	15.35	---	10.08	12.81
12	11.78	13.28	16.82	13.47	16.02	13.22	13.58	12.95	15.17	---	10.00	12.68
13	12.05	13.14	16.69	13.37	15.85	13.12	14.45	12.92	14.92	---	---	12.54
14	12.23	12.99	16.88	13.35	15.81	13.12	14.78	12.82	14.62	---	10.04	12.66
15	12.28	12.82	16.92	13.39	15.86	13.17	14.77	12.76	14.28	---	10.18	12.64
16	12.23	12.66	16.90	13.48	15.73	13.20	14.68	12.63	13.99	---	10.23	12.65
17	12.13	12.53	16.85	13.68	15.62	13.21	14.58	12.59	13.75	---	10.27	12.62
18	12.03	12.39	16.78	13.97	15.47	13.19	14.49	13.12	13.47	---	10.32	12.46
19	11.91	12.26	16.68	14.23	15.30	13.05	14.38	13.28	13.25	---	10.33	12.33
20	11.69	12.15	16.56	14.48	15.09	12.92	14.26	13.29	13.02	---	10.33	12.15
21	11.52	12.06	16.38	14.62	14.87	12.82	14.20	13.25	12.83	---	10.30	11.98
22	11.33	12.45	16.16	14.65	14.59	13.03	14.18	13.25	12.45	---	10.13	11.83
23	11.15	14.05	15.97	14.58	14.37	13.17	14.03	13.17	12.21	---	10.09	11.68
24	11.17	14.30	15.76	14.86	14.16	13.30	13.93	13.11	11.97	---	10.06	11.56
25	11.42	14.18	15.55	16.61	13.96	13.75	13.82	13.04	11.69	10.13	10.05	11.43
26	11.31	13.90	15.33	16.75	13.79	14.01	13.68	13.36	11.42	10.24	9.99	11.33
27	11.24	13.61	15.13	16.82	13.67	14.09	13.54	13.42	11.16	10.35	---	11.24
28	11.18	14.21	14.93	16.86	13.88	14.00	13.37	13.45	10.92	10.53	---	11.15
29	11.15	15.01	14.78	16.88	---	13.87	13.21	13.50	10.67	10.66	11.69	11.15
30	11.11	16.32	14.73	16.88	---	13.70	13.05	13.58	10.51	10.77	11.63	11.10
31	11.09	---	14.62	16.91	---	13.53	---	13.52	---	10.84	11.96	---
MEAN	11.64	13.48	16.36	14.62	15.71	13.52	13.63	13.06	13.38	---	---	12.59
MAX	12.52	16.32	17.10	16.91	17.17	14.14	14.78	13.58	15.55	10.84	11.96	14.44
MIN	11.09	11.05	14.62	13.35	13.67	12.62	12.62	12.48	10.51	---	---	11.10

MISSISSIPPI RIVER DELTA

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 07385500).

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 National Geodetic Vertical Datum of 1929. 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 Glaives 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, about 23.0 ft (7.01 m) Apr. 21, 1977; minimum, 10.14 ft (3.091 m) Sept. 24, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 18.26 ft (5.566 m) Jan. 25; minimum, 10.18 ft (3.103 m) July 20, 22, 23.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.49	18.09	13.74	17.07	14.66	14.42	12.56	13.01	10.72	11.69	15.37
2	---	15.10	18.14	13.60	17.40	14.91	14.21	12.48	13.30	10.60	11.43	14.72
3	---	15.54	18.07	13.55	17.11	14.90	13.96	12.68	13.42	10.48	11.25	14.31
4	---	15.13	17.75	14.01	16.73	14.73	13.69	12.64	13.52	10.37	11.19	15.42
5	---	14.61	17.37	14.36	16.41	14.42	13.43	12.58	13.48	10.30	11.13	15.03
6	---	14.10	17.10	14.07	16.19	14.04	13.20	12.51	15.16	10.38	11.13	14.57
7	---	13.68	16.91	13.67	16.03	13.97	12.97	12.71	16.08	10.51	11.15	14.28
8	---	13.34	16.78	13.71	15.85	14.12	12.76	13.21	15.97	10.59	11.01	14.09
9	---	13.16	16.66	13.46	15.58	14.26	12.57	13.20	15.22	10.56	10.90	14.26
10	---	13.38	16.57	13.85	15.23	14.36	12.47	13.14	15.04	10.53	10.80	13.53
11	---	13.79	16.44	14.25	14.87	14.39	13.21	13.10	14.81	10.55	10.73	13.83
12	---	13.61	16.21	14.29	14.54	14.35	14.22	12.99	14.67	10.55	10.70	13.05
13	---	13.27	16.18	14.28	14.59	14.29	15.18	12.80	14.73	10.54	10.67	12.46
14	---	13.00	17.04	14.20	15.01	14.30	15.05	12.60	14.63	10.53	10.81	12.28
15	---	13.15	16.85	14.03	15.08	14.32	14.80	12.47	14.53	10.46	11.10	12.14
16	---	13.25	16.52	13.84	14.83	14.27	14.51	12.45	14.34	10.39	11.06	12.40
17	---	13.25	16.29	14.36	14.51	14.14	14.15	12.53	14.05	10.32	11.08	12.80
18	---	13.18	16.11	14.32	14.27	13.96	13.78	13.15	13.71	10.24	11.11	12.34
19	---	13.09	15.95	14.52	14.09	13.76	13.58	13.30	13.32	10.22	11.01	11.97
20	---	12.97	15.79	14.63	13.93	13.54	13.50	13.28	12.92	10.22	10.92	11.68
21	---	12.97	15.58	14.42	13.86	13.49	13.46	13.14	12.58	10.24	10.86	11.45
22	---	14.17	15.26	14.06	14.32	14.27	13.41	12.95	12.34	10.20	10.74	11.26
23	---	14.59	14.77	13.80	14.28	14.86	13.35	12.84	12.17	10.22	10.70	11.12
24	---	14.43	14.52	15.90	14.05	14.94	13.28	12.76	11.99	10.40	10.67	11.03
25	---	14.14	14.38	17.95	14.09	15.06	13.18	12.76	11.77	10.75	10.67	10.97
26	---	13.80	14.24	18.13	14.21	15.02	13.06	12.98	11.55	11.19	10.63	10.91
27	---	13.53	14.10	17.73	14.61	14.83	12.95	13.04	11.36	11.37	10.59	10.86
28	12.58	13.77	13.94	17.21	14.15	14.78	12.84	13.08	11.16	11.37	10.59	10.75
29	12.63	14.78	14.12	16.67	---	14.76	12.75	13.14	13.97	11.56	10.69	10.70
30	12.58	16.87	14.21	16.43	---	14.70	12.65	13.17	10.84	11.72	16.64	10.65
31	12.50	---	13.90	16.54	---	14.58	---	13.11	---	11.70	16.15	---
MEAN	---	13.87	15.99	14.83	15.10	14.42	13.55	12.88	13.52	10.64	11.28	12.67
MAX	---	16.87	18.14	18.13	17.40	15.06	15.18	13.30	16.08	11.72	16.64	15.42
MIN	---	12.49	13.90	13.46	13.86	13.49	12.47	12.45	10.84	10.20	10.59	10.65

MISSISSIPPI RIVER DELTA

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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 National Geodetic Vertical Datum of 1929. Prior to May 11, 1949, nonrecording gage. May 12, 1949, to May 11, 1960, water-stage recorder, May 26, 1960, to Aug. 15, 1961, nonrecording gage. All gages at same site and datum. Water-stage recorder for Bayou Teche at Robin (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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--29 years, 829 ft³/s (23.48 m³/s), 600,600 acre-ft/yr (741 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, 2,070 ft³/s (58.6 m³/s) Dec. 3, maximum elevation, 17.64 ft (5.377 m) Jan. 25, minimum discharge, 95 ft³/s (2.69 m³/s) July 24, minimum elevation, 10.02 ft (3.054 m) July 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	510	551	1610	715	1550	961	860	589	643	267	346	884
2	500	1050	1800	688	1470	978	830	557	682	251	331	871
3	490	987	2030	706	1460	956	800	544	717	237	313	864
4	470	914	2020	831	1470	916	768	563	738	226	307	1110
5	460	852	1890	872	1390	851	723	584	754	224	300	988
6	440	782	1770	749	1310	768	680	571	800	220	297	909
7	430	698	1680	710	1270	787	637	563	942	223	299	866
8	420	648	1640	628	1200	819	596	670	1080	224	276	855
9	430	604	1560	656	1110	847	568	698	990	224	258	832
10	420	677	1580	765	1020	869	554	694	1010	221	248	608
11	1100	759	1540	835	942	876	662	687	973	218	237	480
12	1300	704	1360	818	885	853	868	670	956	214	235	410
13	1250	660	1200	829	912	843	1030	628	967	215	225	390
14	800	601	1420	817	1010	842	1030	596	936	210	255	370
15	700	620	1510	779	1000	848	989	571	907	200	286	390
16	640	646	1480	746	936	820	933	558	865	192	283	470
17	600	636	1400	860	869	800	857	490	803	184	291	600
18	560	622	1350	837	822	770	787	620	740	182	291	520
19	520	609	1310	870	796	740	757	714	673	177	270	440
20	500	596	1290	894	774	730	751	724	597	167	259	390
21	480	543	1260	842	763	720	749	694	549	173	250	370
22	450	747	1160	761	879	720	735	668	508	174	241	350
23	440	897	935	725	831	800	722	648	484	177	239	340
24	430	867	915	1260	791	1000	709	636	455	192	236	330
25	480	832	868	1540	812	940	695	632	425	232	236	325
26	500	768	848	1480	842	900	663	678	388	286	229	328
27	540	706	817	1480	915	860	655	695	361	314	221	306
28	560	800	764	1450	802	960	628	697	331	317	215	291
29	554	900	761	1380	---	920	623	710	305	357	580	292
30	536	1300	738	1390	---	900	595	691	284	378	751	288
31	519	---	738	1390	---	880	---	656	---	348	873	---
TOTAL	18029	22576	41244	29303	28831	26474	22454	19716	20063	7224	9678	16487
MEAN	582	753	1330	945	1030	854	748	636	695	233	312	550
MAX	1300	1300	2030	1540	1550	1000	1030	724	1080	378	873	1110
MIN	420	543	738	628	763	720	554	490	284	167	215	288
AC-FT	35760	44780	81810	58120	57190	52510	44540	39110	41380	14330	19200	32700

CAL YR 1977 TOTAL 308644 MEAN 846 MAX 3500 MIN 245 AC-FT 612200
WTR YR 1978 TOTAL 262879 MEAN 720 MAX 2030 MIN 167 AC-FT 521400

MISSISSIPPI RIVER DELTA

07385500 BAYOU TECHE AT ARNAUDVILLE, LA--Continued

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.11	12.06	17.43	13.30	16.30	14.11	---	12.15	12.58	10.49	11.43	14.88
2	12.04	14.45	17.34	13.18	16.74	14.36	---	12.09	12.86	10.38	11.18	14.20
3	11.98	15.03	17.04	13.11	16.42	14.36	---	12.32	12.96	10.27	11.00	13.82
4	11.75	14.64	16.63	13.50	15.97	14.21	13.16	12.24	13.05	10.16	10.95	14.81
5	11.60	14.13	16.31	13.85	15.67	13.93	12.97	12.17	13.00	10.09	10.89	14.44
6	11.48	13.64	16.11	13.63	15.49	13.58	12.75	12.11	14.86	10.18	10.90	14.01
7	11.37	13.25	15.98	13.24	15.35	13.50	12.55	12.33	15.63	10.31	10.91	13.75
8	11.28	12.93	15.87	13.34	15.21	13.63	12.35	12.77	15.43	10.39	10.79	13.59
9	11.35	12.78	15.80	13.06	14.97	13.77	12.18	12.74	14.68	10.36	10.68	13.75
10	11.26	12.95	15.68	13.39	14.67	13.86	12.08	12.69	14.48	10.34	10.59	13.17
11	11.51	13.33	15.56	13.76	14.34	13.88	12.79	12.64	14.25	10.36	10.53	13.52
12	13.10	13.17	15.45	13.82	14.03	13.85	13.70	12.54	14.12	10.36	10.50	---
13	13.33	12.85	15.56	13.80	14.07	13.79	14.62	12.37	14.18	10.35	10.48	---
14	12.83	12.61	16.37	13.72	14.44	13.81	14.46	12.18	14.08	10.34	10.61	---
15	12.56	12.75	16.08	13.56	14.52	13.82	14.22	12.06	14.00	10.28	10.88	---
16	12.36	12.84	15.72	13.39	14.31	13.81	13.95	12.05	13.84	10.21	10.83	---
17	12.13	12.85	15.52	13.79	14.01	---	13.62	12.19	13.57	10.16	10.85	---
18	11.90	12.77	15.37	13.84	13.79	---	13.28	12.76	13.25	10.08	10.87	---
19	11.71	12.69	15.23	14.03	13.62	---	13.09	12.83	12.89	10.06	10.78	---
20	11.58	12.58	15.07	14.12	13.47	---	13.02	12.80	12.53	10.07	10.70	---
21	11.47	12.64	14.86	13.93	13.40	---	12.99	12.68	12.21	10.08	10.64	---
22	11.34	13.80	14.57	13.61	13.80	---	12.93	12.49	11.98	10.04	10.53	---
23	11.22	14.06	14.24	13.36	13.79	---	12.88	12.39	11.82	10.05	10.49	---
24	11.18	13.91	14.02	15.23	13.58	---	12.81	12.32	11.65	10.23	10.47	---
25	11.32	13.63	13.88	17.31	13.60	---	12.72	12.32	11.45	10.55	10.47	---
26	11.51	13.32	13.74	17.54	13.71	---	12.62	12.52	11.25	10.96	10.44	10.67
27	11.89	13.08	13.60	17.10	14.08	---	12.51	12.58	11.07	11.13	10.39	10.63
28	12.18	13.64	13.48	16.54	13.68	---	12.41	12.61	10.89	11.12	10.42	10.53
29	12.26	14.66	13.68	15.98	---	---	12.32	12.67	10.72	11.29	15.63	10.48
30	12.22	17.04	13.79	15.70	---	---	12.24	12.72	10.60	11.44	16.31	10.44
31	12.14	---	13.46	15.82	---	---	---	12.68	---	11.45	15.70	---
MEAN	11.87	13.47	15.27	14.31	14.54	---	---	12.45	13.00	10.44	11.22	---
MAX	13.33	17.04	17.43	17.54	16.74	---	---	12.83	15.63	11.45	16.31	---
MIN	11.18	12.06	13.46	13.06	13.40	---	---	12.05	10.60	10.04	10.39	---

07385500 BAYOU TECHE AT ARNAUDVILLE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1955-56, 1959-60, 1967-73, 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
NOV 09...	1130	121	7.1	19.0	160	35	6.2	1.6	K200	K220	44	5
FEB 10...	0950	72	7.0	7.0	80	60	10.1	1.5	120	--	30	5
MAY 22...	1030	277	7.1	26.0	60	65	5.0	.7	--	--	93	0
JUL 18...	1415	407	7.5	31.0	20	10	7.3	.5	8800	650	150	10

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 09...	10	4.6	6.2	22	.4	3.6	47	0	39	8.9	8.3
FEB 10...	7.2	2.8	3.8	21	.3	1.8	30	0	25	7.1	4.6
MAY 22...	22	9.3	16	26	.7	3.4	118	0	97	11	17
JUL 18...	35	14	27	28	1.0	3.2	171	0	140	6.2	39

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 09...	.1	12	90	77	.12	.23	.69	.92	4.1	.19	11
FEB 10...	.1	5.2	54	47	.07	.11	.51	.62	2.7	.15	--
MAY 22...	.2	8.4	153	145	.21	.56	2.5	3.1	14	.15	--
JUL 18...	.1	15	229	224	.31	.13	1.3	1.4	6.3	.16	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 09...	1	19	1	<1	6	0	5	11	270	7100	2	20

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
NOV 09...	80	2100	.0	.0	8	18	.00	2	.0	2	.00

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

MISSISSIPPI RIVER DELTA

07385500 BAYOU TECHE AT ARNAUDVILLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
NOV 09...	.00	.0	.0	7	.00	8.9	.00	9.0	.00	14	.00

DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
NOV 09...	.0	.00	.9	.00	.0	.00	.0	.00	.2	.00

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 09...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 09...		0	14	.00	.0	.09	.01

MERMENTAU RIVER BASIN

213

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) National Geodetic Vertical Datum of 1929 (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) National Geodetic Vertical Datum of 1929. 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--40 years, 264 ft³/s (7.48 m³/s), 27.37 in/yr (695 mm/yr), 191,300 acre-ft/yr (236 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, 5,640 ft³/s (160 m³/s) Dec. 1, gage height, 18.86 ft (5.749 m); minimum, 1.6 ft³/s (0.05 m³/s) May 17; minimum gage height, 1.07 ft (0.320 m) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	9.7	5580	31	1420	42	38	17	7.7	5.7	66	55
2	3.9	1230	5150	21	1830	16	32	18	35	5.2	96	22
3	3.5	1080	2570	16	818	11	42	291	543	4.6	79	12
4	3.5	255	867	14	226	12	70	291	1280	4.9	46	133
5	4.1	74	271	12	93	11	60	73	490	5.2	28	50
6	4.1	39	101	16	69	12	39	37	177	5.7	25	16
7	4.0	25	60	16	60	14	53	83	626	17	24	7.7
8	4.7	21	39	70	41	31	56	260	933	43	42	6.7
9	153	24	205	88	31	12	55	96	315	44	45	106
10	77	42	122	38	31	11	73	68	106	67	27	151
11	692	22	51	22	31	12	116	29	96	57	31	450
12	548	13	29	288	33	11	148	22	374	85	164	134
13	114	9.7	197	272	750	9.0	201	21	116	112	100	56
14	42	8.7	1420	85	250	31	88	9.3	55	114	80	30
15	22	8.0	711	41	86	33	43	4.1	24	119	396	20
16	15	7.0	159	52	58	15	39	2.7	14	110	156	19
17	10	8.1	90	740	47	9.0	51	2.0	14	77	61	18
18	8.9	6.9	57	303	46	7.0	107	79	9.7	119	24	12
19	5.9	6.3	36	445	36	8.1	88	24	19	119	14	47
20	6.1	7.6	27	594	24	6.5	61	8.2	16	97	9.9	78
21	4.8	91	24	152	20	9.1	30	8.0	7.8	100	8.1	36
22	3.5	191	21	79	24	132	25	8.0	5.7	249	7.0	19
23	3.1	70	16	57	11	59	22	4.6	4.4	425	5.7	12
24	3.8	30	13	1510	12	80	22	6.0	4.4	430	4.6	8.6
25	5.7	20	13	4330	12	172	28	5.5	5.6	282	3.6	6.5
26	6.9	64	10	3560	11	61	36	4.0	6.3	202	3.0	5.3
27	5.6	40	9.4	1240	11	27	23	3.4	6.0	136	2.6	5.0
28	3.9	28	9.7	450	40	21	17	3.5	5.4	132	7.5	8.3
29	3.1	464	45	167	---	32	12	5.8	5.7	110	1000	45
30	2.7	4360	93	285	---	26	12	5.9	6.2	71	500	19
31	2.9	---	49	1040	---	49	---	13	---	44	150	---
TOTAL	1771.3	8255.0	18045.1	16034	6121	981.7	1687	1503.0	5305.9	3392.3	3206.0	1588.1
MEAN	57.1	275	582	517	219	31.7	56.2	48.5	177	109	103	52.9
MAX	692	4360	5580	4330	1830	172	201	291	1280	430	1000	450
MIN	2.7	6.3	9.4	12	11	6.5	12	2.0	4.4	4.6	2.6	5.0
CFSM	.44	2.10	4.44	3.95	1.67	.24	.43	.37	1.35	.83	.79	.40
IN	.50	2.34	5.12	4.55	1.74	.28	.48	.43	1.51	.96	.91	.45
AC-FT	3510	16370	35790	31800	12140	1950	3350	2980	10520	6730	6360	3150
CAL YR 1977 TOTAL	103546.55			MEAN 284	MAX 6700	MIN .95	CFSM 2.17	IN 29.40	AC-FT 205400			
WTR YR 1978 TOTAL	67890.40			MEAN 186	MAX 5580	MIN 2.0	CFSM 1.42	IN 19.28	AC-FT 134700			

MERMENTAU RIVER BASIN

0801000 BAYOU DES CANNES NEAR EUNICE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.44	1.71	18.81	2.82	13.35	3.24	3.05	2.29	1.79	1.43	3.37	3.13
2	1.47	12.26	18.48	2.48	15.36	2.33	2.86	2.35	2.83	1.39	4.06	2.19
3	1.43	12.87	16.32	2.26	11.26	2.07	3.15	6.17	8.20	1.35	3.67	1.78
4	1.43	7.09	12.36	2.14	5.96	2.12	3.89	7.34	13.60	1.36	2.93	4.79
5	1.50	3.98	7.52	2.06	4.45	2.09	3.64	3.96	9.27	1.39	2.43	3.03
6	1.50	3.07	4.74	2.24	3.88	2.13	3.07	3.01	5.98	1.43	2.34	1.97
7	1.48	2.62	3.64	2.25	3.66	2.19	3.48	3.78	10.03	2.03	2.28	1.56
8	1.54	2.45	3.08	3.84	3.23	2.90	3.54	6.97	11.97	2.84	2.82	1.50
9	5.64	2.58	6.14	4.30	2.86	2.12	3.54	4.52	7.08	2.87	2.88	4.19
10	4.08	3.16	5.13	3.05	2.87	2.07	3.97	3.82	4.25	3.40	2.39	4.68
11	9.85	2.50	3.40	2.49	2.86	2.16	4.92	2.76	3.92	3.17	2.50	8.52
12	9.75	2.10	2.76	6.36	2.93	2.10	5.65	2.52	7.63	3.82	5.32	4.90
13	5.01	1.92	4.57	7.19	10.50	1.96	6.39	2.45	4.43	4.36	4.12	3.15
14	3.17	1.86	13.92	4.27	7.35	2.85	4.34	1.88	3.14	4.41	3.69	2.48
15	2.52	1.81	11.11	3.15	4.31	3.00	3.21	1.49	2.28	4.52	7.77	2.13
16	2.18	1.73	5.95	3.17	3.61	2.31	3.09	1.33	1.87	4.33	5.25	2.11
17	1.95	1.82	4.37	10.56	3.31	1.98	3.39	1.24	1.77	3.63	3.25	2.07
18	1.87	1.74	3.58	7.62	3.30	1.84	4.73	4.01	1.68	4.52	2.28	1.81
19	1.66	1.68	2.99	8.04	3.02	1.91	4.34	2.52	2.08	4.52	1.88	2.94
20	1.67	1.79	2.70	10.04	2.67	1.80	3.66	1.82	1.97	4.07	1.69	3.65
21	1.57	4.13	2.59	5.78	2.50	1.86	2.79	1.81	1.57	4.12	1.59	2.66
22	1.44	6.20	2.47	4.12	2.68	5.37	2.62	1.81	1.43	5.84	1.52	2.11
23	1.38	3.88	2.22	3.56	2.08	3.62	2.49	1.54	1.33	8.20	1.43	1.80
24	1.46	2.78	2.10	11.29	2.15	3.92	2.50	1.66	1.33	8.26	1.34	1.62
25	1.64	2.41	2.10	17.79	2.16	6.09	2.71	1.62	1.42	6.94	1.24	1.49
26	1.74	3.75	1.96	16.70	2.11	3.67	3.00	1.49	1.47	5.99	1.18	1.40
27	1.63	3.10	1.90	13.94	2.08	2.67	2.54	1.42	1.45	4.86	1.13	1.37
28	1.47	2.71	1.92	9.39	3.13	2.42	2.30	1.43	1.41	4.77	1.58	1.60
29	1.38	6.62	3.09	6.14	---	2.86	2.03	1.65	1.43	4.32	12.10	2.88
30	1.34	17.80	4.45	6.36	---	2.65	2.02	1.62	1.46	3.50	10.55	2.08
31	1.36	---	3.36	12.36	---	3.36	---	2.11	---	2.86	5.33	---
MEAN	2.50	4.14	5.80	6.38	4.63	2.70	3.43	2.72	4.00	3.89	3.42	2.72
MAX	9.85	17.80	18.81	17.79	15.36	6.09	6.39	7.34	13.60	8.26	12.10	8.52
MIN	1.34	1.68	1.90	2.06	2.08	1.80	2.02	1.24	1.33	1.35	1.13	1.37

08011500 BOGGY BAYOU NEAR PINE PRAIRIE, LA

LOCATION.--Lat 30°46'10", long 92°28'03", in SE 1/4 sec. 21, T.3 S., R.1 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) National Geodetic Vertical Datum of 1929. Jan. 28, 1952, to Oct. 14, 1958, and Aug. 2, 1961, to Nov. 9, 1965, crest-stage 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--15 years (1948-51, 1966-78), 81.2 ft³/s (2.300 m³/s), 21.50 in/yr (546 mm/yr), 58,830 acre-ft/yr (72.5 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 discharges above base of 1,000 ft³/s (28.3 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)
Nov. 30	unknown	*5020 142	415.54 4.737	Jan. 25	1415	1790 50.7	13.72 4.182

a Annual maximum from floodmark.

Minimum discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	5.6	1700	21	548	13	8.4	1.4	3.3	0	2.0	35
2	1.3	76	1020	18	711	12	7.4	.67	3.1	0	1.1	23
3	1.4	54	600	15	483	11	6.8	13	21	0	4.0	19
4	1.1	28	300	14	314	11	6.8	15	84	0	3.4	59
5	.99	15	200	12	115	9.8	6.6	11	92	0	1.5	38
6	.94	10	140	11	65	9.0	6.6	8.6	36	0	.55	18
7	.80	8.0	100	11	52	8.6	6.5	7.4	44	0	.08	14
8	.76	7.8	70	32	44	8.4	6.6	6.3	215	0	0	12
9	2.8	16	50	46	38	8.2	6.8	6.5	228	.05	0	12
10	3.6	12	36	36	33	8.0	6.5	8.0	197	.20	0	26
11	37	8.4	32	24	30	7.4	8.4	6.1	43	.10	0	32
12	23	6.3	29	26	38	7.4	7.8	4.7	32	1.3	8.9	28
13	12	5.4	143	33	294	7.4	7.4	5.1	20	2.8	5.6	24
14	6.5	5.9	677	31	197	7.2	8.6	3.5	12	.98	2.3	19
15	4.1	5.7	691	24	113	7.0	10	1.7	8.6	.25	.72	14
16	3.3	5.9	422	42	61	6.6	9.6	.67	6.8	1.2	.09	26
17	2.8	5.9	230	278	43	6.1	7.0	1.6	5.4	.85	0	20
18	2.4	5.2	76	208	36	5.4	5.9	7.0	4.1	.49	0	17
19	2.2	5.0	52	144	32	4.9	4.7	3.3	3.2	.55	0	26
20	2.0	6.0	41	124	29	4.4	3.9	1.8	2.6	.25	0	28
21	2.0	110	34	82	25	16	4.0	2.4	1.9	.15	0	15
22	1.9	120	29	51	22	100	4.7	2.1	4.9	.31	0	11
23	2.0	60	25	51	20	63	3.7	3.3	3.3	.49	0	9.5
24	28	15	23	577	18	50	5.4	6.8	2.0	.61	0	8.2
25	139	10	21	1480	16	65	4.4	36	1.1	2.2	0	7.2
26	172	7.0	19	1210	16	45	2.0	8.8	.49	17	0	6.4
27	95	6.0	17	705	14	30	.61	4.6	.10	20	0	5.7
28	19	8.0	16	342	14	20	.05	3.6	0	5.2	1.6	5.2
29	10	200	22	114	---	14	1.5	8.6	0	6.5	688	4.8
30	7.2	2500	30	126	---	12	2.8	7.2	0	4.7	489	4.2
31	5.7	---	25	279	---	9.8	---	5.2	---	3.2	126	---
TOTAL	592.09	3328.1	6870	6167	3421	587.6	171.46	201.94	1079.89	69.38	1334.84	567.2
MEAN	19.1	111	222	199	122	19.0	5.72	6.51	35.0	2.24	43.1	18.9
MAX	172	2500	1700	1480	711	100	10	36	228	20	688	59
MIN	.76	5.0	16	11	14	4.4	.05	.67	0	0	0	4.2
CFSM	.37	2.16	4.33	3.88	2.38	.37	.11	.13	.70	.04	.84	.37
IN.	.43	2.41	4.98	4.47	2.48	.43	.12	.15	.78	.05	.97	.41
AC-FT	1170	6600	13630	12230	6790	1170	340	401	2140	138	2650	1130
CAL YR 1977	TOTAL	33135.53	MEAN	90.8	MAX	3450	MIN	0	CFSM	1.77	IN	24.03
WTR YR 1978	TOTAL	24390.50	MEAN	66.8	MAX	2500	MIN	0	CFSM	1.30	IN	17.69
									AC-FT	65720		
										48380		

MERMENTAU RIVER BASIN

08011500 BOGGY BAYOU NEAR PINE PRAIRIE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.69	2.94	---	3.73	10.04	3.31	3.09	2.61	2.79	2.32	2.68	4.10
2	2.70	5.07	12.30	3.62	11.08	3.28	3.04	2.50	2.76	2.30	2.56	3.70
3	2.70	4.63	---	3.52	9.71	3.23	3.01	3.27	3.62	2.27	2.82	3.54
4	2.66	3.90	---	3.44	8.25	3.20	3.01	3.41	5.37	2.23	2.79	4.54
5	2.64	3.40	---	3.38	5.77	3.16	3.00	3.22	5.43	2.19	2.61	4.14
6	2.63	3.18	---	3.34	4.92	3.12	3.00	3.10	4.13	2.16	2.48	3.50
7	2.59	3.07	---	3.31	4.60	3.10	2.99	3.04	4.19	2.14	2.39	3.34
8	2.58	3.06	---	4.11	4.38	3.09	3.00	2.98	7.19	2.15	2.33	3.25
9	2.89	3.44	---	4.52	4.22	3.08	3.00	2.99	7.36	2.37	2.28	3.23
10	2.98	3.25	4.15	4.26	4.08	3.07	2.98	3.07	6.94	2.42	2.24	3.75
11	4.22	3.09	4.03	3.87	3.96	3.04	3.09	2.97	4.30	2.40	2.20	4.01
12	3.82	2.98	3.92	3.93	4.13	3.04	3.06	2.90	4.02	2.50	3.09	3.86
13	3.41	2.93	5.51	4.18	8.06	3.04	3.03	2.91	3.61	2.75	2.94	3.74
14	3.16	2.96	10.89	4.09	6.95	3.03	3.10	2.79	3.29	2.55	2.69	3.52
15	3.03	2.95	10.96	3.86	5.76	3.02	3.18	2.63	3.11	2.43	2.51	3.35
16	2.95	2.96	9.24	4.21	4.82	3.00	3.15	2.50	3.01	2.57	2.39	3.80
17	2.91	2.96	7.33	7.91	4.37	2.97	3.03	2.54	2.93	2.53	2.31	3.58
18	2.86	2.92	5.21	7.12	4.16	2.93	2.96	3.01	2.85	2.48	2.26	3.44
19	2.84	---	4.69	6.29	4.03	2.90	2.90	2.79	2.77	2.48	2.22	3.73
20	2.81	---	4.40	6.02	3.94	2.87	2.83	2.65	2.73	2.43	2.19	3.86
21	2.81	---	4.20	5.32	3.81	3.36	2.85	2.71	2.67	2.41	2.16	3.36
22	2.79	---	4.04	4.65	3.69	5.58	2.89	2.68	2.90	2.43	2.13	3.20
23	2.80	---	3.91	4.66	3.60	4.87	2.82	2.76	2.79	2.47	2.10	3.11
24	3.87	---	3.82	10.38	3.53	4.56	2.92	3.00	2.67	2.49	2.08	3.04
25	6.19	---	3.73	13.42	3.47	4.92	2.87	4.11	2.57	2.66	2.06	2.99
26	6.66	---	3.66	12.90	3.42	---	2.67	3.10	2.47	3.30	2.04	2.94
27	5.40	---	3.58	10.98	3.38	---	2.49	2.88	2.40	3.58	2.02	2.90
28	3.57	---	3.53	8.48	3.35	---	2.39	2.80	2.37	2.92	2.14	2.87
29	3.17	---	3.77	5.78	---	---	2.57	3.09	2.34	2.98	10.83	2.85
30	3.03	---	4.05	5.90	---	3.25	2.75	3.03	2.32	2.89	9.57	2.81
31	2.95	---	3.88	7.90	---	3.16	---	2.92	---	2.78	5.86	---
MEAN	3.30	---	---	5.52	5.20	---	2.92	2.93	3.60	2.53	3.00	3.47
MAX	6.66	---	---	13.42	11.08	5.58	3.18	4.11	7.36	3.58	10.83	4.54
MIN	2.58	2.92	3.53	3.31	3.35	2.87	2.39	2.50	2.32	2.14	2.02	2.81

08012000 BAYOU NEZPIQUE NEAR BASILE, LA

LOCATION.--Lat 30°28'50", long 92°37'55", in NE¼NW¼ sec.1, T.7 S., R.3 W., Evangeline Parish, 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) National Geodetic Vertical Datum of 1929. Prior to July 1947, non-recording 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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records of water temperatures for the water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--40 years, 802 ft³/s (22.71 m³/s), 20.67 in/yr (525 mm/yr), 581,000 acre-ft/yr (716 hm³/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, 10,000 ft³/s (283 m³/s) Dec. 3, gage height, 25.69 ft (7.830 m); minimum, 5.0 ft³/s (0.142 m³/s) Oct. 8, gage height, 1.32 ft (0.402 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	73	7650	250	3800	131	139	48	92	60	153	2700
2	7.9	240	9400	229	4160	122	128	47	133	66	194	2310
3	7.1	817	9700	186	4450	97	109	100	355	72	163	1950
4	6.7	864	8960	163	3980	79	115	343	1110	66	106	950
5	6.7	624	7760	140	3190	68	148	355	1190	60	80	570
6	7.1	369	6370	120	2600	68	145	258	980	56	64	240
7	5.9	188	5140	100	2210	67	139	181	1210	64	54	176
8	5.8	108	4550	130	1790	91	118	165	2110	76	42	92
9	212	87	4210	170	1420	121	114	167	2060	76	42	62
10	345	160	3580	220	647	103	106	156	2430	70	40	249
11	521	159	2350	350	395	80	131	133	1500	62	39	918
12	1170	124	1390	300	252	70	212	97	1230	86	149	1290
13	1220	89	556	648	522	67	258	81	951	132	146	963
14	801	64	1560	636	1190	64	272	70	460	169	93	221
15	431	45	2430	450	1160	62	202	58	377	190	254	183
16	217	31	2570	335	941	64	138	43	204	193	350	241
17	114	24	2440	878	668	54	137	36	128	176	250	229
18	70	20	2500	1670	413	54	139	546	95	159	190	166
19	47	17	1730	1810	282	58	156	730	85	164	130	127
20	32	14	1260	1850	221	82	139	448	72	181	90	193
21	24	90	880	1830	185	82	116	214	63	172	54	190
22	19	399	482	1190	154	100	96	126	55	190	40	154
23	16	685	275	580	131	100	91	92	48	253	30	136
24	257	693	186	1420	110	186	84	66	45	339	25	95
25	1190	520	138	4060	93	349	73	53	48	377	20	62
26	1910	348	111	5810	90	388	78	48	53	364	15	43
27	2240	354	94	5160	76	331	86	46	56	310	12	31
28	1730	522	94	4950	90	245	77	52	49	301	62	25
29	1000	1940	111	4530	---	189	62	50	46	366	1970	21
30	493	4850	140	4080	---	152	52	41	54	281	3020	19
31	178	---	187	3740	---	132	---	68	---	189	3200	---
TOTAL	14293.0	14518	88804	47985	35220	3856	3860	4918	17889	5320	11077	14606
MEAN	461	484	2865	1548	1258	124	129	159	596	172	357	487
MAX	2240	4850	9700	5810	4450	388	272	730	2660	377	3200	2700
MIN	5.8	14	94	100	76	54	52	36	45	56	12	19
AC-FT	28350	28800	176100	95180	69860	7650	7660	9750	35480	10550	21970	28970
CAL YR 1977	TOTAL	332072.1	MEAN	910	MAX	10600	MIN	5.8	AC-FT	658700		
WTR YR 1978	TOTAL	262346.0	MEAN	719	MAX	9700	MIN	5.8	AC-FT	520400		

MERMENIAU RIVER BASIN

08012000 BAYOU NEZPIQUE NEAR BASILE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.50	3.32	23.73	5.84	21.05	4.19	4.32	2.66	3.52	2.93	4.52	19.14
2	1.47	5.48	25.25	5.57	21.31	4.04	4.13	2.64	4.21	3.03	5.10	18.26
3	1.43	11.00	25.61	4.99	---	3.62	3.82	3.62	6.91	3.17	4.66	16.83
4	1.41	11.49	25.29	4.66	---	3.29	3.91	6.89	12.69	3.04	3.77	14.34
5	1.41	9.56	24.52	4.37	---	3.09	4.44	7.05	13.51	2.93	3.31	11.12
6	1.43	7.19	23.44	4.12	---	3.08	4.40	5.93	12.38	2.84	3.00	7.48
7	1.37	5.29	22.38	4.05	18.47	3.06	4.32	4.91	13.23	2.99	2.79	5.18
8	1.35	4.11	21.43	4.60	17.29	3.51	3.96	4.69	16.35	3.24	2.53	3.96
9	5.12	3.76	20.76	5.67	15.68	4.01	3.90	4.71	17.74	3.24	2.52	3.31
10	6.94	4.77	19.94	6.85	12.24	3.70	3.76	4.55	17.17	3.11	2.47	5.52
11	8.58	4.76	18.79	7.00	8.40	---	4.18	4.22	15.76	2.95	2.46	11.50
12	13.03	4.14	16.44	6.45	6.19	---	5.34	3.61	14.46	3.41	4.43	13.67
13	13.30	3.50	13.30	9.76	8.69	---	5.94	3.33	12.99	4.20	4.40	11.95
14	10.89	3.01	15.39	9.68	13.18	---	6.11	3.13	10.25	4.74	3.55	8.88
15	7.80	2.58	17.70	8.02	13.01	2.97	5.20	2.87	7.27	5.05	5.89	6.58
16	5.37	2.26	18.28	6.82	11.81	3.00	4.30	2.55	5.22	5.08	---	5.73
17	3.89	2.05	18.15	11.15	9.96	2.78	4.29	2.38	4.14	4.85	---	5.56
18	3.13	1.92	18.14	15.00	7.66	2.78	4.32	8.65	3.59	4.60	---	4.70
19	2.62	1.82	16.08	15.46	6.24	2.86	4.56	10.42	3.40	4.67	---	4.12
20	2.28	1.74	14.51	15.68	5.47	3.35	4.31	7.97	3.17	4.91	---	5.07
21	2.06	3.33	13.06	15.67	4.97	3.35	3.93	5.34	2.98	4.79	---	5.05
22	1.90	7.48	10.05	14.29	4.53	3.67	3.60	4.10	2.81	5.05	---	4.66
23	1.79	10.09	6.76	11.76	4.18	3.66	3.51	3.51	2.65	5.87	---	4.25
24	5.05	10.16	5.05	14.14	3.84	4.92	3.38	3.05	2.59	6.88	---	3.58
25	13.10	8.66	4.42	19.82	3.55	6.99	3.18	2.76	2.65	7.30	1.92	2.96
26	15.74	6.97	4.05	21.78	3.50	7.41	3.27	2.66	2.76	7.16	1.77	2.53
27	16.67	7.04	3.73	22.15	3.24	6.78	3.41	2.62	2.83	6.56	1.64	2.24
28	15.85	8.45	3.62	21.97	3.49	5.76	3.26	2.74	2.67	6.45	2.34	2.10
29	13.15	15.69	3.86	21.65	---	5.03	2.95	2.71	2.61	7.18	16.17	1.98
30	8.85	20.91	4.33	21.34	---	4.51	2.75	2.50	2.78	6.22	18.63	1.90
31	5.04	---	5.00	21.07	---	4.20	---	3.06	---	5.02	19.43	---
MEAN	6.24	6.42	14.94	11.66	---	---	4.09	4.25	7.51	4.63	---	7.14
MAX	16.67	20.91	25.61	22.15	---	7.41	6.11	10.42	17.74	7.30	19.43	19.14
MIN	1.35	1.74	3.62	4.05	3.24	---	2.75	2.38	2.59	2.84	1.64	1.90

CALCASIEU RIVER BASIN

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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: 1944-47.

GAGE.--Water-stage recorder. Datum of gage is 110.77 ft (33.763 m) National Geodetic Vertical Datum of 1929. 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--35 years, 710 ft³/s (20.11 m³/s), 19.32 in/yr (491 mm/yr), 514,400 acre-ft/yr (634 hm³/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)
Jan. 27	1715	*8690 246	*14.86 4.529	Feb. 5	0115	4820 137	13.94 4.249

Minimum discharge, 22 ft³/s (0.62 m³/s) Aug. 13, gage height, 4.38 ft (1.335 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	98	2020	452	2930	319	311	49	53	41	47	79
2	37	727	1840	553	2880	302	233	49	69	38	47	91
3	36	816	1960	583	3210	291	192	51	62	37	39	105
4	35	605	2190	525	4300	273	166	52	59	36	34	115
5	34	508	2260	435	4470	252	148	50	61	39	30	76
6	33	295	2170	336	3610	237	135	50	55	37	28	56
7	34	178	1840	263	2890	235	124	60	101	35	27	56
8	34	165	1260	285	2260	265	115	66	311	36	26	73
9	40	356	680	615	1690	306	107	80	385	40	25	94
10	51	475	403	1020	1090	410	102	138	672	39	24	77
11	71	383	281	1370	688	510	101	129	1560	35	23	58
12	84	260	227	1520	564	577	99	103	2500	32	23	49
13	71	205	368	1360	726	558	99	87	2130	31	23	56
14	66	168	1410	1090	923	472	106	72	1420	30	25	67
15	60	138	1740	834	1440	372	106	63	557	30	26	53
16	57	116	1690	721	2000	297	101	57	209	29	27	46
17	62	101	1760	955	1800	252	94	53	127	28	28	56
18	56	90	1760	1130	1500	219	89	52	99	28	40	98
19	50	82	1720	1300	1100	192	83	49	85	27	48	158
20	45	77	1670	1470	900	171	77	47	75	28	58	162
21	41	76	1240	1590	780	184	73	45	67	29	45	117
22	39	108	684	1720	660	279	69	43	62	31	36	79
23	41	351	402	1860	580	326	66	41	57	31	31	71
24	183	523	288	2610	508	497	63	39	53	30	28	67
25	461	509	236	3700	452	670	60	38	50	28	25	56
26	526	384	205	4830	395	731	58	37	47	27	24	49
27	293	302	183	7880	365	847	56	36	45	38	23	42
28	158	265	167	7100	336	939	54	35	42	35	24	38
29	102	332	164	4730	---	931	52	34	41	31	44	35
30	81	1630	205	3570	---	729	50	34	41	35	54	32
31	69	---	287	3060	---	477	---	33	---	38	55	---
TOTAL	2987	10323	33310	59467	45047	13120	3189	1772	11095	1029	1037	2211
MEAN	96.4	344	1075	1918	1609	423	106	57.2	370	33.2	33.5	73.7
MAX	526	1630	2260	7880	4470	939	311	138	2500	41	58	162
MIN	33	76	164	263	336	171	50	33	41	27	23	32
CFSM	.19	.69	2.15	3.84	3.22	.85	.21	.11	.74	.07	.07	.15
IN.	.22	.77	2.48	4.43	3.36	.98	.24	.13	.83	.08	.08	.16
AC-FT	5920	20480	66070	118000	89350	26020	6330	3510	22010	2040	2060	4390
CAL YR 1977	TOTAL	227749	MEAN	624	MAX	7880	MIN	29	CFSM	1.25	IN	16.98
WTR YR 1978	TOTAL	184587	MEAN	506	MAX	7880	MIN	23	CFSM	1.01	IN	13.76
									AC-FT	451700	AC-FT	366100

CALCASIEU RIVER BASIN

08013000 CALCASIEU RIVER NEAR GLENMORA, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.66	5.81	12.61	9.53	13.17	8.62	8.54	5.04	5.11	4.84	4.98	5.70
2	4.64	10.46	12.44	10.10	13.15	8.48	7.84	5.02	5.49	4.77	4.98	5.94
3	4.63	10.94	12.55	10.22	13.31	8.39	7.41	5.08	5.33	4.74	4.80	6.20
4	4.60	10.31	12.73	9.96	13.77	8.23	7.09	5.09	5.25	4.72	4.67	6.37
5	4.58	9.85	12.78	9.43	13.84	8.04	6.85	5.05	5.30	4.80	4.58	5.62
6	4.56	8.39	12.71	8.74	13.50	7.89	6.66	5.05	5.16	4.74	4.53	5.19
7	4.57	7.24	12.43	8.14	13.15	7.87	6.50	5.27	5.97	4.69	4.49	5.19
8	4.58	7.04	11.73	8.30	12.77	8.16	6.36	5.40	8.55	4.71	4.47	5.55
9	4.73	8.84	10.53	10.31	12.27	8.50	6.24	5.69	9.08	4.81	4.44	5.99
10	4.98	9.68	9.21	11.35	11.46	9.27	6.14	6.71	10.48	4.79	4.43	5.64
11	5.45	9.08	8.29	11.90	10.60	9.88	6.12	6.58	12.08	4.70	4.41	5.24
12	5.74	8.10	7.79	12.09	10.14	10.20	6.08	6.16	12.93	4.63	4.40	5.04
13	5.44	7.55	8.60	11.88	10.73	10.11	6.10	5.87	12.68	4.60	4.39	5.19
14	5.34	7.11	11.94	11.49	11.18	9.66	6.21	5.55	11.93	4.58	4.45	5.43
15	5.20	6.71	12.33	11.00	11.96	9.01	6.22	5.35	9.93	4.57	4.48	5.11
16	5.12	6.38	12.27	10.73	---	8.44	6.12	5.22	7.56	4.55	4.49	4.95
17	5.25	6.12	12.35	11.24	---	8.04	6.00	5.13	6.54	4.53	4.53	5.18
18	5.11	5.91	12.35	11.56	---	7.71	5.90	5.08	6.10	4.52	4.81	6.04
19	4.95	5.76	12.31	11.80	---	7.41	5.78	5.02	5.81	4.51	5.00	6.98
20	4.83	5.65	12.25	12.02	---	7.16	5.66	4.97	5.60	4.52	5.23	7.04
21	4.76	5.64	11.70	12.16	---	7.31	5.57	4.93	5.44	4.55	4.93	6.38
22	4.70	6.19	10.56	12.30	---	8.27	5.48	4.88	5.31	4.59	4.71	5.70
23	4.74	8.80	9.20	12.46	---	8.66	5.41	4.83	5.21	4.60	4.60	5.52
24	7.04	9.95	8.35	12.97	9.89	9.77	5.34	4.79	5.12	4.57	4.52	5.43
25	9.52	9.87	7.88	13.54	9.54	10.56	5.29	4.76	5.05	4.54	4.46	5.19
26	9.92	9.09	7.56	13.94	9.17	10.77	5.23	4.73	4.98	4.51	4.42	5.02
27	8.38	8.47	7.31	14.70	8.96	11.03	5.18	4.71	4.92	4.77	4.40	4.87
28	6.94	8.16	7.11	14.54	8.75	11.22	5.14	4.69	4.87	4.70	4.43	4.76
29	6.08	8.50	7.07	13.91	---	11.20	5.09	4.68	4.82	4.60	4.90	4.69
30	5.66	12.20	7.56	13.49	---	10.72	5.06	4.66	4.83	4.70	5.15	4.63
31	5.40	---	8.33	13.24	---	9.67	---	4.65	---	4.76	5.17	---
MEAN	5.55	8.13	10.41	11.58	---	9.04	6.09	5.18	6.91	4.65	4.65	5.53
MAX	9.92	12.20	12.78	14.70	13.84	11.22	8.54	6.71	12.93	4.84	5.23	7.04
MIN	4.56	5.64	7.07	8.14	8.75	7.16	5.06	4.65	4.82	4.51	4.39	4.63

08013500 CALCASIEU RIVER NEAR OBERLIN, LA

LOCATION.--Lat 30°38'25", long 92°48'50", in NW¼NE¼ sec.7, T.5 S., R.4 W., Allen Parish, 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) National Geodetic Vertical Datum of 1929. Prior to February 1925 at datum about 2.5 ft (0.76 m) higher. September 1938 to Aug. 7, 1939, nonrecording gage at same site and present datum.

REMARKS.--Records good. Paper mill at Elizabeth pumps about 11 ft³/s (0.3 m³/s) of water 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.--42 years, (1922-24, 1938-78) 1,133 ft³/s (32.09 m³/s), 20.43 in/yr (519 mm/yr), 820,900 acre-ft/yr (1.01 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, 1.50 (0.457 m) Aug. 28, 1978.

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 discharges above base of 8,000 ft³/s (230 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)
Nov. 30	2330	*9610 272	*17.46 5.322	Jan. 26	2130	8420 238	17.09 5.209

Minimum discharge, 42 ft³/s (1.19 m³/s) Aug. 28, gage height, 1.50 ft or 0.457 m (may have been less during period of no gage-height record, Aug. 8-16).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	281	7650	376	5720	576	839	103	72	90	66	105
2	67	560	5540	383	5470	530	708	101	75	85	56	86
3	66	588	4560	428	5320	488	526	110	84	84	55	87
4	63	669	3190	502	4860	461	392	127	130	82	54	172
5	62	792	2280	558	4010	437	324	112	141	79	54	145
6	62	808	2000	576	3740	414	284	103	125	77	56	129
7	59	712	1960	550	4290	396	262	100	963	83	55	112
8	63	586	1990	522	4320	380	240	99	1850	61	52	92
9	87	464	1940	580	3730	369	226	100	1480	65	50	87
10	128	599	1790	498	3100	372	211	103	621	70	47	95
11	342	676	1410	504	2530	389	201	106	450	70	45	159
12	558	628	916	667	2030	419	193	130	643	64	44	190
13	242	568	741	996	2030	479	187	144	779	56	48	133
14	170	479	1670	1210	2190	546	179	136	1020	62	60	104
15	134	381	2880	1300	2030	588	172	126	1450	71	52	97
16	112	320	3380	1290	1610	580	170	114	1650	61	48	102
17	101	288	3080	1580	1350	506	169	143	1340	54	46	96
18	91	300	2330	1780	1310	432	166	329	691	51	44	92
19	87	260	1890	1740	1480	376	160	172	356	46	44	102
20	85	232	1720	1690	1840	337	153	115	251	46	46	133
21	81	484	1650	1580	2230	313	146	100	198	53	53	157
22	76	1130	1590	1500	2310	308	139	92	171	55	62	165
23	81	996	1510	1530	2020	461	134	86	152	61	64	153
24	976	544	1290	2500	1550	554	129	82	139	64	56	128
25	3430	435	905	6260	1160	536	126	78	129	68	50	112
26	3380	630	610	8120	902	621	118	75	119	72	48	106
27	1800	696	461	7580	753	751	114	72	111	111	44	99
28	842	820	392	6040	643	745	109	70	106	74	50	92
29	648	2090	358	6320	---	748	107	68	100	62	132	87
30	462	7130	392	7180	---	782	105	70	95	58	180	81
31	324	---	392	6370	---	845	---	73	---	64	124	---
TOTAL	14748	25146	62467	72710	74528	15739	6989	3439	15491	2099	1885	3498
MEAN	476	838	2015	2345	2662	508	233	111	516	67.7	60.8	117
MAX	3430	7130	7650	8120	5720	845	839	329	1850	111	180	190
MIN	59	232	358	376	643	308	105	68	72	46	44	81
CFSM	.63	1.11	2.68	3.11	3.54	.67	.31	.15	.69	.09	.08	.16
IN.	.73	1.24	3.09	3.59	3.68	.78	.35	.17	.77	.10	.09	.17
AC-FT	29250	49880	123900	144200	147800	31220	13860	6820	30730	4160	3740	6940

CAL YR 1977	TOTAL	352088	MEAN	965	MAX	7650	MIN	54	CFSM	1.28	IN	17.39	AC-FT	698400
WTR YR 1978	TOTAL	298739	MEAN	818	MAX	8120	MIN	44	CFSM	1.09	IN	14.76	AC-FT	592500

CALCASIEU RIVER BASIN

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.76	3.27	16.80	4.10	15.74	5.07	6.16	2.07	1.76	2.03	1.78	2.16
2	1.74	4.73	15.59	4.14	15.53	4.84	5.65	2.05	1.79	1.98	1.67	1.97
3	1.73	4.87	14.45	4.39	15.38	4.63	4.82	2.14	1.88	1.97	1.66	1.97
4	1.71	5.22	12.35	4.79	14.86	4.48	4.10	2.29	2.32	1.95	1.65	2.73
5	1.68	5.73	10.43	5.07	13.67	4.35	3.70	2.16	2.42	1.92	1.65	2.49
6	1.68	5.79	9.72	5.16	13.26	4.22	3.45	2.07	2.27	1.90	1.67	2.34
7	1.66	5.41	9.62	5.03	14.07	4.12	3.31	2.04	6.02	1.96	1.66	2.19
8	1.69	4.86	9.70	4.89	14.12	4.03	3.17	2.03	9.31	1.72	---	1.99
9	1.94	4.25	9.57	5.18	13.25	3.97	3.07	2.04	8.27	1.77	---	1.92
10	2.30	4.92	9.15	4.77	12.17	3.99	2.96	2.07	5.37	1.82	---	1.99
11	3.70	5.26	8.06	4.80	11.04	4.08	2.89	2.10	4.51	1.82	---	2.57
12	4.82	5.05	6.57	5.57	9.81	4.25	2.83	2.32	5.47	1.75	---	2.81
13	3.50	4.77	5.81	6.77	9.81	4.58	2.79	2.44	6.02	1.67	---	2.33
14	2.65	4.32	8.76	7.45	10.20	4.92	2.73	2.37	6.83	1.73	---	2.05
15	2.36	3.83	11.73	7.73	9.80	5.13	2.68	2.28	8.18	1.83	---	1.97
16	2.17	3.51	12.66	7.69	8.64	5.09	2.66	2.17	8.74	1.72	---	2.01
17	2.07	3.31	12.15	8.54	7.87	4.72	2.65	2.40	7.83	1.64	1.55	1.95
18	1.98	3.39	10.54	9.12	7.75	4.32	2.63	3.73	5.67	1.61	1.53	1.90
19	1.94	3.14	9.44	9.00	8.26	4.01	2.58	2.68	3.99	1.55	1.52	1.99
20	1.92	2.95	8.93	8.85	9.29	3.78	2.52	2.18	3.33	1.55	1.55	2.27
21	1.88	4.27	8.73	8.53	10.29	3.63	2.46	2.04	2.96	1.63	1.63	2.44
22	1.84	6.89	8.58	8.31	10.49	3.60	2.40	1.96	2.76	1.66	1.73	2.54
23	1.88	6.46	8.34	8.41	9.77	4.48	2.36	1.90	2.60	1.72	1.75	2.43
24	6.12	4.65	7.70	10.78	8.45	4.96	2.31	1.86	2.49	1.75	1.67	2.20
25	12.65	4.10	6.47	15.86	7.23	4.87	2.27	1.82	2.40	1.80	1.60	2.06
26	12.65	5.06	5.32	16.99	6.39	5.28	2.21	1.79	2.31	1.84	1.57	1.99
27	8.95	5.34	4.57	16.77	5.83	5.82	2.17	1.76	2.24	2.24	1.53	1.92
28	5.91	5.80	4.19	15.97	5.38	5.80	2.13	1.73	2.19	1.87	1.60	1.85
29	5.14	9.66	4.00	16.14	---	5.81	2.11	1.72	2.13	1.73	2.42	1.80
30	4.24	16.32	4.19	16.59	---	5.94	2.09	1.75	2.08	1.69	2.83	1.74
31	3.54	---	4.19	16.17	---	6.18	---	1.77	---	1.76	2.34	---
MEAN	3.54	5.24	8.98	8.82	10.66	4.68	3.00	2.12	4.20	1.79	---	2.49
MAX	12.65	16.32	16.80	16.99	15.74	6.18	6.16	3.73	9.31	2.24	2.83	2.81
MIN	1.66	2.95	4.00	4.10	5.38	3.60	2.09	1.72	1.76	1.55	1.52	1.74

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.

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)
OCT												
11...	1345	113	6.7	19.5	100	30	--	--	K2000	7300	13	0
NOV												
15...	1230	68	6.6	14.5	100	25	9.3	2.9	K10	3600	15	7
DEC												
14...	1310	52	5.7	13.5	90	40	8.3	4.4	8800	12000	14	4
JAN												
24...	1615	43	6.2	9.0	80	40	10.8	2.7	1000	10000	9	4
FEB												
13...	1300	66	6.1	9.0	60	15	10.4	2.1	280	K2600	10	3
MAR												
14...	1400	72	5.8	15.5	60	30	9.1	--	K250	K190	10	0
APR												
16...	1130	139	7.0	23.0	50	15	7.9	2.3	K110	K200	17	0
MAY												
08...	1700	163	6.9	24.5	40	15	7.9	2.5	K70	600	21	0
JUN												
12...	1730	84	6.2	26.0	80	25	6.4	49	820	K740	13	0
JUL												
10...	1115	137	6.5	29.5	60	10	--	--	--	--	21	0
AUG												
09...	1700	243	7.7	31.5	40	8	7.2	1.9	--	K28000	21	0
SEP												
05...	1700	125	6.7	28.0	80	10	7.5	2.4	120	77	19	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS C03)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT											
11...	4.1	.7	17	69	2.0	2.5	34	0	28	20	4.5
NOV											
15...	3.9	1.3	8.4	52	.9	1.6	10	0	8	9.2	5.4
DEC											
14...	3.9	1.0	6.1	46	.7	1.3	12	0	10	8.3	8.3
JAN											
24...	2.6	.6	3.8	45	.6	.9	6	0	5	7.4	3.9
FEB											
13...	2.8	.7	6.1	55	.8	.8	8	0	7	10	4.2
MAR											
14...	3.2	.5	8.6	62	1.2	1.0	14	0	11	8.3	6.1
APR											
18...	5.0	1.1	19	68	2.0	1.8	42	0	34	19	7.0
MAY											
08...	7.4	.7	26	70	2.4	2.2	47	0	39	25	7.7
JUN											
12...	4.1	.6	11	62	1.3	1.4	23	0	19	13	3.4
JUL											
10...	6.1	1.4	21	66	2.0	1.9	40	0	33	20	7.3
AUG											
09...	6.0	1.5	41	79	3.9	2.5	75	0	62	38	14
SEP											
05...	5.5	1.3	23	69	2.3	2.3	55	0	45	18	6.5

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

CALCASIEU RIVER BASIN

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	.1	9.5	78	75	.11	.16	.58	.74	3.3	.14	11
NOV 15...	.0	13	75	48	.10	.09	1.5	1.6	7.0	.04	--
DEC 14...	.0	6.9	52	42	.07	.12	.80	.92	4.1	.06	--
JAN 24...	.0	6.0	41	28	.06	.12	.40	.52	2.3	.05	13
FEB 13...	.0	8.3	45	37	.06	.15	1.3	1.5	6.4	.05	--
MAR 14...	.0	12	59	47	.08	.11	.91	1.0	4.5	.15	--
APR 18...	.0	21	104	95	.14	.19	.62	.81	3.6	.07	8.0
MAY 08...	--	22	117	121	.16	.30	.79	1.1	4.8	.21	--
JUN 12...	.0	7.5	63	52	.09	.18	.55	.73	3.2	.05	--
JUL 10...	.4	22	105	100	.14	.09	.60	.69	3.1	.04	7.2
AUG 09...	.1	27	180	167	.24	.06	.46	.52	2.3	.06	--
SEP 05...	.0	16	98	100	.13	.13	.74	.87	3.9	.07	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CG)	CADMIUM FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, FM BOT- TOM MA- TERIAL (UG/G AS PB)
OCT 11...	1	1	0	<1	3	0	8	1	120	110	1	<10
JAN 24...	1	--	0	--	--	0	11	--	120	--	0	--
APR 18...	1	--	0	--	--	0	3	--	350	--	3	--
JUL 10...	2	--	1	--	--	0	6	--	260	--	8	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, FM BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)
OCT 11...	90	83	.0	.0	40	2	.00	7	.0	0	.00	.00
JAN 24...	60	--	.0	--	30	--	--	--	--	--	--	--
APR 18...	60	--	.0	--	10	--	--	--	.0	--	.00	.00
JUL 10...	80	--	.1	--	10	--	--	--	--	--	--	--

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL (UG/KG)	D1- AZINON, TOTAL (UG/L)	D1- AZINON, TOTAL (UG/KG)	D1- ELDRIN, TOTAL (UG/L)
OCT 11...	.0	.0	0	.00	.0	.00	.0	.00	.0	.00	.0	.00
JAN 24...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	.0	--	.00	--	.00	--	.00	--	.00	--	.00
JUL 10...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRI- N, TOTAL (UG/L)	ENDRI- N, TOTAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/KG)
OCT 11...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00
JAN 24...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	--	.00	--	.00	--	.00	--	.00	--	.00	.00
JUL 10...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/KG)
OCT 11...	.0	.00	.0	.00	.00	.0	.00	.0	.00	.00	.00	.0
JAN 24...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	.00	--	--	.00	--	.00	--	.00	.00	.00	--
JUL 10...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/KG)
OCT 11...	0	0	.00	.0	.53	.05	.00					
APR 18...	0	--	.00	--	.01	.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. 14, 1977...	----	23.0	17.0	--	MAY 17.....	----	29.0	25.5	7.2
NOV. 16.....	----	26.0	12.0	--	JUNE 27.....	----	31.5	--	--
DEC. 30.....	----	11.0	9.0	10.8	AUG. 1.....	----	30.5	28.5	8.4
JAN. 26, 1978...	----	4.0	7.0	--	SEP. 26.....	----	25.5	24.0	7.6
MAR. 28.....	----	23.0	--	--	SEP. 28.....	----	24.0	21.5	8.8

08014500 WHISKY CHITTO CREEK NEAR OBERLIN, LA

LOCATION.--Lat 30°41'55", long 92°53'35", in NE¼NE¼ sec.20, T.4 S., R.5 W., Allen Parish, 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) National Geodetic Vertical Datum of 1929. 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--39 years, 801 ft³/s (22.68 m³/s), 21.33 in/yr (542 mm/yr), 580,300 acre-ft/yr (716 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)
Dec. 1	0330	*10500 297	*19.21 5.855	Jan. 27	0530	8720 247	18.22 5.553
Dec. 17	0630	5780 164	15.55 4.740	Feb. 2	2030	3480 98.6	12.46 3.798

Minimum discharge, 126 ft³/s (3.57 m³/s) Aug. 28, gage height, 2.59 ft (0.789 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	259	10300	631	2200	464	410	260	206	167	185	313
2	175	567	9130	538	3310	460	388	320	239	164	169	220
3	179	1320	7210	468	3350	460	370	500	257	162	161	183
4	183	1460	5360	426	3140	443	358	700	366	160	155	416
5	254	1070	2910	398	2790	433	340	540	376	159	150	420
6	243	574	1240	380	1710	428	330	450	330	210	147	374
7	205	433	873	371	1040	419	320	390	555	169	145	269
8	190	381	706	386	877	426	310	350	657	169	143	212
9	230	736	605	430	789	513	320	400	614	175	142	187
10	268	1000	545	892	733	598	380	350	1180	169	141	190
11	462	939	519	1140	678	504	660	310	1380	190	140	202
12	520	661	492	853	653	454	1000	280	993	192	140	242
13	492	444	601	621	1210	429	900	260	533	177	141	291
14	438	371	2810	739	1560	415	680	250	413	176	153	261
15	322	331	4160	684	1550	402	580	230	349	172	144	222
16	261	293	5250	573	1350	393	500	220	301	163	145	209
17	232	307	5580	1010	880	381	460	210	270	156	161	320
18	215	361	4180	1530	731	364	420	220	250	153	161	276
19	203	307	1860	1620	736	349	390	197	235	159	148	223
20	194	282	961	1530	767	339	370	193	224	161	140	202
21	188	298	746	1190	675	337	350	192	216	155	136	195
22	185	374	643	973	604	353	330	188	208	159	134	203
23	193	405	572	819	560	647	310	184	202	158	131	186
24	362	490	524	2380	527	784	290	181	195	162	130	172
25	860	427	495	5930	509	775	280	179	190	168	130	164
26	1110	387	473	7920	494	1150	270	176	184	219	130	161
27	778	375	450	8530	479	1040	260	173	180	238	130	158
28	477	836	426	7330	475	664	250	172	176	200	142	155
29	361	1690	416	5400	---	540	240	171	173	196	179	153
30	304	6480	421	2700	---	477	240	169	170	226	184	151
31	272	---	530	1730	---	438	---	176	---	210	271	---
TOTAL	10530	23858	70988	60122	34377	15879	12306	8591	11822	5494	4708	6930
MEAN	340	795	2290	1939	1228	512	410	277	394	177	152	231
MAX	1110	6480	10300	8530	3350	1150	1000	700	1380	238	271	420
MIN	174	259	416	371	475	337	240	169	170	153	130	151
CFSM	.67	1.56	4.49	3.80	2.41	1.00	.80	.54	.77	.35	.30	.45
IN.	.77	1.74	5.18	4.39	2.51	1.16	.90	.63	.86	.40	.34	.51
AC-FT	20890	47320	140800	119300	68190	31500	24410	17040	23450	10900	9340	13750
CAL YR 1977	TOTAL	295607	MEAN 810	MAX 10300	MIN 154	CFSM 1.59	IN 21.56	AC-FT 586300				
WTR YR 1978	TOTAL	265605	MEAN 728	MAX 10300	MIN 130	CFSM 1.43	IN 19.37	AC-FT 526800				

CALCASIEU RIVER BASIN

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08014500 WHISKY CHITTO CREEK NEAR OBERLIN, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.83	3.25	19.13	5.03	9.75	4.37	4.01	---	3.13	2.92	2.95	3.55
2	2.83	4.53	18.41	4.68	12.16	4.34	3.93	---	3.30	2.91	2.87	3.13
3	2.85	7.25	16.96	4.41	12.24	4.33	3.85	---	3.37	2.89	2.82	2.95
4	2.87	7.68	15.05	4.25	11.88	4.24	3.80	---	3.84	2.88	2.78	3.96
5	3.22	6.46	11.18	4.13	11.15	4.20	---	---	3.88	2.88	2.75	3.98
6	3.17	4.66	7.00	4.06	8.50	4.16	---	---	3.69	3.15	2.73	3.79
7	2.99	4.08	5.86	4.02	6.57	4.12	---	---	4.58	2.92	2.71	3.36
8	2.91	3.86	5.31	4.09	6.04	4.14	---	---	5.00	2.93	2.70	3.08
9	3.11	5.25	4.93	4.26	5.75	4.47	---	---	5.57	2.96	2.70	2.95
10	3.29	6.24	4.70	5.91	5.56	4.81	---	---	6.81	2.92	2.69	2.96
11	4.13	6.03	4.61	6.72	5.36	4.44	---	---	7.46	3.03	2.68	3.02
12	4.38	5.01	4.50	5.79	5.26	4.24	---	---	6.17	3.04	2.68	3.22
13	4.26	4.12	4.88	5.00	7.08	4.14	---	---	4.50	2.96	2.69	3.45
14	4.03	3.82	11.06	5.42	8.11	4.08	---	---	4.02	2.95	2.76	3.30
15	3.53	3.66	13.52	5.23	8.08	4.03	---	---	3.77	2.92	2.70	3.11
16	3.26	3.54	14.93	4.81	7.49	3.99	---	---	3.58	2.87	2.71	3.05
17	3.12	3.56	15.32	6.28	6.04	3.95	---	---	3.44	2.82	2.82	3.55
18	3.04	3.78	13.50	7.87	5.53	3.88	---	3.20	3.35	2.81	2.82	3.36
19	2.98	3.56	8.77	8.14	5.54	3.82	---	3.08	3.27	2.84	2.73	3.10
20	2.93	3.44	6.14	7.90	5.64	3.78	---	3.06	3.22	2.85	2.68	3.00
21	2.90	3.51	5.44	6.86	5.30	3.77	---	3.06	3.18	2.81	2.65	2.97
22	2.89	3.83	5.08	6.18	5.00	3.84	---	3.04	3.14	2.84	2.64	3.00
23	2.92	3.97	4.81	5.69	4.81	4.99	---	3.02	3.11	2.82	2.62	2.91
24	3.69	4.31	4.62	9.72	4.67	5.51	---	3.00	3.08	2.84	2.61	2.84
25	5.72	4.06	4.51	15.67	4.59	5.47	---	2.99	3.05	2.88	2.61	2.79
26	6.59	3.89	4.43	17.56	4.52	6.72	---	2.98	3.02	3.15	2.61	2.76
27	5.43	3.84	4.35	18.06	4.45	6.35	---	2.96	3.00	3.23	2.61	2.74
28	4.19	5.63	4.25	17.07	4.42	5.04	---	2.95	2.97	3.04	2.69	2.72
29	3.70	8.23	4.20	15.08	---	4.53	---	2.95	2.96	3.02	2.92	2.71
30	3.45	15.96	4.23	10.83	---	4.28	---	2.94	2.94	3.17	2.95	2.69
31	3.31	---	4.65	8.56	---	4.13	---	2.97	---	3.08	3.36	---
MEAN	3.57	5.03	8.27	7.72	6.84	4.46	---	---	3.88	2.95	2.75	3.13
MAX	6.59	15.96	19.13	18.06	12.24	6.72	---	---	7.46	3.23	3.36	3.98
MIN	2.83	3.25	4.20	4.02	4.42	3.77	---	2.94	2.94	2.81	2.61	2.69

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 115.75 ft (34.671 m) National Geodetic Vertical Datum of 1929.

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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--22 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, 1.87 ft (0.570 m) Aug. 23, 1978.

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)
Nov. 30	1645	3240 91.8	17.17 5.253	Jan. 24	unknown	*6600 187	19.20 5.852
Dec. 14	1645	3940 112	17.67 5.386	June 8	1700	1500 42.5	15.55 4.740
Jan. 19	2230	5370 152	18.55 5.654				

a Annual maximum from floodmark.

Minimum discharge, 12 ft³/s (0.34 m³/s) Aug. 13, 14, 21-23, 24, 25, 26, 27, 28; minimum gage height, 1.87 ft (0.570 m) Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	31	2180	96	700	82	57	25	39	22	21	47
2	17	136	1090	73	450	82	54	25	109	21	19	31
3	28	201	553	64	300	80	51	32	108	20	18	27
4	51	133	185	58	250	77	50	35	151	19	17	32
5	48	68	123	56	220	76	48	50	70	18	16	31
6	27	51	100	55	190	71	47	39	50	18	14	25
7	21	44	79	57	170	78	46	35	475	23	14	22
8	20	50	66	115	160	138	44	38	1280	21	14	20
9	52	190	61	175	158	163	43	50	981	23	14	20
10	95	194	65	97	150	109	42	43	290	24	14	20
11	264	166	63	200	140	85	50	41	76	25	13	21
12	138	70	58	540	136	79	62	32	63	20	13	28
13	121	51	208	463	345	76	68	28	63	19	13	31
14	63	43	2700	351	557	73	52	26	60	18	13	28
15	41	40	2350	288	449	71	45	24	46	18	18	27
16	34	39	898	205	179	67	40	22	39	29	31	38
17	30	68	317	157	139	61	38	24	35	29	21	35
18	28	53	157	291	164	57	37	29	33	27	17	28
19	26	43	118	2880	187	56	37	30	31	21	14	31
20	26	39	95	3590	152	56	35	28	29	19	13	30
21	25	45	82	1580	119	64	32	23	28	20	12	49
22	25	75	74	300	105	91	31	21	27	44	12	36
23	27	105	67	400	96	105	31	20	27	29	12	28
24	67	83	64	5000	92	150	30	20	26	47	13	24
25	116	61	64	4000	90	365	29	19	24	35	14	21
26	77	65	62	1500	87	348	27	19	23	37	13	19
27	51	78	57	600	84	142	26	18	22	32	12	18
28	39	219	54	350	81	84	25	17	21	37	18	17
29	34	513	60	220	---	72	25	18	21	45	183	18
30	31	2320	85	250	---	65	25	37	21	32	155	18
31	29	---	119	270	---	61	---	47	---	24	95	---
TOTAL	1667	5274	12254	24281	5950	3184	1227	915	4268	816	866	820
MEAN	53.8	176	395	783	213	103	40.9	29.5	142	26.3	27.9	27.3
MAX	264	2320	2700	5000	700	365	68	50	1280	47	183	49
MIN	16	31	54	55	81	56	25	17	21	18	12	17
CFSM	.45	1.47	3.29	6.53	1.78	.86	.34	.25	1.18	.22	.23	.23
IN.	.52	1.63	3.80	7.53	1.84	.99	.38	.28	1.32	.25	.27	.25
AC-FT	3310	10460	24310	48160	11800	6320	2430	1810	8470	1620	1720	1630

CAL YR 1977	TOTAL	62220	MEAN	170	MAX	2700	MIN	15	CFSM	1.42	IN	19.29	AC-FT	123400
WTR YR 1978	TOTAL	61522	MEAN	169	MAX	5000	MIN	12	CFSM	1.41	IN	19.07	AC-FT	122000

CALCASIEU RIVER BASIN

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08014800 BUNDICK CREEK NEAR DE RIDDER, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.06	2.33	16.17	3.84	---	3.46	3.02	2.33	2.66	2.14	2.11	2.66
2	2.08	4.29	13.93	3.45	---	3.48	2.96	2.33	3.92	2.13	2.08	2.28
3	2.35	5.25	9.34	3.28	---	3.43	2.91	2.49	3.88	2.10	2.05	2.19
4	2.86	4.27	5.07	3.17	---	3.39	2.87	2.58	4.53	2.08	2.02	2.30
5	2.79	3.14	4.26	3.11	---	3.35	2.84	2.88	3.25	2.05	1.99	2.29
6	2.31	2.79	3.91	3.10	---	3.27	2.83	2.67	2.88	2.05	1.96	2.13
7	2.17	2.63	3.55	3.15	---	3.39	2.80	2.58	8.25	2.17	1.94	2.05
8	2.14	2.75	3.32	4.07	4.53	4.36	2.78	2.65	14.46	2.14	1.94	2.01
9	2.87	5.10	3.23	4.95	4.50	4.73	2.76	2.87	13.28	2.18	1.95	2.00
10	3.68	5.18	3.29	3.85	4.39	3.92	2.74	2.75	6.22	2.21	1.94	2.02
11	6.05	4.76	3.25	5.19	4.25	3.53	2.88	2.70	3.35	2.22	1.93	2.04
12	4.36	3.17	3.16	9.23	4.18	3.41	3.11	2.51	3.07	2.11	1.92	2.21
13	4.09	2.78	4.99	8.37	6.94	3.36	3.22	2.41	3.09	2.07	1.91	2.29
14	3.04	2.62	16.37	7.11	9.41	3.30	2.93	2.36	3.02	2.04	1.91	2.20
15	2.58	2.54	16.30	6.35	8.20	3.26	2.78	2.31	2.74	2.05	2.15	2.19
16	2.41	2.53	12.69	5.33	4.94	3.18	2.69	2.25	2.57	2.33	2.39	2.46
17	2.31	3.13	6.67	4.71	4.39	3.07	2.64	2.30	2.48	2.34	2.14	2.39
18	2.26	2.82	4.72	6.34	4.75	2.99	2.63	2.38	2.43	2.27	2.02	2.22
19	2.22	2.62	4.18	15.98	5.08	2.95	2.61	2.45	2.37	2.11	1.96	2.29
20	2.20	2.53	3.83	17.40	4.57	2.95	2.56	2.40	2.34	2.07	1.92	2.26
21	2.19	2.65	3.61	15.38	4.09	3.12	2.51	2.28	2.30	2.10	1.90	2.71
22	2.18	3.29	3.47	---	3.87	3.63	2.48	2.23	2.27	2.67	1.88	2.41
23	2.24	3.83	3.34	---	3.72	3.87	2.47	2.21	2.27	2.33	1.88	2.21
24	3.11	3.43	3.28	---	3.66	4.52	2.45	2.19	2.24	2.74	1.91	2.12
25	4.02	2.99	3.28	---	3.61	7.27	2.43	2.18	2.21	2.48	1.95	2.04
26	3.32	3.07	3.23	---	3.57	7.08	2.39	2.17	2.18	2.53	1.92	1.99
27	2.78	3.34	3.15	---	3.51	4.40	2.36	2.14	2.15	2.41	1.89	1.97
28	2.53	5.42	3.08	---	3.46	3.53	2.34	2.12	2.13	2.52	2.05	1.95
29	2.40	8.87	3.19	---	---	3.29	2.33	2.15	2.12	2.70	4.98	1.95
30	2.34	16.12	3.66	---	---	3.17	2.33	2.61	2.13	2.40	4.59	1.96
31	2.27	---	4.19	---	---	3.09	---	2.83	---	2.20	3.63	---
MEAN	2.78	4.01	5.80	---	---	3.73	2.69	2.43	3.76	2.26	2.22	2.19
MAX	6.05	16.12	16.37	---	---	7.27	3.22	2.88	14.46	2.74	4.98	2.71
MIN	2.06	2.33	3.08	3.10	3.46	2.95	2.33	2.12	2.12	2.04	1.88	1.95

CALCASIEU RIVER BASIN

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) National Geodetic Vertical Datum of 1929. 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--38 years (1922-24, 1938-57, 1961-78), 2,535 ft³/s (71.79 m³/s), 1,837,000 acre-ft/yr (2.27 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, 1.92 ft (0.585 m) Aug. 12, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,900 ft³/s (677 m³/s) Dec. 2, gage height, 18.75 ft (5.715 m); minimum, 241 ft³/s (6.83 m³/s) May 30; minimum gage height, 1.92 ft (0.585 m) Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	721	19800	1330	10900	1460	1520	442	338	349	387	732
2	308	1070	23800	1350	10900	1380	1450	432	477	339	368	642
3	308	1770	20000	1300	11000	1330	1270	470	684	333	346	516
4	312	2080	15600	1300	10400	1290	1080	491	673	326	339	530
5	316	2170	11200	1330	9660	1230	942	456	929	323	333	754
6	356	1850	6790	1350	8500	1180	869	432	1110	333	323	684
7	341	1470	4350	1330	6180	1140	813	446	2480	362	298	596
8	321	1250	3640	1320	5790	1150	778	449	4170	326	286	488
9	377	1300	3280	1410	5570	1150	747	442	3990	320	280	424
10	432	1630	3030	1510	5120	1230	722	491	3450	314	277	460
11	952	1760	2680	1780	4500	1240	725	526	3210	314	277	600
12	1460	1680	2160	2100	3850	1190	740	491	3900	352	277	600
13	1260	1370	1950	2080	3830	1200	732	491	2980	342	304	586
14	961	1150	3930	2180	4580	1240	743	452	2140	333	459	540
15	737	977	6190	2350	4540	1280	726	410	2000	349	381	477
16	579	859	7660	2350	4210	1270	701	374	2160	336	336	452
17	484	786	9260	2930	3600	1240	676	362	2140	316	314	449
18	428	782	10100	3730	2940	1120	659	519	1730	298	320	519
19	392	776	9060	4050	2660	1030	642	554	1120	295	306	456
20	372	720	5290	4210	2780	970	603	390	782	280	310	449
21	355	814	3550	4000	3050	939	578	346	642	323	336	530
22	339	1400	3060	3490	3240	904	550	323	558	342	301	530
23	334	1710	2700	3110	3230	1020	547	310	505	371	301	502
24	482	1430	2440	4430	2930	1490	533	295	466	378	292	452
25	1780	1130	2040	9440	2390	1690	505	274	435	394	277	400
26	3480	1100	1640	16100	1990	1870	484	259	421	394	268	371
27	3730	1270	1400	20200	1750	2170	463	253	407	466	265	352
28	2530	1580	1270	20700	1590	2070	452	259	387	488	306	339
29	1380	2940	1200	17200	---	1770	446	250	371	424	1020	326
30	1060	9080	1190	14400	---	1620	446	250	362	404	869	310
31	841	---	1240	12300	---	1550	---	272	---	418	729	---
TOTAL	27321	48625	191500	166660	141680	41413	22142	12211	45217	10942	11485	15066
MEAN	881	1621	6177	5376	5060	1336	738	394	1507	353	370	502
MAX	3730	9080	23800	20700	11000	2170	1520	554	4170	488	1020	754
MIN	308	720	1190	1300	1590	904	446	250	338	280	265	310
AC-FT	54190	96450	379800	330600	281000	82140	43920	24220	89690	21700	22780	29880
CAL YR 1977 TOTAL	819767			2246	23800	282		1626000				
WTR YR 1978 TOTAL	734262			2012	23800	250		1456000				

CALCASIEU RIVER BASIN

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08015500 CALCASIEU RIVER NEAR KINDER, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.45	3.35	17.79	5.12	15.82	5.62	5.77	2.77	2.46	2.34	2.40	3.37
2	2.43	4.38	18.65	5.19	15.83	5.41	5.59	2.74	2.87	2.31	2.33	3.10
3	2.43	6.29	18.00	5.05	15.84	5.25	5.09	2.85	3.46	2.29	2.26	2.73
4	2.44	7.09	17.09	5.04	15.64	5.14	4.55	2.91	3.99	2.27	2.23	2.77
5	2.46	7.31	16.09	5.13	15.36	4.99	4.18	2.81	4.14	2.26	2.21	3.43
6	2.58	6.49	14.61	5.18	14.81	4.85	3.98	2.74	4.62	2.29	2.17	3.22
7	2.54	5.52	12.13	5.14	13.74	4.75	3.82	2.78	7.90	2.38	2.09	2.96
8	2.47	---	10.27	5.11	13.00	4.76	3.72	2.79	11.09	2.27	2.04	2.64
9	2.65	---	9.65	5.36	12.78	4.76	3.64	2.77	10.82	2.25	2.02	2.46
10	2.82	5.92	9.16	5.61	12.32	4.99	3.57	2.91	9.94	2.23	2.01	2.56
11	4.33	6.28	8.46	6.33	11.54	5.01	3.58	3.01	9.49	2.23	2.00	2.98
12	5.70	6.07	7.27	7.12	10.61	4.86	3.62	2.91	10.70	2.35	2.00	2.97
13	5.19	5.25	6.73	7.09	10.57	4.90	3.60	2.91	9.52	2.32	2.09	2.93
14	4.36	4.62	10.15	7.33	11.65	5.02	3.63	2.80	7.22	2.29	2.57	2.80
15	3.72	4.12	12.93	7.74	11.59	5.11	3.58	2.68	6.88	2.34	2.32	2.61
16	3.27	3.77	14.38	7.74	11.15	5.10	3.51	2.57	7.27	2.30	2.19	2.54
17	2.98	3.55	15.17	8.95	10.19	5.01	3.44	2.53	7.24	2.24	2.12	2.53
18	2.81	3.54	15.56	10.42	8.97	4.69	3.39	2.99	6.18	2.18	2.14	2.73
19	2.70	3.52	15.08	10.93	8.45	4.42	3.34	3.08	4.55	2.17	2.10	2.55
20	2.63	3.35	13.22	11.16	8.68	4.26	3.23	2.62	3.59	2.12	2.11	2.53
21	2.58	3.63	10.65	10.85	9.21	4.17	3.15	2.48	3.19	2.25	2.19	2.77
22	2.53	5.32	9.21	10.02	9.57	4.07	3.08	2.41	2.94	2.31	2.08	2.77
23	2.51	6.15	8.48	9.33	9.55	4.40	3.07	2.37	2.80	2.39	2.08	2.69
24	2.96	5.41	7.94	10.70	8.96	5.68	3.03	2.32	2.69	2.41	2.05	2.54
25	6.46	4.59	6.97	14.80	7.85	6.18	2.95	2.25	2.60	2.45	2.00	2.39
26	9.54	4.48	5.97	17.20	6.92	6.61	2.89	2.20	2.56	2.45	1.97	2.30
27	10.41	4.96	5.31	18.03	6.31	7.34	2.83	2.18	2.52	2.65	1.96	2.24
28	8.05	5.78	4.96	18.13	5.92	7.10	2.80	2.20	2.46	2.71	2.10	2.20
29	5.27	8.64	4.78	17.45	---	6.37	2.78	2.17	2.41	2.52	4.22	2.16
30	4.35	14.43	4.75	16.79	---	6.00	2.77	2.17	2.38	2.46	3.77	2.11
31	3.71	---	4.88	16.24	---	5.85	---	2.24	---	2.49	3.36	---
MEAN	3.91	---	10.85	9.56	11.17	5.25	3.61	2.62	5.35	2.34	2.30	2.69
MAX	10.41	14.43	18.65	18.13	15.84	7.34	5.77	3.08	11.09	2.71	4.22	3.43
MIN	2.43	3.35	4.75	5.04	5.92	4.07	2.77	2.17	2.38	2.12	1.96	2.11

CALCASIEU RIVER BASIN

08016400 BECKWITH CREEK NEAR DE QUINCY, LA

LOCATION.--Lat 30°28'15", long 93°21'35", in SE&NW¼ sec.11, T.7 S., R.10 W., Beauregard Parish, Hydrologic Unit 08080205, near right bank on downstream side of bridge on State Highway 12, 300 ft (91 m) upstream from New Orleans, Texas and Mexico Railway bridge 2.3 mi (3.7 km) downstream from Hams Creek, and 4.4 mi (7.1 km) northeast of De Quincy.

DRAINAGE AREA.--148 mi² (383 km²).

PERIOD OF RECORD.--August 1945 to current year.

REVISED RECORDS.--WSP 1118: 1946, 1947 (M). WSP 1512: 1945.

GAGE.--Water-stage recorder. Datum of gage is 25.29 ft (7.708 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 28, 1950, nonrecording gage and Oct. 29, 1950, to Jan. 3, 1961, water-stage recorder 1,000 ft (305 m) upstream at same datum.

REMARKS.--Records good. Records of water temperatures for water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--33 years, 196 ft³/s (5.551 m³/s), 17.98 in/yr (457 mm/yr), 142,000 acre-ft/yr (175 hm³/s/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s (391 m³/s) May 21, 1955, gage height, 24.45 ft (7.452 m); minimum, 0.1 ft³/s (0.003 m³/s) Sept. 27 to Oct. 30, 1956; minimum gage height, 0.87 ft (0.265 m) Sept. 26, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft³/s (45 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)
Oct. 11	1945	1700 48.1	15.80 4.816	Dec. 14	1045	1630 46.2	15.38 4.688
Nov. 30	0900	*4680 133	*20.23 6.166	Jan. 24	1945	4500 127	20.10 6.126

Minimum discharge, 2.7 cfs (0.076 m³/s) May 16, 21, 22; minimum gage height, 1.31 ft (0.399 m) July 10, 11, 12, 20, 21, Aug. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	3.3	11	2440	57	833	35	17	4.3	5.0	4.3	6.9	39		
2	31	218	1690	49	814	34	16	4.2	5.9	4.3	29	25		
3	42	126	1370	48	633	32	14	4.7	7.4	4.3	11	24		
4	13	59	1100	44	606	30	13	4.7	5.9	4.3	6.0	107		
5	6.7	31	675	37	673	28	12	4.8	2.7	4.3	4.8	193		
6	4.6	21	175	34	568	27	12	4.6	4.0	4.3	4.3	60		
7	4.0	16	83	32	223	27	12	6.0	176	4.2	4.2	24		
8	3.7	20	59	60	215	30	11	6.0	9.0	4.2	6.6	14		
9	3.2	97	47	85	205	29	11	5.8	5.7	4.2	19	9.0		
10	3.4	110	40	56	199	30	10	5.5	15.0	4.1	8.0	7.3		
11	1280	58	35	42	160	30	10	5.0	241	4.0	4.9	7.1		
12	849	48	32	244	141	28	11	4.5	9.0	4.1	4.0	6.7		
13	50	34	316	194	314	26	11	4.4	4.0	4.2	35	6.0		
14	26	22	1520	94	257	24	14	3.9	27	4.2	34	5.7		
15	18	16	1020	61	245	23	14	3.0	2.0	17	21	6.9		
16	14	16	793	213	253	22	13	3.1	1.0	25	16	29		
17	13	16	1020	934	183	20	11	4.9	14	18	7.8	9.2		
18	11	15	1050	515	125	19	10	3.7	1.0	6.0	5.4	11		
19	9.4	13	610	499	108	18	9.5	3.0	7.8	4.2	4.9	7.6		
20	8.3	11	144	514	105	17	8.2	2.9	6.5	3.9	4.3	6.0		
21	7.4	57	77	318	93	16	7.3	2.7	5.8	35	3.9	5.7		
22	6.7	277	55	245	70	16	7.0	7.8	5.8	20	3.6	5.4		
23	6.5	104	45	275	55	16	6.7	8.1	5.5	163	3.5	18		
24	30	48	39	2550	46	78	6.2	5.8	5.1	176	3.3	20		
25	100	33	36	3340	41	192	5.7	4.5	4.8	36	3.2	10		
26	50	28	33	2650	38	83	5.2	3.5	4.7	18	3.2	6.9		
27	27	27	30	2580	37	48	5.0	3.2	4.6	15	3.1	5.7		
28	15	40	29	1900	36	34	4.8	3.2	4.5	8.6	58	5.2		
29	12	1360	36	1360	---	26	4.7	3.1	4.5	8.0	626	5.1		
30	10	4020	56	889	---	21	4.5	3.2	4.5	11	230	4.9		
31	9.4	---	70	618	---	18	---	3.4	---	9.2	77	---		
TOTAL	2667.6	6952	14725	20537	7276	1077	296.8	137.5	1236.0	632.9	1251.9	684.4		
MEAN	86.1	232	475	662	260	34.7	9.89	4.44	41.2	20.4	40.4	22.8		
MAX	1280	4020	2440	3340	833	192	17	8.1	241	176	626	193		
MIN	3.2	11	29	32	36	16	4.5	2.7	4.5	3.9	3.1	4.9		
CFSM	.58	1.57	3.21	4.47	1.76	.23	.07	.03	.28	.14	.27	.15		
IN.	.67	1.75	3.70	5.16	1.83	.27	.07	.03	.31	.16	.31	.17		
AC-FT	5290	13790	29210	40740	14430	2140	589	273	2450	1260	2480	1360		
CAL YR 1977	TOTAL	63546.8	MEAN	174	MAX	4020	MIN	1.8	CFSM	1.18	IN	15.97	AC-FT	126000
WTR YR 1978	TOTAL	57474.1	MEAN	157	MAX	4020	MIN	2.7	CFSM	1.06	IN	14.45	AC-FT	114000

CALCASIEU RIVER BASIN

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08016400 BECKWITH CREEK NEAR DE QUINCY, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.46	---	17.91	2.96	10.41	2.51	2.02	1.47	1.44	1.33	1.53	2.54
2	2.20	5.06	15.62	2.81	10.31	2.47	1.97	1.46	1.49	1.33	2.23	2.20
3	2.72	4.00	13.87	2.78	8.96	2.43	1.94	1.49	2.99	1.33	1.73	2.14
4	1.95	3.00	12.26	2.70	8.74	2.37	1.91	1.48	2.86	1.33	1.49	3.49
5	1.69	2.40	9.21	2.56	9.29	2.33	1.88	1.49	2.24	1.33	1.41	4.73
6	1.56	2.15	4.57	2.47	8.40	2.30	1.88	1.48	2.54	1.33	1.38	2.96
7	1.52	1.99	3.40	2.43	5.13	2.30	1.87	1.57	4.53	1.32	1.37	2.20
8	1.49	2.09	3.00	2.99	5.05	2.32	1.84	1.57	3.48	1.32	1.47	1.86
9	1.46	3.51	2.78	3.43	4.94	2.36	1.82	1.55	2.86	1.32	2.00	1.68
10	1.47	3.78	2.62	2.94	4.88	2.37	1.80	1.54	4.29	1.31	1.60	1.59
11	12.69	2.97	2.50	2.66	4.42	2.39	1.80	1.50	5.21	1.31	1.43	1.58
12	10.02	2.78	2.42	5.29	4.18	2.34	1.82	1.47	3.39	1.31	1.38	1.56
13	2.79	2.47	5.24	4.81	6.08	2.27	1.82	1.47	2.53	1.33	2.03	1.52
14	2.27	2.17	14.73	3.56	5.50	2.24	1.94	1.43	2.17	1.32	2.37	1.50
15	2.05	2.00	11.69	3.04	5.38	2.20	1.93	1.37	2.00	1.89	2.09	1.54
16	1.92	1.99	10.18	4.62	5.46	2.17	1.89	1.37	1.92	2.11	1.91	2.26
17	1.87	1.98	11.74	11.14	4.69	2.13	1.83	1.50	1.79	1.74	1.60	1.69
18	1.80	1.95	11.89	7.95	3.99	2.09	1.79	1.42	1.65	1.44	1.47	1.78
19	1.74	1.89	8.66	7.81	3.77	2.05	1.76	1.37	1.54	1.33	1.44	1.60
20	1.69	1.82	4.21	7.96	3.72	2.03	1.70	1.35	1.47	1.31	1.40	1.52
21	1.64	2.68	3.30	6.13	3.55	2.01	1.65	1.34	1.42	2.32	1.37	1.50
22	1.60	5.70	2.93	5.38	3.20	2.00	1.63	1.64	1.42	1.95	1.35	1.48
23	1.59	3.69	2.73	5.68	2.93	1.99	1.62	1.67	1.41	4.07	1.34	1.91
24	---	2.78	2.60	16.97	2.75	3.12	1.59	1.54	1.38	4.40	1.33	2.07
25	---	2.45	2.52	19.02	2.64	4.79	1.56	1.45	1.36	2.42	1.32	1.75
26	---	2.34	2.44	18.18	2.58	3.40	1.53	1.38	1.35	1.97	1.32	1.57
27	---	2.29	2.39	18.10	2.55	2.79	1.52	1.35	1.35	1.85	1.31	1.50
28	---	2.60	2.35	16.55	2.53	2.48	1.50	1.34	1.34	1.61	2.14	1.47
29	---	12.58	2.52	13.80	---	2.29	1.50	1.33	1.34	1.58	8.86	1.46
30	---	19.63	2.93	10.84	---	2.16	1.48	1.33	1.34	1.73	5.10	1.45
31	---	---	3.20	8.82	---	2.08	---	1.35	---	1.65	3.25	---
MEAN	---	---	6.40	7.30	5.22	2.41	1.76	1.45	2.20	1.74	2.00	1.94
MAX	12.69	19.63	17.91	19.02	10.41	4.79	2.02	1.67	5.21	4.40	8.86	4.73
MIN	---	1.82	2.35	2.43	2.53	1.99	1.48	1.33	1.34	1.31	1.31	1.45

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 September 1978 (discontinued). 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) National Geodetic Vertical Datum of 1929 (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 diversion above station and below Lake Tawakoni for oilfield operation, municipal, and industrial uses. Low flows are sustained by sewage effluents returned to the river above the station. During the current year, the city of Longview reported that 6,840 acre-ft (8.43 km³) of sewage effluent was returned to the river above this station.

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); 18 years (water years 1961-78) regulated, 2,260 ft³/s (64.00 m³/s), 1,637,000 acre-ft/yr (2.02 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, 5,040 ft³/s (143 m³/s) Mar. 22, gage height, 14.27 ft (4.349 m); minimum, 25 ft³/s (0.71 m³/s) Sept. 12, from graph based on gage readings.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	98	1370	469	1110	1770	2600	407	349	91	220	34
2	112	106	1450	488	1310	1630	2680	409	449	94	164	30
3	103	165	1410	508	1320	1520	2750	462	514	92	132	28
4	97	349	1340	511	1260	1450	2630	748	726	91	100	32
5	94	498	1230	508	1160	1350	2380	875	579	92	85	36
6	91	624	1090	490	1050	1310	1910	826	598	113	83	35
7	87	820	973	490	978	1600	1620	808	685	106	78	34
8	87	970	832	488	911	2820	1520	906	522	95	75	35
9	81	1080	696	495	853	3380	1350	1040	363	90	103	34
10	80	978	599	519	827	3530	1060	982	302	83	112	33
11	107	762	530	511	837	3610	1030	832	265	71	122	31
12	142	600	532	516	875	3580	1020	1150	241	63	174	27
13	150	549	596	584	1270	3600	963	1730	220	63	205	47
14	147	622	766	656	1910	3850	881	2120	207	62	143	60
15	135	726	826	808	1970	4170	844	2190	224	59	103	66
16	127	696	826	999	1970	4400	838	2180	220	59	92	202
17	129	562	805	1360	2070	4530	860	2150	194	59	65	214
18	143	438	750	1830	2320	4650	982	2160	164	62	56	143
19	174	365	661	1610	2600	4740	909	2280	150	59	44	127
20	176	318	587	1560	2720	4800	808	2340	142	52	42	126
21	160	285	543	1560	2810	4900	823	2100	135	50	40	119
22	145	295	516	1480	2890	5000	750	1620	130	49	38	112
23	132	322	485	1380	2870	4620	670	1160	129	48	43	98
24	118	347	456	1340	2840	4340	673	835	137	63	37	88
25	110	390	439	1470	2740	4230	732	613	152	70	32	85
26	110	401	426	1570	2530	3910	688	514	143	72	26	83
27	106	373	444	1500	2230	3490	552	464	134	95	26	80
28	104	339	514	1290	1970	3040	429	439	116	359	28	78
29	101	367	530	1120	---	2750	380	416	106	449	36	75
30	98	797	501	1030	---	2590	368	397	92	456	37	70
31	97	---	469	1010	---	2570	---	375	---	338	36	---
TOTAL	3667	15242	23192	30150	50201	103730	35700	35528	8688	3605	2577	2262
MEAN	118	508	748	973	1793	3346	1190	1146	290	116	83.1	75.4
MAX	176	1080	1450	1830	2890	5000	2750	2340	514	456	220	214
MIN	80	98	426	469	827	1310	368	375	92	48	26	27
AC-FT	7270	30230	46000	59800	99570	205700	70810	70470	17230	7150	5110	4490
CAL YR 1977	TOTAL	858742	MEAN	2353	MAX	11300	MIN	80	AC-FT	1703000		
WTR YR 1978	TOTAL	314542	MEAN	862	MAX	5000	MIN	26	AC-FT	623900		

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

[illegible]

SABINE RIVER BASIN

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08022000 SABINE RIVER NEAR TATUM, TX--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)	PCB, TOTAL (UG/L)	PCB, IN BOT-TOM MA-TERIAL (UG/KG)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)
JAN 26...	0	0	20	.1	0	.00	.00	.0	.0
MAR 21...	0	0	40	.0	0	.00	.00	.0	.0
JUL 18...	--	--	--	.0	2	.00	.00	.0	.0

DATE	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)
JAN 26...	1	.00	.0	.00	.0	.00	.0	.02	.00	.0
MAR 21...	0	.00	.0	.00	.0	.00	.0	.00	.00	.0
JUL 18...	1	.00	.2	.00	.0	.00	.0	.05	.00	.0

DATE	ENDRIN, TOTAL (UG/L)	ENDRIN, IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)
JAN 26...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
MAR 21...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
JUL 18...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL-PARA-THION, TOTAL (UG/L)	METHYL-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
JAN 26...	.00	.00	--	.00	0	0	.00	.02	.04	.00
MAR 21...	.00	.00	--	.00	0	0	.00	.01	.01	.00
JUL 18...	.00	.00	.00	.00	0	0	.00	.12	.04	.00

08022500 SABINE RIVER AT LOGANSFORT, 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.--4,842 mi² (12,541 km²).

PERIOD OF RECORD.--July 1903 to February 1968. March 1968 to current year (gage heights only).

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) National Geodetic Vertical Datum of 1929. 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. 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 sta 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 (1968-78), 32.50 ft (9.906 m) Apr. 20, 1969; minimum since initial filling of Toledo Bend Reservoir in June 1968, 17.97 ft (5.477 m) Nov. 29, 1977.
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, 24.77 ft (7.550 m) May 10; minimum, 17.97 ft (5.477 m) Nov. 29.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.73	18.50	18.52	18.82	21.36	21.78	22.78	22.87	---	22.15	21.06	20.17
2	18.50	18.38	18.68	19.03	21.45	21.71	22.80	22.92	---	22.23	21.04	20.19
3	18.53	18.22	18.62	19.06	21.58	21.52	22.62	22.85	---	22.04	20.98	20.19
4	18.53	18.30	18.65	19.14	21.61	21.74	22.66	22.88	---	22.00	20.92	20.15
5	18.44	18.36	18.70	19.11	21.58	21.90	22.87	23.00	---	21.91	20.84	20.11
6	18.48	18.37	18.71	19.12	21.61	21.97	22.67	23.10	23.19	22.02	20.80	20.12
7	18.65	18.39	18.72	19.22	21.50	21.60	22.60	23.73	23.10	21.82	20.75	20.02
8	18.31	18.45	18.75	18.60	21.46	21.75	22.66	24.22	22.98	21.82	20.67	20.18
9	18.48	18.39	---	19.13	21.39	22.05	22.87	24.45	22.93	21.84	20.60	20.21
10	18.58	18.46	---	19.22	21.45	22.29	22.41	24.75	23.08	21.70	20.60	20.22
11	18.50	18.43	---	19.18	21.52	22.24	22.70	24.20	23.22	21.73	20.58	20.13
12	18.54	18.41	18.58	19.14	21.60	22.35	22.75	23.80	22.90	21.69	20.58	20.26
13	18.50	18.47	18.78	19.16	21.60	22.43	22.83	23.80	22.89	21.67	20.55	20.21
14	18.50	18.46	18.87	19.30	21.87	22.35	22.87	23.77	22.86	21.53	20.53	23.46
15	18.31	18.56	19.01	19.59	21.97	22.09	22.83	23.58	22.81	21.45	20.50	22.50
16	18.48	18.38	19.18	19.20	22.00	22.33	22.84	23.40	22.83	21.46	20.48	22.09
17	18.48	18.33	19.03	19.68	21.88	22.36	23.03	23.37	22.84	21.44	20.45	22.12
18	18.46	18.43	19.10	19.87	21.90	22.54	22.76	23.43	22.80	21.40	20.38	22.00
19	18.46	18.38	18.81	19.85	22.02	22.59	22.75	23.40	22.84	21.30	20.35	21.91
20	18.45	18.39	18.96	20.09	21.70	22.65	22.87	23.38	22.70	21.27	20.30	21.88
21	18.42	18.35	18.92	20.17	21.85	22.68	23.01	23.35	22.60	21.24	20.24	21.62
22	18.40	18.36	19.16	20.20	22.01	22.85	23.02	23.33	22.64	21.19	20.20	21.53
23	18.51	18.35	18.95	20.28	21.90	23.02	23.02	23.32	22.62	21.15	20.15	21.46
24	18.35	18.28	18.92	20.64	22.00	23.04	22.96	23.27	22.59	21.14	20.13	21.31
25	18.43	18.12	18.87	20.85	21.80	23.17	22.80	---	22.56	21.13	20.11	21.24
26	18.40	18.61	18.95	21.05	21.84	23.26	22.88	---	22.55	21.10	20.10	21.17
27	18.42	18.03	18.96	21.16	21.91	23.33	22.90	---	22.39	21.14	20.10	21.13
28	18.40	18.07	19.03	21.15	21.61	23.25	23.20	---	22.23	21.15	20.10	21.20
29	18.40	18.23	19.01	21.17	---	22.98	23.20	---	22.20	21.15	20.23	21.17
30	18.48	18.44	19.04	21.14	---	22.69	22.94	---	22.16	21.15	20.22	21.16
31	18.57	---	19.08	21.25	---	22.63	---	---	---	21.10	20.18	---
MEAN	18.47	18.36	---	19.82	21.71	22.42	22.84	---	---	21.52	20.47	21.04
MAX	18.73	18.61	---	21.25	22.02	23.33	23.20	---	---	22.23	21.06	23.46
MIN	18.31	18.03	---	18.60	21.36	21.52	22.41	---	---	21.10	20.10	20.02

08022500 SABINE RIVER AT LOGANSPOUT, LA--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIOLOGICAL, 5 DAY (MG/L)	COLIFORM, FECA, 0.7 UM-MF (COLS./100 ML)	
NOV 16...	1600	246	6.7	18.0	110	50	8.8	--	3.8	K40	
FEB 15...	1030	379	6.6	6.0	60	40	11.0	26	3.8	K790	
APR 19...	1110	332	6.9	23.0	40	15	8.4	--	5.0	K70	
JUL 12...	1345	412	7.3	34.0	10	5	8.3	--	--	K70	
DATE	100 ML	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS, DISSOLVED (MG/L AS CaCO3)	HARDNESS, NONCARBONATE, DISSOLVED (MG/L AS CaCO3)	CALCIUM DISSOLVED (MG/L AS Ca)	MAGNESIUM, DISSOLVED (MG/L AS Mg)	SODIUM, DISSOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AU-SORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	
NOV 16...	K80		35	7	10	2.5	35	65	2.6	4.7	
FEB 15...	4200		63	38	15	6.1	48	61	2.6	3.6	
APR 19...	260		66	26	17	5.6	33	51	1.8	3.6	
JUL 12...	140		73	21	20	5.7	47	56	2.4	4.3	
DATE	HCO3	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CaCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	
NOV 16...	34		0	28	20	48	.2	8.8	161	146	
FEB 15...	30		0	25	38	71	.1	13	219	210	
APR 19...	49		0	40	30	47	.1	10	181	170	
JUL 12...	64		0	53	30	71	.3	6.7	217	217	
DATE	AC-FT	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	
NOV 16...	.22		--	--	--	.49	1.4	6.0	.17	8.0	
FEB 15...	.30		42	.41	.02	.43	--	--	2.3	10	
APR 19...	.25		--	--	--	.29	1.3	5.7	.16	11	
JUL 12...	.30		--	--	--	.03	.97	4.3	.04	7.9	
DATE	AS AS	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM, TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
FEB 15...	1		0	1	3	10	0	10	1	1	0

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

SABINE RIVER BASIN

08022500 SABINE RIVER AT LOGANSPOUT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)		
FEB 15...	1	20	30	0	39	36	3	4	120	5700		
DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)		
FEB 15...	11	11	0	0	2700	.0	.0	.0	.0	12		
DATE	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)		
FEB 15...	11	1	0	0	0	.0	40	20	20	120		
DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)
FEB 15...	.00	5	.0	0	.00	.00	.0	.0	6	.00	.2	.00
DATE	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	
FEB 15...	.0	.00	.0	.02	.3	.00	.1	.00	.0	.00	.0	
DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	
FEB 15...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	
DATE	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
FEB 15...	.0	.00	.00	.0	0	0	.00	.0	.01	.01	.00	

SABINE RIVER BASIN

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08022765 BAYOU CASTOR NEAR FUNSTON, LA

LOCATION.--Lat 32°00'57", long 93°57'35", SW¼NE¼ sec.24, T.12 N., R.16 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) National Geodetic Vertical Datum of 1929.

REMARKS.--Record good. Records of dissolved oxygen and water temperatures for water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--7 years, 60.3 ft³/s (1.708 m³/s), 8.95 in/yr (227 mm/yr), 43,690 acre-ft/yr (53.9 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) and maximum: May 8 (0715), 3,050 ft³/s (86.4 m³/s), gage height, 14.62 ft (4.456 m); minimum, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	4.5	1.1	20	6.1	15	1.3	3.7			0
2	0	0	5.7	.72	50	5.8	13	1.1	3.6			0
3	0	0	4.0	.44	40	5.8	12	2.8	3.7			0
4	0	0	2.8	.36	25	6.1	11	4.2	3.7			0
5	0	0	2.0	.36	17	5.7	10	3.5	3.4			0
6	0	0	1.6	.36	12	5.4	9.8	2.7	3.4			0
7	0	0	.72	.46	8.7	5.8	9.2	875	4.1			0
8	0	0	.32	.40	6.9	8.4	8.2	2480	4.4			0
9	0	.02	.29	.44	6.0	37	7.8	778	2.9			0
10	0	.01	.15	.40	5.0	22	16	86	3.3			0
11	0	0	.08	.65	4.5	15	71	36	2.9			0
12	0	0	.08	3.0	5.0	11	31	128	1.9			0
13	0	0	2.5	3.5	40	10	22	109	1.5			0
14	.02	.02	15	2.6	200	20	14	60	1.2			32
15	.08	.08	7.9	1.9	120	21	11	30	.90			24
16	.02	.04	4.4	36	70	19	8.4	20	.59			5.7
17	0	.02	4.9	40	40	13	7.8	16	.49			1.9
18	0	.01	2.5	27	25	9.2	7.5	14	.36			.44
19	0	0	1.5	51	18	7.4	6.0	12	.23			.07
20	0	0	.80	151	14	6.2	4.6	11	.11			.01
21	0	.23	.54	100	12	37	4.0	10	.03			0
22	0	3.5	.36	50	11	55	3.5	9.2	.01			0
23	0	6.7	.29	30	9.5	23	3.4	8.2	0			0
24	0	3.6	.23	50	8.2	251	3.3	7.4	0			0
25	0	2.1	.15	250	7.6	482	2.9	6.8	0			0
26	0	1.1	.13	150	6.8	201	2.5	6.4	0			0
27	0	.59	.13	80	6.4	51	2.0	5.4	0			0
28	0	.44	.13	50	6.1	32	1.7	5.0	0			0
29	0	1.3	.20	30	---	24	1.5	5.4	0			0
30	0	1.7	.32	20	---	20	1.5	5.0	0			0
31	0	---	1.0	13	---	17	---	4.2	---			---
TOTAL	.12	21.46	65.22	1144.69	794.7	1560.7	321.6	4743.6	46.42	0	0	64.12
MEAN	.004	.72	2.10	36.9	28.4	50.3	10.7	153	1.55	0	0	2.14
MAX	.08	6.7	15	250	200	482	71	2480	4.4	0	0	32
MIN	0	0	.08	.36	4.5	5.4	1.5	1.1	0	0	0	0
CFSM	0	.007	.02	.40	.31	.55	.12	1.67	.02	0	0	.02
IN.	.000004	.009	.03	.47	.32	.63	.13	1.93	.02	0	0	.03
AC-FT	.2	43	129	2270	1580	3100	638	9410	92	0	0	127
CAL YR 1977	TOTAL	10157.90	MEAN	27.8	MAX	660	MIN	0	CFSM	.30	IN	4.13
WTR YR 1978	TOTAL	8762.63	MEAN	24.0	MAX	2480	MIN	0	CFSM	.26	IN	3.56
									AC-FT	20150		17380

SABINE RIVER BASIN

08022765 BAYOU CASTOR NEAR FUNSTON, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.59	1.58	2.45	2.36	---	2.74	3.13	2.24	2.41	1.67	1.47	1.43
2	1.57	1.59	2.56	2.32	---	2.73	3.05	2.22	2.40	1.65	1.46	1.43
3	1.54	1.57	2.45	2.27	---	2.73	2.99	2.37	2.41	1.70	1.46	---
4	1.50	1.56	2.36	2.25	---	2.74	2.94	2.50	2.41	1.69	1.46	---
5	1.48	1.56	2.31	2.25	---	2.72	2.90	2.44	2.38	1.67	1.46	---
6	1.46	1.56	2.28	2.25	---	2.70	2.86	2.37	2.38	1.65	1.46	---
7	1.45	1.56	2.21	2.25	2.90	4.38	2.82	11.01	2.44	1.63	1.45	---
8	1.44	1.61	2.15	2.26	2.80	5.21	2.77	14.37	2.46	1.61	1.45	---
9	1.44	1.73	2.15	2.27	---	4.03	2.73	12.01	2.34	1.58	1.45	---
10	1.49	1.71	2.12	2.26	---	3.51	3.13	5.22	2.37	1.56	1.45	---
11	1.63	1.69	2.09	2.31	---	3.23	4.93	3.95	2.33	1.54	1.45	---
12	1.60	1.68	2.11	2.52	---	3.06	3.78	6.15	2.25	1.52	1.45	---
13	1.58	1.67	2.41	2.57	---	2.98	3.45	5.80	2.21	1.50	1.44	1.60
14	1.73	1.69	3.22	2.50	---	3.43	3.09	4.68	2.18	1.50	1.44	3.35
15	1.79	1.79	2.86	2.44	---	3.49	2.90	3.72	2.14	1.52	1.44	3.44
16	1.74	1.76	2.63	3.94	---	3.39	2.78	3.33	2.11	1.60	1.44	2.55
17	1.70	1.73	2.66	4.13	---	3.12	2.74	3.15	2.09	1.57	1.44	2.25
18	1.67	1.72	2.49	3.69	---	2.94	2.71	3.05	2.06	1.54	1.44	2.06
19	1.65	1.71	2.40	4.27	---	2.82	2.62	2.97	2.01	1.52	1.43	1.93
20	1.64	1.71	2.33	6.57	---	2.75	2.53	2.89	1.97	1.50	1.43	1.84
21	1.63	1.83	2.29	---	---	3.93	2.48	2.83	1.91	1.49	1.43	1.78
22	1.62	2.25	2.25	---	3.02	4.56	2.44	2.78	1.88	1.49	1.43	1.72
23	1.60	2.50	2.23	---	2.94	3.54	2.43	2.73	1.85	1.48	1.43	1.68
24	1.60	2.29	2.21	---	2.88	7.94	2.42	2.68	1.83	1.48	1.42	1.64
25	1.60	2.17	2.18	---	2.84	11.26	2.39	2.63	1.80	1.47	1.42	1.62
26	1.58	2.09	2.17	---	2.79	7.25	2.35	2.60	1.78	1.47	1.42	1.58
27	1.56	2.04	2.17	---	2.76	4.42	2.31	2.55	1.75	1.47	1.42	1.56
28	1.54	2.03	2.17	---	2.74	3.83	2.28	2.51	1.72	1.47	1.41	1.55
29	1.52	2.16	2.20	---	---	3.51	2.26	2.54	1.71	1.47	1.51	1.56
30	1.51	2.21	2.23	---	---	3.33	2.26	2.51	1.69	1.47	1.48	1.55
31	1.58	---	2.34	---	---	3.22	---	2.45	---	1.47	1.44	---
MEAN	1.58	1.83	2.34	---	---	3.92	2.82	4.04	2.11	1.55	1.44	---
MAX	1.79	2.50	3.22	---	---	11.26	4.93	14.37	2.46	1.70	1.51	3.44
MIN	1.44	1.56	2.09	2.25	---	2.70	2.26	2.22	1.69	1.47	1.41	---

SABINE RIBER BASIN

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08023000 BAYOU CASTOR NEAR LOGANSPOET, 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) National Geodetic Vertical Datum of 1929. 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 (61.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,030 ft³/s (277 m³/s) Apr. 6, 1956, gage height, 23.33 ft (7.11 m); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.98 ft (4.871 m) May 8; minimum, 0.23 ft (0.070 m) Aug. 28.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.27	.98	2.28	2.08	2.65	2.16	2.33	1.89	2.02	1.36	1.05	.82
2	1.25	.99	2.27	2.14	3.54	2.16	2.28	1.91	2.00	1.32	1.03	.82
3	1.21	.98	2.20	2.12	3.16	2.15	2.24	1.99	2.00	1.29	1.01	.80
4	1.18	.97	2.13	2.10	2.66	2.15	2.22	2.05	2.00	1.26	.99	.78
5	1.16	.97	2.08	2.08	2.46	2.16	2.20	2.08	2.02	1.24	.96	.68
6	1.15	.97	2.05	2.07	2.36	2.15	2.18	2.04	2.02	1.23	.95	.67
7	1.13	.96	2.02	2.06	2.29	2.24	2.17	5.58	2.07	1.22	.93	.65
8	1.12	.95	1.98	2.07	2.26	3.87	2.15	13.93	2.08	1.20	.92	.63
9	1.10	1.17	1.93	2.08	2.23	2.96	2.13	12.18	2.08	1.18	.89	.62
10	1.08	1.22	1.91	2.07	2.23	2.58	2.11	5.33	2.03	1.17	.87	.58
11	1.22	1.22	1.89	2.07	2.22	2.43	3.39	3.03	2.06	1.16	.85	.46
12	1.21	1.21	1.90	2.15	2.22	2.33	2.87	4.21	2.03	1.14	.83	.54
13	1.19	1.20	1.97	2.20	3.07	2.27	2.55	3.90	1.98	1.13	.81	.59
14	1.18	1.20	2.67	2.31	4.28	2.38	2.36	3.46	1.98	1.12	.78	4.30
15	1.17	1.20	2.64	2.27	3.27	2.53	2.24	2.81	1.97	1.10	.74	2.98
16	1.15	1.22	2.31	2.21	2.62	2.45	2.17	2.53	1.93	1.15	.70	2.32
17	1.14	1.23	2.24	3.57	2.42	2.38	2.13	2.40	1.91	1.13	.66	2.07
18	1.13	1.23	2.23	3.20	2.44	2.28	2.16	2.33	1.87	1.12	.62	1.94
19	1.12	1.22	2.16	3.09	2.52	2.21	2.10	2.27	1.85	1.10	.58	1.84
20	1.11	1.22	2.10	2.95	2.44	2.17	2.06	2.23	1.82	1.07	.54	1.77
21	1.10	1.32	2.07	2.72	2.40	2.37	2.03	2.20	1.77	1.05	.50	1.68
22	1.09	1.38	2.05	2.55	2.32	3.43	2.00	2.18	1.72	1.03	.47	1.62
23	1.08	1.38	2.04	2.48	2.25	2.68	1.99	2.16	1.67	1.02	.43	1.57
24	1.07	2.14	2.03	3.60	2.20	3.40	1.99	2.14	1.62	1.00	.39	1.52
25	1.07	2.06	2.00	4.39	2.22	6.52	1.99	2.12	1.58	.99	.36	1.49
26	1.06	1.96	2.00	4.05	2.19	6.68	1.97	2.10	1.53	.96	.32	1.48
27	1.04	1.90	1.98	3.30	2.17	3.25	1.96	2.08	1.48	1.07	.28	1.48
28	1.03	1.83	1.97	2.67	2.17	2.79	1.94	2.07	1.46	1.12	.23	1.49
29	1.02	2.05	2.02	2.44	---	2.58	1.93	2.08	1.42	1.11	.84	1.49
30	1.00	2.22	2.04	2.34	---	2.46	1.92	2.06	1.38	1.09	.83	1.50
31	.99	---	2.05	2.33	---	2.38	---	2.05	---	1.07	.83	---
MEAN	1.12	1.35	2.10	2.57	2.55	2.79	2.19	3.27	1.85	1.14	.72	1.37
MAX	1.27	2.22	2.67	4.39	4.28	6.68	3.39	13.93	2.08	1.36	1.05	4.30
MIN	.99	.95	1.89	2.06	2.17	2.15	1.92	1.89	1.38	.96	.23	.46

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 National Geodetic Vertical Datum of 1929 (levels by Sabine River Authority). Prior to July 20, 1967, nonrecording gage 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.--The reservoir is formed by a rolled earthfill dam. Closure of 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-m) tainter gates. An 8.33- by 12-foot (2.54- by 4-m) 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-m) 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-m) 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 (Texas sta 08022500). Figures given herein represent total contents. 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, 3,433,000 acre-ft (4.23 km³) Nov. 27, 1977, elevation, 165.74 ft (50.518 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,324,000 acre-ft (5.33 km³) May 13, elevation, 171.15 ft (52.167 m); minimum, 3,433,000 acre-ft (4.23 km³) Nov. 27, elevation, 165.74 ft (50.518 m).

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

165.0	3,322,000	171.0	4,297,000
167.0	3,628,000	172.0	4,476,000
169.0	3,953,000		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3537000	3520000	3519000	3641000	4017000	4037000	4136000	4235000	4269000	4109000	3920000	3792000
2	3562000	3520000	3514000	3617000	4021000	4064000	4152000	4223000	4267000	4099000	3908000	3787000
3	3544000	3525000	3522000	3611000	4021000	4071000	4159000	4246000	4262000	4097000	3908000	3789000
4	3531000	3534000	3525000	3602000	4021000	4041000	4164000	4232000	4260000	4085000	3913000	3787000
5	3531000	3517000	3579000	3613000	4021000	4019000	4166000	4209000	4262000	4078000	3906000	3781000
6	3530000	3512000	3540000	3613000	4016000	4037000	4176000	4207000	4253000	4056000	3895000	3772000
7	3505000	3508000	3514000	3621000	4024000	4081000	4180000	4223000	4274000	4059000	3885000	3761000
8	3550000	3517000	3545000	3531000	4017000	4078000	4178000	4246000	4276000	4047000	3873000	3753000
9	3522000	3519000	354000	3633000	4022000	4061000	4166000	4258000	4267000	4041000	3870000	3750000
10	3534000	3511000	3537000	3630000	4009000	4053000	4239000	4262000	4253000	4027000	3862000	3759000
11	3537000	3509000	3534000	3652000	3999000	4088000	4199000	4256000	4242000	4017000	3857000	3751000
12	3530000	3509000	3530000	3660000	4021000	4085000	4201000	4283000	4260000	4005000	3839000	3742000
13	3523000	3505000	3579000	3660000	4056000	4093000	4204000	4296000	4248000	4002000	3844000	3750000
14	3522000	3503000	3584000	3655000	4051000	4097000	4201000	4296000	4239000	3994000	3829000	3883000
15	3548000	3503000	3581000	3630000	4059000	4143000	4202000	4296000	4225000	4000000	3821000	4002000
16	3522000	3503000	3581000	3730000	4054000	4083000	4204000	4296000	4209000	4002000	3819000	4039000
17	3511000	3501000	3595000	3708000	4086000	4076000	4218000	4271000	4209000	3990000	3810000	4037000
18	3519000	3482000	3587000	3743000	4071000	4061000	4232000	4294000	4209000	3977000	3800000	4046000
19	3519000	3489000	3628000	3772000	4061000	4069000	4249000	4296000	4190000	3974000	3806000	4042000
20	3519000	3489000	3602000	3758000	4104000	4068000	4244000	4297000	4192000	3953000	3805000	4029000
21	3515000	3514000	3598000	3772000	4066000	4111000	4232000	4308000	4192000	3937000	3805000	4031000
22	3517000	3500000	3578000	3781000	4041000	4109000	4237000	4297000	4180000	3947000	3792000	4024000
23	3509000	3489000	3590000	3789000	4053000	4100000	4234000	4287000	4174000	3950000	3789000	4007000
24	3520000	3485000	3597000	3849000	4037000	4157000	4242000	4289000	4171000	3947000	3782000	4000000
25	3520000	3485000	3598000	3883000	4058000	4157000	4255000	4283000	4148000	3928000	3772000	3987000
26	3522000	3438000	3594000	3892000	4041000	4157000	4244000	4278000	4148000	3933000	3771000	3979000
27	3520000	3465000	3586000	3911000	4042000	4157000	4234000	4278000	4136000	3948000	3751000	3965000
28	3523000	3468000	3587000	3923000	4061000	4157000	4211000	4272000	4133000	3937000	3841000	3953000
29	3522000	3517000	3611000	3927000	---	4154000	4211000	4269000	4131000	3928000	3810000	3953000
30	3509000	3519000	3613000	3953000	---	4164000	4228000	4267000	4126000	3923000	3802000	3953000
31	3506000	---	3613000	3967000	---	4140000	---	4258000	---	3915000	3800000	---
(+)	166.22	166.30	166.90	169.08	169.64	170.10	170.61	170.78	170.22	168.77	168.07	169.00
(+)	-29000	+13000	+94000	+354000	+94000	+79000	+88000	+30000	-132000	-211000	-115000	+153000
MAX	3562000	3534000	3628000	3967000	4104000	4157000	4255000	4308000	4276000	4109000	3920000	4046000
MIN	3505000	3438000	3514000	3531000	3999000	4019000	4136000	4207000	4126000	3915000	3751000	3742000

CAL YR 1977 MAX 4527000 MIN 3438000 ‡ -225,000
WTR YR 1978 MAX 4308000 MIN 3438000 ‡ +418,000

† Elevation, in feet, at end of month.

‡ Change in contents, in acre-feet.

SABINE RIVER BASIN

245

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 National Geodetic Vertical Datum of 1929 (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.--7 years, 5,688 ft³/s (161.1 m³/s), 4,121,000 acre-ft/yr (5.08 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, 9,140 ft³/s (259 m³/s) Mar. 28; minimum daily, 37 ft³/s (1.05 m³/s) Mar. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	93	89	90	90	37	91	3110	2530	2810	2020	2140
2	89	93	89	90	5060	80	91	2940	2370	91	2000	2020
3	72	93	89	90	3760	3970	1980	58	91	3700	1980	2020
4	93	93	89	90	3600	3760	91	3040	91	3660	1970	2040
5	93	93	89	90	3320	3780	91	3170	2540	3660	1990	2170
6	93	93	89	90	3700	90	91	91	2170	3610	1910	2120
7	125	93	89	90	3700	90	91	91	2310	3580	1980	2060
8	93	93	89	90	3820	2710	91	3170	2520	3630	1980	1860
9	93	107	89	90	3560	2680	91	3050	2540	91	2000	91
10	106	106	89	90	3820	2670	91	3020	91	3620	2010	91
11	78	89	89	90	3880	90	91	2980	91	3550	1960	1990
12	100	89	89	90	3620	90	1320	2960	2530	1820	1990	2000
13	100	89	89	90	3840	2510	91	91	2570	1840	2100	2050
14	100	89	89	90	3900	4930	1230	91	2570	1880	1970	1960
15	100	89	89	90	3940	4990	91	2990	2600	91	2030	1900
16	100	2380	89	90	4870	7780	91	3010	2550	91	2150	1900
17	100	3500	89	90	5200	8470	104	2720	91	1880	2140	1950
18	100	2680	89	90	6150	3780	91	2870	91	4520	1990	3560
19	100	89	74	90	6480	3500	91	4410	2510	1480	91	4860
20	100	89	103	90	5110	3900	91	91	2930	4120	91	4840
21	968	2690	90	90	6680	2680	91	91	2550	1670	2120	4980
22	93	3260	90	90	7660	4530	91	3020	2450	91	2010	4950
23	93	4100	90	90	4570	7890	91	2620	2420	91	1990	4900
24	93	3970	90	90	5790	8460	70	2950	91	91	2100	4900
25	93	3940	90	90	6190	6030	102	3040	5100	3590	2060	3730
26	93	3720	90	90	3840	5930	102	2960	4700	91	91	4970
27	93	4000	90	90	3720	6030	499	91	2510	91	91	4960
28	93	89	90	90	3700	9140	95	91	3120	1930	91	91
29	93	89	90	90	---	7810	91	3030	2410	2020	91	91
30	93	89	90	90	---	8570	91	2940	2700	91	1970	91
31	93	---	90	90	---	3770	---	3020	---	1970	1970	---
TOTAL	3822	36087	2769	2790	123570	130747	7413	67806	63837	61450	50936	77285
MEAN	123	1203	89.3	90.0	4413	4218	247	2187	2128	1982	1643	2576
MAX	968	4100	103	90	7660	9140	1980	4410	5100	4520	2150	4980
MIN	72	89	74	90	90	37	70	58	91	91	91	91
AC-FT	7580	71580	5490	5530	245100	259300	14700	134500	126600	121900	101000	153300
CAL YR 1977	TOTAL	1395929	MEAN	3824	MAX	10700	MIN	34	AC-FT	2769000		
WTR YR 1978	TOTAL	628512	MEAN	1722	MAX	9140	MIN	37	AC-FT	1247000		

SABINE RIVER BASIN

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 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	HARDNESS, DIS-SOLVED AS CaCO_3 (MG/L)	HARDNESS, NON-CARBONATE, DIS-SOLVED AS CaCO_3 (MG/L)	CALCIUM, DIS-SOLVED AS Ca (MG/L)	MAGNESIUM, DIS-SOLVED AS Mg (MG/L)
OCT 13...	0945	252	6.7	16.0	3.2	33	1.4	36	0	9.5	2.9
DEC 20...	1515	224	7.2	13.5	7.6	75	.6	41	8	10	3.8
FEB 23...	1330	211	6.9	7.5	12.0	103	.5	41	15	10	4.0
APR 25...	1310	220	6.7	15.0	7.5	80	.9	37	0	9.1	3.4
JUL 05...	1010	220	6.3	27.5	7.4	95	.6	41	14	10	4.0
AUG 17...	1430	240	6.8	26.0	6.5	106	.8	44	15	11	4.1

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO_3)	CARBONATE (MG/L AS CO_3)	ALKALINITY, TOTAL (MG/L AS CaCO_3)	SULFATE, DIS-SOLVED (MG/L AS SO_4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO_2)
OCT 13...	35	66	2.6	3.0	65	0	53	19	20	.1	24
DEC 20...	23	53	1.6	3.1	40	0	33	20	31	.1	9.6
FEB 23...	20	49	1.4	3.1	32	0	26	19	32	.1	6.8
APR 25...	28	60	2.0	3.1	49	0	40	18	29	.0	17
JUL 05...	21	50	1.4	3.1	34	0	28	19	31	.1	5.6
AUG 17...	25	53	1.6	3.0	36	0	30	20	32	.1	5.9

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO ₃)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 13...	154	.21	.00	.00	.00	.05	.25	.30	.30	1.3	.16
DEC 20...	120	.16	.02	.01	.03	.09	.41	.50	.53	2.3	.02
FEB 23...	111	.15	.11	.00	.11	.04	.24	.28	.39	1.7	.03
APR 25...	132	.18	.08	.02	.10	.10	.37	.47	.57	2.5	.11
JUL 05...	111	.15	.02	.00	.02	.00	.40	.40	.42	1.9	.00
AUG 17...	119	.16	.00	.01	.01	.03	.58	.61	.62	2.7	.04

SABINE RIVER BASIN

247

08025500 BAYOU TORO NEAR TORO, LA

LOCATION.--Lat 31°18'25", long 93°30'56", in SW¼ sec.20, T.4 N., R.11 W., Sabine Parish, 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) National Geodetic Vertical Datum of 1929 (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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--23 years, 135 ft³/s (3.823 m³/s), 12.39 in/yr (315 mm/yr), 97,810 acre-ft/yr (121 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)
Jan. 17	0530	1410	39.9	Feb. 1	1515	2030	57.5
Jan. 24	1645	*2270	64.3	Feb. 12	0145	1210	34.3
			10.56				12.46
			3.219				3.798
			*13.15				9.89
			4.008				3.014

Minimum discharge, 1.7 ft³/s (0.05 m³/s) Aug. 13, 25, 27, 28; gage height, 2.64 ft (0.085 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	5.3	11	665	80	1660	70	39	9.7	16	5.8	6.9	30		
2	5.7	15	223	61	1610	68	35	9.8	53	6.1	4.4	18		
3	5.7	11	101	50	1010	69	33	16	65	5.1	4.2	15		
4	9.9	9.1	74	42	331	79	31	21	38	4.6	4.0	331		
5	12	8.1	57	37	222	73	30	26	26	4.2	3.9	188		
6	8.2	6.2	46	35	174	63	29	21	16	9.8	3.5	52		
7	6.2	5.5	37	35	150	62	27	19	165	7.7	3.0	27		
8	6.2	5.9	29	77	138	67	25	20	149	5.7	2.5	18		
9	9.0	11	26	88	129	67	24	18	73	5.2	2.4	15		
10	13	24	25	71	122	59	23	16	39	4.9	2.3	12		
11	54	16	32	52	290	54	25	14	23	4.0	2.1	11		
12	106	9.6	28	167	773	51	26	13	19	3.5	1.8	54		
13	45	6.9	109	209	204	49	30	12	15	2.8	2.1	32		
14	23	6.0	642	129	244	49	25	12	17	3.2	35	421		
15	15	7.2	409	89	281	50	22	11	26	2.7	26	855		
16	11	8.6	126	321	161	46	19	11	11	3.5	17	324		
17	9.0	12	88	1250	121	39	19	10	9.7	3.6	9.1	88		
18	7.7	14	70	844	101	34	18	9.4	6.6	3.5	5.8	54		
19	6.9	16	57	373	87	32	17	9.3	7.8	3.9	4.1	39		
20	6.5	19	48	331	81	32	16	9.1	7.8	3.8	3.2	30		
21	6.2	31	41	206	76	73	14	9.1	7.0	3.2	2.9	24		
22	5.8	22	34	152	86	418	13	7.9	6.7	2.8	2.5	20		
23	5.6	26	29	201	82	248	13	7.0	6.6	5.5	2.3	17		
24	5.4	20	28	1730	80	117	13	7.9	5.8	13	2.0	15		
25	5.2	16	28	2050	78	107	12	7.5	6.5	14	1.8	13		
26	5.0	11	27	1920	76	95	11	6.6	5.6	17	2.1	12		
27	4.8	10	25	934	74	71	10	5.8	5.8	14	1.8	11		
28	4.7	16	23	324	70	60	9.6	5.7	4.4	9.9	2.8	9.8		
29	4.6	155	49	241	---	50	9.3	5.6	3.8	7.7	136	9.5		
30	4.5	695	125	252	---	45	9.3	5.2	4.6	7.9	151	9.2		
31	4.5	---	125	458	---	42	---	6.7	---	8.3	61	---		
TOTAL	421.6	1224.1	3426	12809	8511	2439	627.2	362.3	831.7	196.9	509.5	2754.5		
MEAN	13.6	40.8	111	413	304	78.7	20.9	11.7	27.7	6.35	16.4	91.8		
MAX	106	695	665	2050	1660	418	39	26	165	17	151	855		
MIN	4.5	5.5	23	35	70	32	9.3	5.2	3.8	2.7	1.8	9.2		
CFSM	.09	.28	.75	2.79	2.05	.53	.14	.08	.19	.04	.11	.62		
IN.	.11	.31	.86	3.22	2.14	.61	.16	.09	.21	.05	.13	.69		
AC-FT	836	2430	6800	25410	16880	4840	1240	719	1650	391	1010	5460		
CAL YR 1977	TOTAL	37260.2	MEAN	102	MAX	2480	MIN	3.6	CFSM	.69	IN	9.37	AC-FT	73910
WTR YR 1978	TOTAL	34112.8	MEAN	93.5	MAX	2050	MIN	1.8	CFSM	.63	IN	8.57	AC-FT	67660

SABINE RIVER BASIN

08025500 BAYOU TORO NEAR TORO, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.81	3.46	7.72	4.27	11.28	4.22	3.76	3.06	3.07	2.81	2.84	3.31
2	2.83	3.69	5.54	4.01	11.23	4.20	3.72	3.05	3.69	2.82	2.77	3.08
3	2.83	3.72	4.54	3.84	9.06	4.21	3.68	3.19	3.88	2.79	2.76	3.02
4	2.93	3.81	4.18	3.72	6.18	4.35	3.65	3.28	3.46	2.77	2.75	5.79
5	2.98	3.84	3.96	3.65	5.55	4.27	3.62	3.36	3.18	2.76	2.75	5.09
6	2.89	3.84	3.78	3.62	5.20	4.14	3.60	3.26	3.07	2.91	2.73	3.66
7	2.84	3.87	3.64	3.62	4.99	4.13	3.56	3.22	4.84	2.86	2.71	3.26
8	2.84	3.93	3.54	4.21	4.87	4.18	3.53	3.22	4.90	2.81	2.69	3.07
9	2.91	4.10	3.48	4.37	4.78	4.18	3.50	---	3.99	2.79	2.68	3.02
10	2.99	4.42	3.47	4.15	4.70	4.08	3.48	---	3.47	2.78	2.68	2.96
11	3.66	4.27	3.59	3.88	5.50	4.01	3.50	---	3.21	2.75	2.67	2.94
12	4.42	4.15	3.52	5.16	8.13	3.97	3.51	---	3.11	2.73	2.65	3.69
13	3.56	4.09	4.32	5.51	5.51	3.94	3.58	---	3.04	2.71	2.67	3.34
14	3.20	4.08	7.67	4.85	5.71	3.95	3.48	---	3.06	2.72	3.37	6.18
15	3.04	4.12	6.53	4.38	5.98	3.96	3.41	---	3.13	2.70	3.24	8.53
16	2.96	4.16	4.81	5.57	5.21	3.89	3.36	---	2.95	2.73	3.06	5.98
17	2.91	4.24	4.37	10.01	4.84	3.79	3.34	---	2.92	2.74	2.90	4.22
18	2.88	4.29	4.12	8.46	4.62	3.73	3.32	2.94	2.89	2.74	2.81	3.74
19	2.86	4.32	3.95	6.41	4.45	3.70	3.29	2.94	2.87	2.75	2.76	3.50
20	2.85	4.35	3.82	6.21	4.37	3.70	3.26	2.94	2.87	2.74	2.72	3.36
21	---	4.55	3.71	5.49	4.30	4.23	3.21	2.94	2.85	2.72	2.71	3.26
22	---	4.34	3.61	5.08	---	6.60	3.19	2.91	2.84	2.71	2.69	3.17
23	---	4.39	3.55	5.44	---	5.73	3.18	2.89	2.83	2.80	2.68	3.11
24	---	4.24	3.53	11.36	---	4.81	3.17	2.90	2.81	2.98	2.66	3.07
25	---	3.79	3.52	12.53	---	4.69	3.15	2.89	2.83	3.00	2.65	3.04
26	---	3.19	3.50	12.16	---	4.55	3.13	2.86	2.80	3.07	2.67	3.01
27	---	3.17	3.46	8.72	4.26	4.24	3.10	2.84	2.78	3.01	2.65	2.99
28	---	3.28	3.42	6.13	4.23	4.07	3.08	2.84	2.77	2.89	2.70	2.96
29	---	4.83	3.81	5.65	---	3.96	3.06	2.83	2.75	2.86	4.71	2.96
30	---	7.85	4.77	5.73	---	3.87	3.06	2.82	2.77	2.87	4.91	2.95
31	3.16	---	4.80	6.81	---	3.81	---	2.87	---	2.88	3.79	---
MEAN	---	4.15	4.26	5.97	---	4.23	3.38	---	3.19	2.81	2.94	3.74
MAX	4.42	7.85	7.72	12.53	11.28	6.60	3.76	3.36	4.90	3.07	4.91	8.53
MIN	2.81	3.17	3.42	3.62	4.23	3.70	3.06	2.82	2.75	2.70	2.65	2.94

SABINE RIVER BASIN

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08025606 BAYOU TORO NEAR TOLEDO BEND, NEAR TORO, LA

LOCATION.--Lat 31°12'12", long 93°32'39", sec.25, T.2 N., R.11 W., Vernon Parish, Hydrologic Unit 12010005, near left bank on downstream side of bridge on State Highway 111 and 392, 1.8 mi (2.9 km) upstream from mouth and 7.3 mi (11.8 km) south of Toro.

DRAINAGE AREA.--193 mi² (500 km²).

PERIOD OF RECORD.--June 1966 to July 1974 low-flow measurements and occasional miscellaneous measurements. October 1976 to current year (elevations only).

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

EXTREMES FOR CURRENT PERIOD.--Water year 1977: Maximum elevation, 98.92 ft (30.151 m) Mar. 4; minimum not determined.

Water year 1978: Maximum elevation, 97.56 ft (29.736 m) Jan. 24; minimum observed, 91.65 ft (27.935 m) Aug. 3 but may have been less during periods below lowest recordable elevation.

ELEVATION, IN FEET NGVD, 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		92.23	92.37	92.33	92.70	92.22	96.23	92.20	91.87	---	---	92.04
2	92.08	92.08	92.24	92.29	92.67	92.20	95.07	92.65	92.24	---	---	92.94
3	91.99	92.00	92.15	92.67	94.05	92.22	94.82	93.47	92.07	---	---	91.89
4	91.94	91.95	92.10	92.80	95.07	98.75	93.26	92.78	91.94	---	---	91.88
5	91.90	91.92	92.08	92.80	94.45	96.47	93.11	92.46	91.90	---	---	91.83
6	91.88	91.90	92.15	92.70	93.23	96.55	92.97	92.33	91.86	91.84	---	---
7	91.85	91.89	93.28	92.82	92.87	93.78	92.70	92.25	91.89	---	---	---
8	91.85	91.88	93.52	92.71	92.71	93.07	92.57	92.20	91.87	---	---	91.84
9	91.85	91.88	92.75	93.25	92.61	92.88	92.49	92.16	91.83	---	---	91.83
10	91.85	91.87	92.46	93.86	92.55	92.77	92.43	92.12	91.82	---	---	91.85
11	91.84	91.88	92.36	93.55	92.68	92.70	92.38	92.09	91.80	---	---	92.30
12	91.84	92.02	93.34	92.84	93.05	93.73	92.34	92.07	---	---	---	92.20
13	91.84	91.97	93.67	92.65	93.32	93.81	92.31	92.05	---	---	---	92.02
14	91.83	92.12	93.34	93.55	93.07	93.07	92.27	92.03	91.82	91.80	---	91.93
15	91.82	92.13	92.80	93.90	92.77	92.82	92.25	92.01	92.06	91.80	91.90	91.91
16	91.90	92.06	92.64	93.29	92.61	92.68	92.23	91.99	92.17	91.83	91.88	91.83
17	91.87	92.13	92.53	92.84	92.52	92.60	92.37	91.98	92.26	91.85	92.04	91.81
18	91.85	92.06	92.43	92.66	92.47	92.54	92.72	91.97	92.18	---	91.93	91.80
19	91.84	92.05	92.35	92.56	92.44	92.48	93.05	91.97	92.09	91.80	93.95	---
20	91.86	92.20	92.50	92.50	92.39	92.47	92.71	91.96	92.00	---	93.01	91.82
21	91.85	92.27	92.85	92.45	92.36	92.45	93.58	91.95	91.93	91.83	92.48	91.85
22	91.85	92.29	92.86	92.42	92.34	92.42	93.60	91.94	91.88	91.83	92.20	91.84
23	91.84	92.23	92.55	92.40	92.33	92.36	92.89	91.93	91.84	91.80	92.13	91.85
24	91.85	92.14	92.42	92.45	92.31	92.33	92.58	91.92	91.82	---	92.05	91.80
25	91.88	92.06	92.47	92.60	92.30	92.35	92.43	91.94	91.80	---	92.04	---
26	91.87	92.08	93.50	92.64	92.29	92.35	92.34	91.92	---	---	92.09	---
27	91.87	92.12	93.63	92.61	92.26	92.35	92.27	91.90	---	---	92.08	---
28	91.87	92.15	92.82	92.45	92.24	92.62	92.23	91.88	---	---	91.98	---
29	91.90	92.44	92.58	92.41	---	93.26	92.19	91.87	---	---	91.99	---
30	92.12	92.45	92.47	92.37	---	93.05	92.16	91.86	---	91.88	92.02	---
31	92.05	---	92.39	92.68	---	92.63	---	91.85	---	91.82	91.94	---
MEAN	---	92.08	92.70	92.78	92.81	93.16	92.89	92.12	---	---	---	---
MAX	---	92.45	93.67	93.90	95.07	98.75	96.23	93.47	92.26	91.88	93.95	92.94
MIN	91.82	91.87	92.08	92.29	92.24	92.20	92.16	91.85	---	---	---	---

NOTE.--Below lowest recordable elevation of 91.80 ft, June 12, 13, June 26 to July 5, July 7-13, 18, 20, 24-29, Aug. 1-14, Sept. 6, 7, 19, 25-30.

SABINE RIVER BASIN

08025606 BAYOU TORO NEAR TOLEDO BEND, NEAR TORO, LA--Continued

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
INSTANTANEOUS OBSERVATIONS AT 0600

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	94.22	92.44	96.13	92.38	92.18	---	---	---	91.83	92.07
2	---	91.84	93.24	92.30	96.13	92.37	92.16	---	91.88	---	91.80	91.92
3	91.80	91.84	92.62	92.22	95.42	92.37	92.14	---	92.16	---	---	91.83
4	91.80	91.82	92.40	92.16	93.38	92.38	92.12	---	92.18	---	---	91.87
5	91.80	91.87	92.28	92.12	93.03	92.42	92.10	---	91.99	---	---	93.14
6	91.80	91.83	92.20	92.10	92.85	92.35	92.10	---	91.90	---	91.80	92.29
7	91.80	91.80	92.13	92.08	92.75	92.35	92.08	---	92.42	---	91.80	92.05
8	91.80	---	92.08	92.68	92.68	92.35	92.07	---	92.88	91.80	91.80	91.92
9	91.81	91.82	92.05	92.42	92.64	92.36	92.07	---	92.47	91.80	---	91.85
10	91.80	91.87	92.02	92.38	92.61	92.33	92.06	---	92.18	---	---	91.83
11	91.85	92.14	92.02	92.27	92.57	92.30	92.07	---	92.02	---	---	91.82
12	92.57	91.97	92.06	92.96	92.54	92.28	92.07	---	91.93	---	---	91.80
13	92.25	91.92	92.06	92.88	94.97	92.27	92.08	---	91.88	---	---	92.08
14	92.04	91.86	93.54	92.76	94.70	92.27	92.07	---	91.84	---	---	92.22
15	91.93	91.83	93.68	92.52	93.48	92.27	92.05	---	91.81	---	92.15	94.17
16	91.87	91.81	92.27	92.37	92.93	92.26	---	---	91.80	---	91.89	93.67
17	91.82	91.80	92.48	95.65	92.77	92.22	---	---	---	---	91.81	92.54
18	91.81	---	92.34	94.65	92.99	92.18	---	---	---	---	91.80	92.26
19	91.80	---	92.27	93.58	93.19	92.16	---	---	---	---	91.80	92.14
20	91.80	---	92.19	93.33	92.88	92.16	---	---	---	---	---	92.05
21	91.80	91.96	92.14	93.04	92.72	92.18	---	---	---	---	---	91.99
22	91.80	92.22	92.12	92.82	92.62	92.84	---	---	---	---	---	91.93
23	91.80	92.03	92.08	92.87	92.55	93.27	---	---	---	---	---	91.89
24	91.80	92.05	92.07	96.07	92.51	92.68	---	---	---	91.81	---	91.86
25	91.80	91.79	92.05	96.98	92.47	92.57	---	---	---	91.81	---	91.83
26	---	91.96	92.04	96.37	92.45	92.56	---	---	---	91.81	91.87	91.82
27	---	91.88	92.03	95.63	92.42	92.42	---	---	---	91.82	---	91.81
28	91.81	91.91	92.02	93.37	92.39	92.33	---	---	---	91.86	---	91.81
29	91.80	92.78	92.08	93.06	---	92.27	---	---	---	91.82	92.53	91.81
30	---	93.92	92.40	92.91	---	92.23	---	---	---	91.82	92.62	91.81
31	---	---	92.70	93.45	---	92.20	---	---	---	91.82	92.36	---
MEAN	---	---	92.38	93.30	93.24	92.37	---	---	---	---	---	92.14
MAX	92.57	93.92	94.22	96.98	96.13	93.27	---	---	92.88	91.86	92.62	94.17
MIN	---	---	92.02	92.08	92.39	92.16	---	---	---	---	---	91.80

NOTE:--Below lowest recordable elevation of 91.80 ft, Oct. 1-2, 26, 27, Oct. 30 to Nov. 1, Nov. 8, 18-20,
May 20 to June 1, June 17 to July 7, July 10-23, Aug. 3-5, 9-14, 20-25, 27, 28.

SABINE RIVER BASIN

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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" 1955-75.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 70.59 ft (21.516 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1958, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair. Flow regulated by Toledo Bend Reservoir (sta 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); 12 years (water years 1967-78) regulated, 4,864 ft³/s (137.7 m³/s), 3,524,000 acre-ft/yr (4.34 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 daily discharge, estimated 9,000 ft³/s (255 m³/s) Mar. 29, gage height unknown; minimum daily, 96 ft³/s (2.72 m³/s) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	140	1610	239	2510	1110	500	1380	2670	2650	2260	2060
2	220	198	951	174	5620	230	300	2890	2450	1720	2300	2050
3	172	172	513	147	5390	2620	1700	1700	1480	1880	2300	2060
4	144	154	329	134	4490	4010	500	1420	199	3810	2270	2080
5	144	159	255	135	4040	3910	192	2980	1090	3920	2040	2370
6	140	146	197	131	4930	1120	174	1740	2320	3770	2200	2250
7	134	139	174	162	4140	343	172	220	3010	3320	2140	2050
8	204	144	151	1050	3970	1900	167	1320	2450	3850	1790	2060
9	140	191	125	547	4040	2760	165	3210	2630	1970	2200	1030
10	131	170	116	279	4000	2970	163	3020	1560	1890	2220	110
11	156	156	102	220	4040	752	181	3010	182	3740	2200	903
12	145	160	114	439	3880	224	937	2990	1080	2880	2160	1850
13	206	146	284	565	5250	1830	329	1690	2430	1860	2170	1970
14	166	139	917	424	5190	4120	366	182	2450	2070	2180	2070
15	145	136	690	296	4710	4900	993	1390	2440	859	2220	2990
16	130	1230	450	382	4900	5850	194	2920	2450	145	2270	2610
17	119	3280	320	1900	5260	7960	167	2830	1490	946	2300	2180
18	118	2760	240	1590	5800	6210	172	2690	142	3020	2250	2680
19	117	1100	187	1190	6360	3690	151	3300	1020	3430	1210	4410
20	111	143	157	835	4890	3610	141	2430	2720	3230	163	4710
21	782	2000	146	615	6510	3060	139	198	2780	2930	1100	4800
22	435	2870	118	483	8280	4500	135	1420	2670	1020	2110	4760
23	153	3500	114	496	5250	6000	133	2720	2240	182	2030	4740
24	148	3910	113	2610	5490	8000	123	2800	1330	154	2100	4730
25	143	3900	106	3830	6160	8500	102	2990	2170	2130	2130	3960
26	135	3750	100	2810	4890	7000	110	3000	4450	1610	1210	3920
27	132	3750	99	2140	3950	7000	254	1680	3770	196	141	5030
28	132	1390	99	1100	3970	8000	185	162	2870	1130	96	2580
29	134	1030	168	681	---	9000	110	1400	2750	1950	235	208
30	131	2250	310	639	---	8500	100	2910	2490	1230	1160	125
31	132	---	264	916	---	5000	---	2950	---	2110	2100	---
TOTAL	7019	39217	9519	27159	137910	134679	9055	65542	64283	65602	55255	79346
MEAN	226	1307	307	876	4925	4344	302	2114	2143	2116	1782	2645
MAX	1720	3910	1610	3830	8280	9000	1700	3300	4450	3920	2300	5030
MIN	111	136	99	131	2510	224	100	162	142	145	96	110
AC-FT	13920	77790	18880	53870	273500	267100	17960	130000	127500	130100	109600	157400

CAL YR 1977 TOTAL 1439874 MEAN 3945 MAX 12000 MIN 99 AC-FT 2856000
WTR YR 1978 TOTAL 694586 MEAN 1903 MAX 9000 MIN 96 AC-FT 1378000

SABINE RIVER BASIN

08026000 SABINE RIVER NEAR BURKEVILLE, TX--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.70	6.38	3.41	7.53	5.50	---	4.91	7.65	7.10	9.58	6.65
2	---	2.97	5.24	3.14	10.85	3.62	---	7.93	7.37	5.59	10.18	6.63
3	---	2.85	4.26	3.01	10.75	7.06	---	6.27	5.91	4.97	9.88	6.64
4	2.83	2.77	3.73	2.94	9.81	9.28	3.68	5.25	3.24	7.96	10.45	6.67
5	2.85	2.79	3.47	2.95	9.33	9.17	3.47	8.05	4.60	7.77	11.72	7.11
6	2.82	2.73	3.24	2.93	10.31	5.52	3.39	6.31	7.20	7.50	12.12	6.92
7	2.79	2.69	---	3.04	9.40	4.02	3.38	3.33	8.18	6.79	12.11	6.62
8	3.12	2.74	---	5.42	9.19	6.32	3.36	4.96	8.06	7.15	7.86	6.67
9	2.83	2.94	---	4.33	9.32	7.85	3.35	8.35	7.62	4.51	6.54	5.02
10	2.78	2.84	---	3.56	9.24	8.15	3.34	8.09	6.01	3.40	6.57	2.81
11	2.90	2.77	---	3.34	9.29	4.90	3.42	8.09	3.16	6.26	6.55	4.26
12	2.85	2.79	---	4.03	9.10	3.60	5.14	8.05	4.54	5.15	6.50	6.52
13	3.13	2.72	2.90	4.40	10.57	6.11	3.81	6.22	7.33	3.62	6.51	6.70
14	2.95	2.69	2.87	4.02	10.53	9.23	3.72	3.16	7.35	3.74	6.52	6.85
15	2.85	2.68	2.65	3.62	10.05	10.17	5.20	4.99	7.34	4.31	6.57	8.17
16	2.77	4.57	3.51	3.81	10.13	10.96	3.23	7.97	7.35	19.49	6.64	7.67
17	2.72	8.23	3.27	6.80	10.55	13.04	3.11	7.87	5.88	13.35	6.69	7.03
18	2.71	7.79	2.52	6.35	11.02	11.56	3.13	7.65	2.97	4.19	6.62	7.52
19	2.70	5.27	2.92	5.68	11.61	8.94	3.03	8.34	4.35	3.89	5.04	9.61
20	2.67	2.98	3.06	5.01	10.30	8.79	2.98	7.20	7.66	3.93	2.73	9.97
21	4.23	6.11	3.01	4.52	11.91	8.25	2.97	3.22	7.81	2.79	4.29	10.07
22	3.67	7.92	2.86	4.19	13.38	---	2.95	4.98	7.68	12.48	6.56	10.02
23	2.76	8.53	2.84	4.22	10.65	---	2.94	7.71	7.03	17.94	6.45	10.00
24	2.74	9.11	2.83	7.54	10.75	---	2.89	7.79	5.63	17.86	6.54	9.98
25	2.71	9.10	2.80	9.22	11.41	---	2.77	8.04	5.87	11.88	6.59	9.19
26	2.67	8.94	2.76	8.03	10.27	---	2.82	8.05	9.69	11.26	5.21	9.05
27	2.65	8.92	2.76	7.15	9.18	---	3.36	6.17	9.01	17.59	2.71	10.32
28	2.65	5.76	2.75	5.51	9.19	---	3.16	3.07	7.86	11.75	2.48	7.39
29	2.66	5.24	3.09	4.68	---	---	2.82	4.91	7.78	8.32	3.15	3.26
30	2.65	7.30	3.67	4.58	---	---	2.76	7.94	7.22	14.23	4.76	2.90
31	2.65	---	3.51	5.18	---	---	---	7.98	---	11.17	6.69	---
MEAN	---	4.91	---	4.73	10.20	---	---	6.54	6.65	8.64	6.86	7.27
MAX	---	9.11	---	9.22	13.38	---	---	8.35	9.69	19.49	12.12	10.32
MIN	---	2.68	---	2.93	7.53	---	---	3.07	2.97	2.79	2.48	2.81

SABINE RIVER BASIN

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08026000 SABINE RIVER NEAR BURKEVILLE, TX--Continued

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. Daily values for the 1978 water year are available from the Texas Report.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CACO3)
OCT 13...	0815	172	7.0	15.0	40	10	8.8	90	1.1	31	5
DEC 20...	1600	120	7.1	12.0	60	20	6.3	61	.6	25	7
FEB 23...	1438	211	7.4	9.0	20	10	12.2	109	.7	41	14
APR 25...	1445	150	7.1	24.5	40	20	9.2	112	1.3	30	5
JUL 05...	1720	200	6.4	29.0	20	10	7.2	95	.8	90	62
AUG 17...	1535	240	6.8	30.0	20	5	7.6	101	.9	44	14

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AN- ION- RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT 13...	7.8	2.8	19	55	1.5	2.5	32	0	26	5.1
DEC 20...	6.6	2.0	12	49	1.1	2.2	22	0	18	2.8
FEB 23...	10	3.8	21	51	1.4	3.1	32	0	26	2.0
APR 25...	7.5	2.8	16	51	1.3	2.5	31	0	25	3.9
JUL 05...	25	6.7	36	46	1.7	2.7	34	0	28	22
AUG 17...	11	3.9	20	48	1.3	3.0	36	0	30	9.1

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDEED (MG/L)	SOLIDS, VOLA- TILE, SUS- PENDEED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT 13...	13	24	.1	15	100	.14	13	0	.02	.00
DEC 20...	11	15	.1	18	78	.11	18	1	.04	--
FEB 23...	19	30	.1	7.1	110	.15	13	3	.11	.01
APR 25...	12	21	.1	16	93	.13	10	10	.01	.01
JUL 05...	18	35	.1	7.1	148	.20	61	21	.02	.00
AUG 17...	19	30	.1	6.6	112	.15	13	9	.01	.00

SABINE RIVER BASIN

08026000 SABINE RIVER NEAR BURKEVILLE, TX--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO- GEN. NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN. AMMONIA TOTAL (MG/L AS N)	NITRO- GEN. ORGANIC TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN. TOTAL (MG/L AS N)	NITRO- GEN. TOTAL (MG/L AS NO ₃)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 13...	.02	.03	.24	.27	.29	1.3	.02	1	0	0
DEC 20...	--	--	.74	--	.83	3.7	--	1	0	0
FEB 23...	.12	.01	.39	.40	.52	2.3	.03	--	--	--
APR 25...	.02	.04	.45	.49	.51	2.3	.04	--	--	--
JUL 05...	.02	.00	.48	.48	.50	2.2	.02	2	--	0
AUG 17...	.01	.02	.32	.34	.35	1.6	.03	1	100	0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 13...	0	0	30	0	220	.0	0	0	10	4.2
DEC 20...	0	1	140	0	160	.0	0	0	10	6.9
FEB 23...	--	--	--	--	--	--	--	--	--	6.6
APR 25...	--	--	--	--	--	--	--	--	--	5.0
JUL 05...	10	4	20	0	0	.0	0	0	10	5.0
AUG 17...	0	0	390	0	0	.0	0	0	10	5.3

SABINE RIVER BASIN

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08028000 BAYOU ANACOCO NEAR ROSEPINE, LA

LOCATION.--Lat 30°57'10", long 93°21'10", on line between secs. 25 and 26, T.1 S., R.10 W., Vernon Parish, Hydrologic Unit 12010005, near center of span on downstream side of bridge on parish road from Rosepine to Evans, just downstream from Pocosin Creek, and 4.8 mi (7.7 km) northwest of Rosepine.

DRAINAGE AREA.--365 mi² (945 km²).

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--SWP 2122: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 118.09 ft (35.994 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 11, 1954, nonrecording gage at same site and datum.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. 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 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--27 years, 429 ft³/s (12.15 m³/s), 15.96 in/yr (405 mm/yr), 310,800 acre-ft/yr (383 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, 3,470 ft³/s (98.3 m³/s) Jan. 25, gage height, 18.18 ft (5.541 m) from flood mark; minimum discharge, 6.4 ft³/s (0.18 m³/s) Aug. 21, gage height, 2.80 ft (0.853).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	16	25	2090	353	2400	251	158	41	23	19	32	129		
2	18	110	1760	300	2930	229	142	40	204	20	27	100		
3	34	113	981	220	3100	236	129	61	203	18	21	83		
4	39	69	679	180	2420	221	121	66	105	16	17	85		
5	35	47	517	170	1430	194	114	54	72	15	14	88		
6	26	38	415	159	1010	189	108	45	53	16	15	79		
7	21	34	311	164	795	559	102	50	1230	15	16	69		
8	20	48	238	1710	679	632	98	61	1690	14	19	58		
9	48	220	212	1420	569	441	92	67	993	16	12	56		
10	69	171	198	800	510	347	89	71	492	14	9.7	57		
11	62	83	149	440	448	291	123	58	314	12	10	53		
12	70	52	128	400	411	262	131	45	291	15	9.3	58		
13	40	41	948	600	1370	237	112	35	227	15	9.0	52		
14	30	35	2310	520	1890	229	102	30	167	12	10	65		
15	25	32	1530	340	1660	212	88	27	120	14	32	204		
16	23	30	798	360	1090	194	81	26	90	38	26	358		
17	20	29	559	1000	823	164	77	28	71	25	19	354		
18	19	28	432	1900	771	147	74	34	58	18	15	307		
19	18	27	343	1500	717	133	71	30	50	14	12	289		
20	18	27	293	1200	614	129	67	26	44	13	9.5	286		
21	17	55	238	800	515	168	63	24	38	23	8.4	236		
22	17	145	163	600	426	382	60	23	34	20	11	173		
23	20	111	150	680	346	407	56	22	31	25	13	133		
24	35	73	130	1500	313	887	54	22	28	34	12	100		
25	34	56	115	3300	295	698	52	20	26	84	12	78		
26	30	54	112	2000	283	559	49	20	25	65	11	62		
27	36	45	109	1500	255	388	47	18	24	46	10	50		
28	32	42	107	1200	254	302	46	18	22	75	18	44		
29	28	378	146	1000	---	248	44	22	21	76	197	38		
30	25	2090	348	1050	---	210	42	29	19	59	243	35		
31	23	---	450	1050	---	185	---	23	---	41	185	---		
TOTAL	948	4308	16959	28416	28324	9931	2592	1136	6765	887	1054.9	3779		
MEAN	30.6	144	547	917	1012	320	86.4	36.6	226	28.6	34.0	126		
MAX	70	2090	2310	3300	3100	898	158	71	1690	84	243	358		
MIN	16	25	107	159	254	129	42	18	19	12	8.4	35		
CFSM	.08	.39	1.50	2.51	2.77	.88	.24	.10	.62	.08	.09	.35		
IN.	.10	.44	1.73	2.90	2.89	1.01	.26	.12	.69	.09	.11	.39		
AC-FT	1880	8540	33640	56360	56180	19700	5140	2250	13420	1760	2090	7500		
CAL YR 1977	TOTAL	117749.0	MEAN	323	MAX	3000	MIN	13	CFSM	.88	IN	12.00	AC-FT	233600
WTR YR 1978	TOTAL	105099.9	MEAN	288	MAX	3300	MIN	8.4	CFSM	.79	IN	10.71	AC-FT	208500

SABINE RIVER BASIN

08028000 BAYOU ANACOCO NEAR ROSEPINE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.84	2.93	13.43	5.41	---	4.78	4.15	---	2.96	2.91	3.08	3.95
2	2.85	3.72	12.01	5.09	16.68	4.63	4.03	---	4.42	2.92	3.02	3.71
3	3.03	3.75	8.59	---	16.87	4.68	3.94	3.35	4.45	2.90	2.96	3.56
4	3.08	3.36	7.15	---	14.69	4.57	3.87	3.40	3.74	2.88	2.91	3.58
5	3.04	3.17	6.32	---	10.55	4.40	3.82	---	3.44	2.87	2.88	3.61
6	2.94	3.07	5.77	4.15	8.72	4.35	3.76	---	3.28	2.88	2.89	3.53
7	2.89	3.02	5.15	4.19	7.71	6.49	3.71	---	9.32	2.87	2.80	3.43
8	2.88	3.15	4.69	11.75	7.15	6.91	3.68	---	11.69	2.86	2.93	3.34
9	3.16	4.55	4.51	10.55	6.59	5.91	3.62	3.40	8.62	2.88	2.86	3.32
10	3.37	4.21	4.41	---	6.29	5.37	3.59	3.44	6.18	2.86	2.83	3.33
11	3.31	3.49	4.05	---	5.96	5.03	3.88	---	5.17	2.84	2.84	3.30
12	3.38	3.21	3.89	---	5.75	4.85	3.95	---	5.03	2.87	2.83	3.34
13	3.09	3.10	7.96	---	10.29	4.69	3.80	---	4.62	2.87	2.82	3.28
14	2.98	3.04	14.36	---	12.58	4.63	3.71	---	4.20	2.84	2.84	3.40
15	2.93	3.00	11.02	---	11.55	4.51	3.58	---	3.86	2.86	3.08	4.46
16	2.91	2.98	7.72	---	9.09	4.40	3.53	3.01	3.61	3.12	3.01	5.43
17	2.88	2.98	6.54	---	7.84	4.19	3.49	3.01	3.44	2.98	2.93	5.41
18	2.87	2.96	5.87	---	7.59	4.07	3.46	3.07	3.32	2.90	2.89	5.13
19	2.86	2.95	5.35	---	7.33	3.97	3.44	3.03	3.25	2.85	2.85	5.02
20	2.85	2.94	5.04	---	6.82	3.94	3.40	2.98	3.18	2.86	2.83	5.00
21	2.84	3.23	4.69	---	6.31	4.22	---	2.96	3.12	2.97	2.82	4.68
22	2.84	4.02	4.18	---	5.83	5.57	---	2.95	3.08	2.93	2.85	4.25
23	2.88	3.74	4.09	---	5.37	5.72	---	2.94	3.05	2.99	2.87	3.98
24	3.04	3.41	3.95	---	5.16	8.10	---	2.94	3.01	3.08	2.86	3.71
25	3.02	3.25	3.83	---	5.05	8.20	---	2.92	2.99	3.56	2.86	3.52
26	2.99	3.24	---	---	4.98	6.54	---	2.93	2.98	3.39	2.85	3.37
27	3.04	3.14	---	---	4.81	5.61	---	2.90	2.97	3.22	2.84	3.27
28	3.00	3.12	3.77	---	4.80	5.10	---	2.90	2.94	3.49	2.92	3.20
29	2.96	5.21	4.06	---	---	4.76	---	2.95	2.94	3.50	4.40	3.14
30	2.93	13.44	5.37	---	---	4.50	---	3.03	2.92	3.35	4.73	3.10
31	2.90	---	5.97	---	---	4.33	---	2.96	---	3.17	4.33	---
MEAN	2.99	3.71	---	---	---	5.13	---	---	4.26	3.02	3.05	3.85
MAX	3.38	13.44	14.36	---	16.87	8.20	4.15	3.44	11.69	3.56	4.73	5.43
MIN	2.84	2.93	3.77	4.15	4.80	3.94	---	2.90	2.92	2.84	2.82	3.10

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) National Geodetic Vertical Datum of 1929. Prior to July 8, 1931, nonrecording gage at site 0.8 mi (1.3 km) downstream. July 8, 1931, to Oct. 15, nonrecording gage at present site. Oct. 16, 1958, to Sept. 30, 1975, water-stage recorder at present site. Prior to Oct. 1, 1975, all gages at datum 3.00 ft (0.914 m) higher.

REMARKS.--Water-discharge records fair. Flow regulated by Toledo Bend Reservoir (sta 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 (6.12 km³/yr); 12 years (water years 1967-78) regulated, 5,855 ft³/s (165.8 m³/s), 4,242,000 acre-ft/yr (5.23 km³/s 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, 11,700 ft³/s (331 m³/s) Jan. 25, gage height, 14.14 ft (4.310 m); minimum daily, 359 ft³/s (10.2 m³/s) Oct. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4900	365	7160	1380	4820	4530	5500	470	3360	2980	1370	2600
2	1680	440	4880	1220	7770	2380	2070	1520	3150	3040	2190	2550
3	716	605	3360	1090	9700	1600	1230	3010	3110	2100	2260	2470
4	549	613	2290	993	8530	3530	2140	2000	2300	2340	2240	2580
5	540	511	1780	927	7010	4530	1470	2030	1160	3840	2240	2550
6	506	457	1490	883	5860	4420	996	3190	2580	3930	2140	2730
7	476	426	1290	863	5840	2390	918	2080	4690	3860	2230	2580
8	447	407	1160	2710	5320	2190	884	960	7590	3670	2200	2390
9	485	484	1060	4710	5180	3370	855	1920	5680	3930	2220	2370
10	487	717	989	2950	5060	3820	836	3500	4390	2320	2240	1640
11	634	683	945	1870	4970	3770	866	3440	2790	2230	2270	834
12	739	544	884	1680	4950	2140	935	3430	1480	3710	2260	1140
13	583	471	1410	2200	6050	1540	1500	3410	1980	2900	2220	2200
14	541	428	6720	2080	7840	2680	1150	2160	3110	2210	2250	2420
15	502	406	5960	1740	7240	4820	1010	939	3070	2330	2240	2680
16	449	392	3700	1680	6290	5290	1460	1880	3010	1520	2280	3430
17	415	1110	2390	3240	6210	6940	826	3280	2940	790	2330	3290
18	395	2930	1790	4590	6470	8030	703	3220	2060	1150	2350	2950
19	384	2640	1470	4380	7020	5410	675	3190	945	3270	2280	3510
20	376	1390	1290	3750	7100	4190	635	3910	1460	3080	1570	4950
21	368	644	1150	3010	6340	4220	601	2590	3070	3360	686	5400
22	618	2120	1060	2470	7360	3670	585	985	3110	2990	1120	5420
23	732	3110	978	2250	7910	4950	580	1820	2980	1670	2140	5260
24	461	3800	927	4940	5770	7560	568	3060	2700	839	2140	5190
25	449	4050	883	11200	6160	9250	548	3230	1090	719	2200	5170
26	420	3970	854	9450	6640	7990	507	3390	2420	2210	2250	4400
27	395	3880	820	7430	5230	6750	481	3390	4900	2100	1610	4590
28	377	3920	792	6410	4630	6520	543	2130	3990	892	791	5220
29	370	2530	806	4680	---	7870	648	885	3470	1290	828	2800
30	363	6180	978	3230	---	8060	498	1790	3190	2150	1170	1010
31	359	---	1350	3290	---	8190	---	3250	---	1700	1790	---
TOTAL	20716	50223	62616	103296	179270	152600	32218	76059	93075	75120	60105	96324
MEAN	668	1674	2020	3332	6403	4923	1074	2454	3103	2423	1939	3211
MAX	4900	6180	7160	11200	9700	9250	5500	3910	7590	3930	2350	5420
MIN	359	365	792	863	4630	1540	481	470	945	719	686	834
AC-FT	41090	99620	124200	204900	355600	302700	63900	150900	184600	149000	119200	191100
CAL YR 1977 TOTAL	1727513	MEAN	4733	MAX	17900	MIN	359	AC-FT	3427000			
WTR YR 1978 TOTAL	1001622	MEAN	2744	MAX	11200	MIN	359	AC-FT	1987000			

SABINE RIVER BASIN

08028500 SABINE RIVER NEAR BON WIER, TX--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.80	10.76	---	8.62	8.36	9.46	3.12	7.16	6.66	4.51	6.36
2	---	3.03	8.70	---	11.27	6.03	6.02	4.87	6.94	6.75	5.87	6.15
3	---	3.48	7.17	---	12.73	4.99	4.77	7.08	6.89	5.69	5.95	6.21
4	3.37	3.51	5.94	---	11.87	7.28	6.10	5.81	5.92	5.82	5.92	6.29
5	3.32	3.24	5.25	---	10.64	8.36	5.15	5.70	4.25	7.67	5.92	6.19
6	3.23	3.09	4.81	---	9.63	8.25	4.33	7.18	6.22	7.81	5.80	6.32
7	3.14	2.99	4.48	---	9.60	6.05	4.18	5.82	8.46	7.74	5.92	6.20
8	3.06	2.93	4.25	---	9.13	5.82	4.11	4.06	11.12	7.54	5.82	6.05
9	3.16	3.16	4.06	---	8.99	7.17	4.05	5.29	9.46	7.82	5.85	5.92
10	3.17	3.75	3.92	---	8.88	7.65	4.01	7.32	8.23	6.03	5.87	5.06
11	3.55	3.67	3.83	---	8.79	7.59	4.07	7.25	6.51	5.88	5.92	3.52
12	3.80	3.33	3.71	---	8.77	5.74	4.21	7.24	4.79	7.58	5.90	4.08
13	3.43	3.13	3.82	---	9.78	4.89	5.19	7.22	5.41	6.72	5.85	5.82
14	3.32	3.00	---	---	11.32	---	4.62	5.71	6.90	5.86	5.89	6.10
15	3.21	2.93	---	---	10.83	---	4.33	3.81	6.86	6.04	5.88	6.41
16	3.06	2.89	---	---	10.01	4.29	5.14	5.12	6.78	4.94	5.93	7.17
17	2.96	3.90	---	---	9.94	10.57	3.99	7.08	6.72	3.51	5.99	7.05
18	2.90	6.88	---	---	10.17	11.47	3.72	7.02	5.58	4.10	6.01	6.69
19	2.86	6.64	---	---	10.64	9.18	3.66	6.98	3.83	6.98	5.93	7.31
20	2.83	4.93	---	---	10.71	8.02	3.56	7.73	4.39	6.92	4.93	8.76
21	2.81	3.58	---	---	10.06	8.06	3.48	6.24	6.84	7.17	3.27	9.20
22	3.26	5.76	---	---	10.94	7.50	3.44	3.90	6.90	6.77	3.99	9.22
23	3.77	7.00	---	5.56	11.35	8.77	3.43	5.03	6.76	5.09	5.74	9.07
24	3.10	7.62	---	8.61	9.54	11.08	3.39	6.85	6.43	3.67	5.74	8.91
25	3.06	7.88	---	13.80	9.89	12.40	3.34	7.02	5.35	3.36	5.82	8.88
26	2.98	7.63	---	12.55	10.31	11.41	3.23	7.19	6.28	5.55	5.89	8.19
27	2.90	7.71	---	10.99	9.03	10.41	3.16	7.20	8.51	5.68	4.99	8.40
28	2.84	7.75	---	10.12	8.45	10.21	3.32	5.67	7.65	3.77	3.51	9.03
29	2.82	6.21	---	8.50	---	11.33	3.59	3.71	7.14	4.36	3.60	6.47
30	2.79	9.87	---	7.03	---	11.49	3.20	4.98	6.88	5.82	4.27	3.96
31	2.78	---	---	7.10	---	11.60	---	7.04	---	5.13	5.18	---
MEAN	---	4.81	---	---	10.07	---	4.28	6.01	6.71	5.95	5.41	6.83
MAX	---	9.87	---	---	12.73	---	9.46	7.73	11.12	7.82	6.01	9.22
MIN	---	2.80	---	---	8.45	---	3.16	3.12	3.83	3.36	3.27	3.52

SABINE RIVER BASIN

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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. Daily values for the 1978 water year are available from the Texas Report.

WATER QUALITY DATA: WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT						
07...	0825	297	22.0	20	37	35
14...	0820	251	16.0	130	32	28
21...	0820	223	21.0	70	26	27
28...	0805	265	21.0	80	37	33
NOV						
02...	1740	239	17.0	50	15	25
08...	0850	275	20.0	120	40	30
15...	0915	248	16.0	120	37	26
22...	0840	170	17.0	40	14	24
DEC						
07...	1700	164	12.0	140	23	15
14...	1650	52	14.0	140	5.2	6.2
21...	1445	145	6.0	100	18	16
28...	1315	303	11.0	80	6.0	15
JAN						
07...	0920	190	15.0	100	28	20
14...	1010	108	6.0	110	14	12
21...	1200	85	5.0	140	11	10
28...	1040	52	7.0	140	6.8	6.4
FEB						
01...	1635	58	6.0	100	18	29
07...	0625	168	7.0	30	12	16
14...	1000	115	9.0	70	15	26
21...	1755	192	8.0	50	7.2	7.4
MAR						
07...	0810	202	11.0	40	20	29
14...	0800	180	15.0	60	22	23
21...	0810	201	15.0	30	17	31
28...	0815	200	13.0	30	18	31
APR						
07...	0810	220	21.0	70	30	26
14...	0805	199	19.0	60	28	24
21...	1720	227	--	70	32	26
28...	0725	188	23.0	70	24	23
MAY						
07...	1005	216	21.0	30	24	33
14...	1050	206	22.0	30	18	32
21...	0930	207	25.0	20	20	33
28...	0820	207	25.0	30	16	33
JUN						
07...	0945	177	24.0	60	24	10
14...	0735	227	26.5	70	34	32
21...	1820	208	30.0	20	23	32
28...	0810	222	26.5	20	25	34
JUL						
07...	1820	215	31.0	20	30	33
14...	0800	228	29.0	30	28	34
21...	0815	231	28.0	40	24	34
JUL						
28...	0830	257	27.0	70	37	31
AUG						
07...	0800	213	27.0	20	20	29
14...	0830	224	28.0	20	23	35
21...	1745	258	32.0	60	30	36
28...	0810	241	27.5	30	26	34

SABINE RIVER BASIN

08028700 HOOSIER CREEK NEAR MERRYVILLE, LA

LOCATION.--Lat 30°43'32", long 93°33'36", in SE $\frac{1}{4}$ 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) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records of dissolved oxygen and water temperatures for water year 1978 are published under miscellaneous water-quality sites in this report.

AVERAGE DISCHARGE.--23 years, 13.8 ft³/s (0.391 m³/s), 14.31 in/yr (363 mm/yr), 10,000 acre-ft/yr (12.3 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: Jan. 24 (1400) 744 ft³/s (21.1 m³/s), gage height, 9.46 ft (2.883 m); minimum discharge, 1.5 ft³/s (0.042 m³/s) July 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.6	60	4.0	101	5.5	4.1	2.3	2.0	1.6	2.1	8.5
2	2.4	10	15	3.8	91	5.1	4.0	2.5	2.1	1.6	2.0	10
3	2.4	10	8.6	3.7	28	5.2	3.9	2.7	2.6	1.6	2.0	62
4	2.4	3.9	5.9	3.7	17	5.2	3.8	2.5	5.4	1.6	2.0	92
5	2.4	3.0	4.7	3.6	12	4.8	3.7	2.3	3.0	1.6	1.9	16
6	2.4	2.7	4.0	3.5	9.7	4.7	3.7	2.3	2.5	1.6	2.0	4.
7	2.4	2.6	3.4	3.6	9.3	7.7	3.6	2.4	51	1.6	1.9	2.8
8	2.4	3.4	3.3	4.4	14	11	3.5	2.3	42	1.6	1.9	2.4
9	2.3	8.8	3.2	5.2	15	7.6	3.4	2.2	4.5	1.6	1.9	2.3
10	2.4	6.7	3.1	4.1	18	5.9	3.3	2.2	2.5	1.5	1.9	2.3
11	2.6	3.2	2.9	3.5	14	5.4	4.0	2.1	2.1	1.5	1.9	2.2
12	3.5	2.6	2.9	5.6	13	5.1	4.4	2.0	2.1	1.5	1.9	2.2
13	2.9	2.4	40	7.0	58	5.0	3.7	2.0	2.2	1.5	1.9	2.1
14	2.6	2.3	193	4.9	28	5.2	3.4	2.0	2.0	1.6	1.9	2.1
15	2.5	2.2	24	3.9	13	4.9	3.1	2.0	1.9	1.5	1.9	2.1
16	2.4	2.1	12	4.7	9.7	4.6	2.9	2.0	1.9	1.6	1.9	2.0
17	2.4	2.2	8.1	30	8.6	4.2	2.9	2.0	1.8	1.5	1.9	2.0
18	2.4	2.2	6.3	15	18	4.2	2.9	2.0	1.8	1.5	1.9	1.9
19	2.4	2.1	5.2	16	17	4.2	2.7	2.0	1.8	1.6	1.9	1.9
20	2.3	2.1	4.7	21	10	4.4	2.6	2.0	1.7	1.8	1.9	2.4
21	2.3	2.7	4.3	11	8.2	4.6	2.6	1.9	1.7	1.8	1.9	7.0
22	2.3	7.0	4.0	8.3	6.9	5.3	2.6	1.9	1.7	1.8	1.8	7.6
23	2.4	4.5	3.8	14	6.3	5.0	2.5	1.9	1.7	4.6	1.8	2.8
24	2.4	3.2	3.8	387	6.1	7.2	2.5	1.9	1.7	5.8	1.8	2.2
25	2.6	2.8	3.8	263	5.9	9.0	2.4	1.9	1.7	5.1	1.9	2.0
26	2.8	2.9	3.6	62	5.8	6.0	2.4	1.9	1.6	25	1.9	1.9
27	2.6	3.1	3.4	25	5.4	5.0	2.3	1.9	1.6	6.7	1.8	1.9
28	2.5	6.7	3.4	25	5.4	4.7	2.3	1.9	1.6	3.0	3.5	1.9
29	2.4	29	6.0	24	---	4.4	2.3	2.0	1.6	2.5	25	1.9
30	2.4	154	5.0	17	---	4.3	2.3	2.1	1.6	2.2	9.6	1.8
31	2.4	---	4.5	28	---	4.2	---	2.2	---	2.1	2.7	---
TOTAL	77.0	293.0	455.9	1015.5	554.3	169.6	93.8	65.3	153.4	92.1	92.3	254.3
MEAN	2.48	9.77	14.7	32.8	19.8	5.47	3.13	2.11	5.11	2.97	2.98	8.48
MAX	3.5	154	193	387	101	11	4.4	2.7	51	25	25	92
MIN	2.3	2.1	2.9	3.5	5.4	4.2	2.3	1.9	1.6	1.5	1.8	1.8
CFSM	.19	.75	1.12	2.50	1.51	.42	.24	.16	.39	.23	.23	.65
IN.	.22	.83	1.29	2.88	1.57	.48	.27	.19	.44	.26	.26	.72
AC-FT	153	581	904	2010	1100	336	186	130	304	183	183	504
CAL YR 1977	TOTAL	3615.6	MEAN	9.91	MAX	248	MIN	1.8	CFSM	.76	IN	10.27
WTR YR 1978	TOTAL	3316.5	MEAN	9.09	MAX	387	MIN	1.5	CFSM	.69	IN	9.42
									AC-FT	7170	AC-FT	6580

SABINE RIVER BASIN

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08028700 HOOSIER CREEK NEAR MERRYVILLE, LA--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.61	3.26	---	4.11	1.08	.84	.66	.63	.57	.63	1.19
2	.59	1.18	1.63	---	4.03	1.05	.84	.70	.64	.57	.62	1.38
3	.59	1.25	1.30	---	2.17	1.05	.83	.74	.75	.57	.62	3.29
4	.59	.82	1.13	.92	1.73	1.05	.82	.72	1.09	.56	.61	4.14
5	.59	.72	1.04	.91	1.52	1.02	.82	.68	.83	.56	.60	1.67
6	.59	.68	.95	.90	1.40	1.00	.81	.68	.74	.56	.60	1.02
7	.58	.66	.89	.91	1.33	1.19	.80	.70	2.86	.56	.60	.85
8	.58	.76	.87	1.00	1.61	1.40	.79	.69	2.62	.56	.59	.78
9	.57	1.22	.86	1.08	1.66	1.20	.78	.66	1.07	.56	.59	.76
10	.58	1.11	.84	.96	1.78	1.09	.78	.64	.82	.56	.58	.74
11	.63	.80	.82	.90	1.58	1.04	.86	.63	.75	.55	.58	.73
12	.76	.71	.81	1.10	1.53	1.02	.92	.62	.75	.55	.57	.72
13	.68	.68	2.30	1.21	3.20	1.00	.84	.61	.75	.56	.57	.70
14	.63	.66	5.43	1.05	2.18	1.01	.80	.61	.70	.56	.58	.69
15	.61	.64	2.00	.95	1.57	.99	.76	---	.68	.56	.58	.69
16	.59	.63	1.46	1.01	1.39	.94	.74	.61	.66	.56	.57	.68
17	.58	.63	1.28	2.21	1.33	.91	.74	.61	.64	.56	.57	.67
18	.58	.64	1.16	1.59	1.76	.90	.73	.61	.63	.55	.57	.65
19	.58	.62	1.08	1.66	1.70	.90	.72	.61	.63	.57	.57	.65
20	.57	.62	1.04	1.88	1.41	.91	.70	.61	.62	.64	.57	.73
21	.57	.73	.99	1.41	1.29	.93	.69	.60	.61	.62	.57	1.21
22	.56	1.18	.96	1.29	1.22	.99	.69	.59	.61	.63	.57	1.25
23	.59	.98	.94	1.56	1.18	.96	.69	.59	.60	.93	.56	.85
24	.59	.82	.94	6.88	1.15	1.11	.68	.59	.59	1.18	.56	.73
25	.63	.78	.94	6.32	1.13	1.23	.67	.59	.59	1.07	.57	.68
26	.66	.79	.91	3.32	1.12	1.03	.67	.59	.59	2.05	.57	.65
27	.63	.81	.89	2.03	1.09	.94	.66	.59	.58	1.14	.57	.63
28	.61	1.12	.89	2.07	1.09	.90	.66	.59	.58	.84	.76	.62
29	.60	2.14	---	2.00	---	.88	.66	.61	.58	.74	1.98	.62
30	.59	5.27	---	1.73	---	.87	.66	.64	.58	.68	1.31	.61
31	.59	---	---	2.17	---	.86	---	.68	---	.65	.79	---
MEAN	.60	1.01	---	---	1.72	1.01	.76	---	.83	.70	.66	1.02
MAX	.76	5.27	5.43	6.88	4.11	1.40	.92	.74	2.86	2.05	1.98	4.14
MIN	.56	.61	.81	.90	1.09	.86	.66	.59	.58	.55	.56	.61

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 time of drought or flood to give better areal coverage to those events. Those measurements and other 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 1978

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					
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.	*73	1969-78	1978	<36.00	(†)
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	1954-68, 1974-78	1978	<36.50	(†)
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	1966-78	5- 7-78	42.92	(†)
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	1954-68, 1974-78	5- 7-78	45.57	1,540
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	1963-78	5- 7-78	42.25	3,600
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, 1973-78	8-23-73 5- 7-78	all.32 15.85	(†) (†)
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	1960-78	5- 7-78	154.19	(†)
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.	*66	1939-57‡, 1958-78	5- 7-78	11.75	10,000
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	1966-78	5- 7-78	13.97	(†)
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‡, 1969-78	5- 7-78	9.53	272
07351980	Saline Bayou near Bienville, La.	Lat 32°24'10", long 92°56'45", Bienville Parish, at bridge on parish road 1.0 miles (1.6 km) upstream from Bear Creek, and 4.0 miles (6.4 km) northeast of Bienville.	54.9	1966-78	5- 8-78	44.64	2,000
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, 1974-78	5- 7-78	14.89	755
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	1968-78	5- 7-78	46.17	(†)

See footnotes at end of the table.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1978--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual		
					Date	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, 1974-78	5- 7-78	44.30	(†)
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‡, 1958-78	5- 8-78	9.59	3,100
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	1964-78	1-24-78	42.92	(†)
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	1966-78	1-24-78	19.55	1,260
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	1966-78	5- 9-78	44.66	4,690
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.	*30	1954-68, 1974-78	5- 7-78	45.67	1,000
07364870	Sugar Creek near Arcadia, La.	Lat 32°41'20", long 92°51'30", Claiborne-Lincoln Parish line, at bridge on State Highway 146, and 10.3 miles (16.6 km) northeast of Arcadia.	*47	1966-78	5- 7-78	45.18	3,000
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, 1974-78	5- 7-78	45.32	1,640
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‡, 1957-78	5- 9-78	15.45	7,220
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.	*29	1954-68, 1974-78	5- 7-78	46.12	2,160
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	1966-78	5- 8-78	43.44	5,550
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.	*38	1954-68, 1974-78	3-21-55 4- 5-56 3-31-61 12-20-61 4-30-64 2-10-66 4- 4-68 7-10-75 5- 8-78	45.89 43.68 43.80 44.18 43.44 44.83 43.98 44.96 45.03	a6,100 a1,770 a1,900 a2,380 a1,500 a3,450 a2,120 a3,750 a3,950
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.	*16	1954-68, 1974-78	9-16-78	47.02	(†)
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.	62.0	1975-78	1978	<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	1966-78	3-21-78	40.50	4,000
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	1966-78	5- 8-78	45.72	(†)
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, 1974-78	5- 7-78	11.42	6,730

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 1978--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							
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, 1975-78	--	--	(†)
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	1966-78	5- 7-78	47.54	4,300
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.	*58	1954-68, 1974-78	5- 7-78	42.45	2,800
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	1954-78	5- 7-78	39.76	1,400
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	1964-78	5- 8-78	41.75	1,870
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	1966-78	5- 7-78	44.44	(†)
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	1966-78	1978	41.95	3,500
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.	*20	1964-78	5- 7-78	46.87	2,300
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.	*24	1964-78	1-30-78	42.47	700
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.	*11	1954-78, 1975-78	1-24-78	42.33	(†)
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.	*12	1964-78	1- 6-78	41.22	(†)
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	1964-78	12- 2-77	47.07	2,230
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, 1975-78	9-14-78	14.73	(†)
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, 1975-78	6- 7-78	15.91	(†)
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	1954-78	10-11-77	16.70	(†)
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	1965-78	11-30-77	15.90	1,740
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‡, 1966-78	11-30-77	13.88	5,200

See footnotes at end of the table.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1978--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Cage height (feet)	Dis-charge (ft ³ /s)
Calcasieu River basin--Continued							
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†, 1966-78	1-25-78	13.50	3,000
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	1964-78	1-24-78	11.35	(†)
08015200	Dry Creek at Dry Creek, La.	Lat 30°39'25", long 93°02'45", Beauregard Parish, at bridge on State Highway 115, and 1.0 mile (1.6 km) south of Dry Creek.	42.7	1954-68, 1975-78	12- 2-77	23.06	(†)
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, 1977-78	12- 2-77	18.26	(†)
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†, 1958-78	12- 2-77	25.95	5,920
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, 1975-78	5- 7-78	16.17	(†)
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	1964-78	9-14-78	10.31	(†)
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, 1975-78	1-19-78	9.17	600
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†, 1969-78	1978	<9.58	(†)
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	1966-78	1978	<4.00	(†)
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	1966-78	1-24-78	17.52	(†)
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, 1974-78	1-24-78	11.87	920
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, 1974-78	1-24-78	42.09	1,580
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, 1975-78	1-24-78	15.26	(†)

* Approximately.

< Less than amount shown.

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Not previously published.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

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 1978

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation, in feet (NGVD)
		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.	(†)	1962-78	1978	<151.2
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.	(†)	1963-78	1978	<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.	(†)	1963-78	5- 7-78	*48.80
07349363	Macks Bayou tribu- tary 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.	(†)	1963-78	5- 7-78	165.08
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.	(†)	1963-78	5- 7-78	159.09
07349368	Macks Bayou tribu- tary 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.	(†)	1963-78	1978	<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.	(†)	1966-78	5- 7-78	161.64
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	1960-62‡, 1963-78	1978	<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	1960-78	1978	<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	1960-65‡, 1966-78	1978	200.50
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.	(†)	1963-78	1978	<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.	(†)	1963-78	1978	<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.	(†)	1963-78	1978	<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	1960-62‡, 1963-78	5- 8-78	144.86
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	1960-78	1978	<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	1961-78	1978	<130.8
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	1960-78	1978	<128.4

See footnotes at end of the table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1978--Continued

						Flood peak
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation, in feet (NGVD)
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.	(†)	1960-78	5- 7-78	159.04
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.	a19	1960-65†, 1967-78	5- 7-78	151.43
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, 1965-78	5- 7-78	*42.7
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.	(†)	1963-78	5- 7-78	156.50
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	1960-78	5- 7-78	142.64
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.	a3.4	1960-78	5- 8-78	188.99
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	1960-65†, 1966-78	5- 7-78	125.41
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	1950-65†, 1966-78	5- 7-78	<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	806	1950-78	5- 7-78	<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.	(b)	1960-78	1978	<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	1960-65†, 1966-78	5- 8-78	178.61
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.	(b)	1960-78	5-15-78	102.02
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	1960-65†, 1966-78	1978	<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.	582	1960-78	1978	<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.	(†)	1960-78	1-10-78	79.19
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.	(†)	1963-64, 1967-78	1978	<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.	(††)	1963-78	1978	<73.91

See footnotes at end of the table.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1978--Continued

						Flood peak
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation, in feet (NGVD)
Red River basin--Continued						
07366365	Bayou D'Arbonne below dam near Downsville, La.	Lat 32°42'46", long 92°20'26", Union Parish, on downstream side of dam at left end, 7.4 miles (11.9 km) north- east of Downsville.	(†)	1978	5-07-78	70.78
07367030	Black Bayou at West Monroe, La.	Lat 32°29'55", long 92°08'30", Ouachita Parish, on downstream side of bridge at Interstate 20-State Highway 34 exit in West Monroe.	(†)	1978	9-15-78	*42.12
07367500	Cheniere Brake near Bawcomville, La.	Lat 32°27'10", long 92°11'29", Ouachita Parish, on downstream side of bridge on State Highway 3033, 1.5 miles (2.4 km) southwest of Bawcomville.	(†)	1944-45c, 1978	1978	<*38.00
07367502	Cheniere Creek south of Bawcomville, La.	Lat 32°26'22", long 92°10'20", Ouachita Parish, on downstream side of bridge on State Highway 34, 1.5 miles (2.4 km) south of Bawcomville.	(†)	1978	1978	<*33.6
07369016	Youngs Bayou at Monroe, La.	Lat 32°29'37", long 92°04'56", Ouachita Parish, at bridge on service road of U.S. Highway 165, 0.5 mile (0.5 km) south of junction with Interstate 20 at Monroe.	(†)	1978	5- 8-78	<*46.77
07369024	Youngs Bayou near Monroe, La.	Lat 32°27'34", long 92°02'49", Ouachita Parish, at bridge on Moore Road, 3.1 miles (5.0 km) southeast of Monroe.	(†)	1978	5- 8-78	*42.22
07369195	Turkey Creek near Baskin, La.	Lat 32°14'50", long 91°40'45", Franklin Parish, at bridge on State Highway 577, 3.7 miles (6.0 km) east of Baskin.	(†)	1978	5- 8-78	*46.20
07369300	Deer Creek near Wisner, La.	Lat 31°57'00", long 91°39'15", Franklin Parish, at bridge on State Highway 15, 2.0 miles (3.2 km) south of Wisner.	27.1	1978	5-8-78	*41.30
07369325	Rawson Creek near Harrisonburg, La.	Lat 31°49'41", long 91°48'54", Catahoula Parish, at bridge on State Highway 124, 4.2 miles (6.8 km) north of Harrisonburg.	(†)	1978	5-29-78	*38.22
07369460	Roundaway Bayou near Tallulah, La.	Lat 32°23'09", long 91°12'30", Madison Parish, at bridge on State Highway 603, 1.5 miles (2.4 km) southwest of Tallulah.	(†)	1954-59†, 1978	5- 8-78	*40.21
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	1959-78	5- 8-78	118.29
07373282.3	Bayou Cocodrie at Ferriday, La.	Lat 31°37'33", long 91°34'37", Concordia Parish, at culvert on U.S. Highway 84, 1.5 miles (2.4 km) southwest of Ferriday Post Office.	(†)	1978	1978	<*21.76
07373283.2	Black River Lake at Monterey, La.	Lat 31°26'39", long 91°43'10", Concordia Parish, on left bank 0.1 mile (0.2 km) west of State Highway 129, 0.7 mile (1.1 km) south of Monterey, and 1.1 mile (1.8 km) south of Monterey High School.	(†)	1978	1-24-78	*17.63
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.	(††)	1963-78	1978	<72.38
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.	(††)	1963-78	1-25-78	67.55

See footnotes at end of the table.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

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ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1978--Continued

					Flood peak	
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation, in feet (NGVD)
Mississippi River Delta--Continued						
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.	(††)	1963-78	1978	<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	1973-78	12- 5-77	48.87
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.	(†)	1963-78	9-14-78	77.35
07382850	Horseshoe Drainage Canal at Packing House Road, at Alexandria, La.	Lat 21°16'25", long 92°26'15", Rapides Parish, at bridge 2.6 miles (4.2 km) south of Alexandria city hall.	(†)	1960-78	9-14-78	68.39
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.	(†)	1963-78	1-25-78	68.18
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.	(†)	1963-78	11- 1-77	67.91
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, 1962-78	11- 1-77	60.40
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	1959-78	1-24-78	*13.53
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	1964-78	1978	<108.17

† Drainage area not determined.

< Less than amount shown.

* Gage datum; NGVD of gage not determined.

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

†† Drainage area indeterminate.

a Approximately

b Combined drainage area for stations 07352150 and 07352900, 1,325 sq mi.

c Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1978

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
RED RIVER BASIN						
07348661 Bayou Dorcheat	Red River	Lat 33°00'39", long 93°23'27", Webster Parish, at bridge on parish road, and 0.6 mi south of Arkansas-Louisiana State line.	502	--	7-18-78	0
07348683 Taylor Branch	Crooked Creek	Lat 33°00'29", long 93°25'38", Webster Parish, at bridge on parish road 0.4 mi upstream from mouth, and 2.3 mi east of State Highway 7 at Springhill, La.	(†)	--	7-18-78	*.02
07348689 Little Crooked Creek	...do.....	Lat 32°59'55", long 93°25'28", Webster Parish, at bridge on parish road, 1.3 mi from mouth, and 1.7 mi east of State Highway 7 at Springhill, La.	(†)	--	7-18-78	*2.68
07348701 Braley Creek	Bayou Dorcheat	Lat 32°58'17", long 93°25'12", Webster Parish, at bridge on parish road, and 2.1 mi east of State Highway 7 at Cullen, La.	(†)	--	8- 7-78	*.14
07348710 Cypress Creek	...do.....	Lat 32°58'30", long 93°21'47", Webster Parish, at bridge on State Highway 157, 4.5 mi northwest of Shongaloo, La.	(†)	--	7-18-78	0
07348719 Bayou Dorcheat	Red River	Lat 32°56'29", long 93°22'17", Webster Parish, 0.5 mi upstream from Lick Creek, 1.3 mi north of Sykes Ferry, and 4.3 mi west of Shongaloo, La.	a692	--	7-18-78	*3.85
07348730 Indian Creek	Bayou Dorcheat	Lat 32°54'28", long 93°23'22", Webster Parish, at bridge on State Highway 2, 1.5 mi upstream from mouth, and 4.4 mi southwest of Shongaloo, La.	46.4	1964-78	7-18-78	0
07348721 Bayou Dorcheat	Red River	Lat 32°54'28", long 92°23'22", Webster Parish, 0.2 mi downstream from Indian Creek, 1.5 mi southwest of Sykes Ferry, and 5.5 mi southwest of Shongaloo, La.	a743	--	7-18-78	*0.68
07348732 Lick Creek	Bayou Dorcheat	Lat 32°55'38", long 92°23'10", Webster Parish, at bridge on State Highway 2, 4.4 mi northeast of Sarepta, La.	(†)	--	7-18-78	0
07348733 Howell Creek	Lick Creek	Lat 32°54'42", long 93°25'50", Webster Parish, at bridge on State Highway 2, 1.4 mi northeast of Sarepta, La.	(†)	--	7-18-78	0
07348735 Near Creek	Bayou Dorcheat	Lat 32°54'48", long 93°21'58", Webster Parish, at bridge on State Highway 2, 5.0 mi northeast of Sarepta, La.	(†)	--	7-18-78	0
07348768 Black Bayou	...do.....	Lat 32°50'46", long 93°19'21", Webster Parish, at bridge on State Highway 3008, 0.1 mi upstream from Caney Creek, and 4.3 mi southwest of Leton, La.	54.9	--	7-18-78	0
07348810 Flat Lick Bayou	...do.....	Lat 32°45'37", long 93°19'35", Webster Parish, at bridge on State Highway 3008, 0.1 mi upstream from Canon Creek, and 4.8 mi southeast of Cotton Valley, La.	73.8	--	7-18-78	0
07348813 Holden Creek	Flat Lick Bayou	Lat 32°47'42", long 93°18'24", Webster Parish, at bridge on State Highway 3008, and 5.0 mi southwest of Leton, La.	(†)	--	7-18-78	0
07348816 Cow Creek	...do.....	Lat 32°45'14", long 93°19'35", Webster Parish, at bridge on State Highway 3008, 0.4 mi upstream from mouth, and 5.2 mi southeast of Cotton Valley, La.	(†)	--	7-18-78	0
07348839 Unnamed	Bayou Dorcheat	Lat 32°43'57", long 93°22'34", Webster Parish, at bridge on State Highway 7, 0.2 mi north of Hortman, and 6.0 mi southeast of Cotton Valley, La.	(†)	--	7-18-78	0
07348862 Caney Creek	...do.....	Lat 32°40'13", long 93°19'13", Webster Parish, at bridge on State Highway 3008, 0.8 mi downstream from Caney Lakes dam, and 4.3 mi northwest of Minden, La.	(†)	--	7-18-78	b.1
07348900 Brushy Creek	...do.....	Lat 32°41'40", long 93°22'40", Webster Parish, at bridge on State Highway 7, 2.4 mi south of Hortman, and 7.5 mi northwest of Minden, La.	16.1	1955-68	7-18-78	0

See footnotes at end of the table.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1978--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
RED RIVER BASIN--Continued						
07348960 Bayou Dorcheat	Red River	Lat 32°38'36", long 93°20'17", Webster Parish, at pipe-line crossing, 0.4 mi upstream from Sausman Creek, and 1.7 mi west of Gilark, La.	(†)	1951-77c	7-18-78	*.42
07348970 Sausman Creek	Bayou Dorcheat	Lat 32°38'50", long 93°22'10", Webster Parish, at bridge on State Highway 7, 5.5 mi northwest of Minden, La.	12.8	1964-68	7-18-78	0
07351748.4 Louies Bayou	Louies Brake	Lat 31°57'04", long 93°28'39", De Soto Parish, at bridge on parish road, 0.4 mi downstream from Blanchard Bayou, 0.6 mi upstream from Dead Negro Branch, and 4.3 mi southwest of Evelyn, La.	(†)	--	5- 8-78	*2.89
07351748.2 Ramblin Bayou	Chemard Lake	Lat 31°55'01", long 93°28'29", De Soto Parish, at bridge on parish road, 1.4 mi downstream from Belle Bayou, and 6.2 mi south of Evelyn, La.	(†)	--	5- 8-78	*11.0
07351748.6 Prairie Bayou	Louies Bayou	Lat 31°55'33 , long 93°29'03", De Soto Parish, at bridge on parish road, 0.4 mi upstream from unnamed tributary, and 6.2 mi southwest of Evelyn, La.	(†)	--	5- 8-78	*4.31
07352380 Madden Mill Creek	Black Lake Bayou	Lat 32°23'50", long 93°11'06", Bienville Parish, at bridge on parish road, 3.0 mi northeast of Lawhon, and 4.2 mi southeast of Fryeburg, La.	(†)	1977	10-20-77	*1.12
07369150 Boeuf River	Ouachita River	Lat 32°04'21", long 91°55'37", on line between Caldwell and Franklin Parishes, at bridge on State Highway 4, and 6.7 mi northwest of Fort Necessity, La.	d2,542	1964	1-26-78 4- 4-78 6-17-78 7-25-78	19,300 183 1,080 0
07371515 Muddy Creek	Black Lake Bayou	Lat 32°13'29", long 92°52'49", Bienville Parish, at bridge on State Highway 4, 0.2 mi north of Friendship, and 2.3 mi northwest of Danville, La.	(†)	1977	10-19-77 2- 7-78 6-22-78 9-20-78	*.05 *1.26 *.07 *.10
07372750 Little River	Black River	Lat 31°34'50", long 92°18'35", on line between La Salle and Grant Parishes, at bridge on State Highway 8, 0.7 mi downstream from Trout Creek and 7.0 mi northeast of Pollock, and 7.0 mi upstream from Catahoula Lake, La.	2,254	1952-54, 1961-62, 1964-67, 1969, 1971,1977	10- 4-77 10-19-77 11- 7-77 8-18-78	*49.6 *97.5 185 *74.5
07372763 Hurricane Creek	Little River	Lat 31°32'51", long 92°17'12", La Salle Parish, 0.3 mi above mouth, 1.4 mi downstream from mouth of Lick Branch, and 4.8 mi northeast of Fishville, La.	13.8	--	10-19-77	*.79
07373122 Big Creek	...do.....	Lat 31°31'57", long 92°18'10", Grant Parish, 100 ft upstream from Long Branch, 0.5 mi above mouth, and 4.2 mi east of Fishville, La.	75.5	--	10-19-77	*25.3
07373228 Devils Creek	Catahoula Lake	Lat 31°34'59", long 92°10'19", La Salle Parish, at bridge on parish road, 1.2 mi upstream from Pound Branch, and 2.6 mi west of Nebo, La.	(†)	1977	4- 4-78	*1.84
07373230 Do.....	...do.....	Lat 31°34'15", long 92°09'34", La Salle Parish, at bridge on State Highway 127, 0.1 mi down- stream from Pound Branch, and 1.8 mi southwest of Nebo, La.	(†)	1970	4- 4-78	*2.98
07373231 Do.....	...do.....	Lat 31°33'51", long 92°09'00", La Salle Parish, at bridge on parish road, 1.0 mi downstream from Pound Branch, and 1.8 mi south of Nebo, La.	(†)	1977	4- 4-78	*3.19
MISSISSIPPI RIVER DELTA						
07381768 Spring Creek	Bayou Cocodrie	Lat 31°06'36", long 92°39'17", Rapides Parish, at bridge on parish road, 1.3 mi upstream from Squyres Branch, and 1.5 mi west of Melder, La.	21.5	1969, 1972-77	9-29-78	*2.24
07381774 Do.....	...do.....	Lat 31°05'55", long 92°38'12", Rapides Parish, at bridge on parish road, 0.2 mi downstream from Squyres Branch, and 0.5 mi south of Melder, La.	28.3	1969-73, 1975-77	9-29-78	*5.04

See footnotes at end of the table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1978--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
MISSISSIPPI RIVER DELTA--Continued						
07381777 Rocky Branch	Spring Creek	Lat 31°05'53", long 92°37'39", Rapides Parish, at bridge on State Highway 112, 0.5 mi upstream from mouth, and 0.7 mi southeast of Melder, La.	3.76	1969-73, 1975-77	9-29-78	*.27
07381781 Roaring Creek	...do.....	Lat 31°04'51", long 92°36'37", Rapides Parish, at bridge on parish road, 0.9 mi upstream from mouth, and 3.0 miles southeast of Melder, La.	7.66	1969, 1971-73, 1975-76	9-29-78	*1.41
07382700 Rayou 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, La.	82.6	1956-57, 1960, 1962-69, 1977	1-26-78	1,740
CALCASIEU RIVER BASIN						
08015600 Barnes Creek	Calcasieu River	Lat 30°31'00", long 93°08'28", Beauregard Parish, at bridge on U.S. Highway 190, 5.5 mi west of Reeves, La.	111	1952,1957	3-23-78	*3.02
08015610 Do.....	...do.....	Lat 30°28'04", long 93°05'35", Allen Parish, at bridge on parish road, and 3.6 mi southwest of Bel, La.	(†)	--	3-23-78 5-25-78	*5.35 *1.-0
08015700 Clear Creek	Barnes Creek	Lat 30°31'10", long 93°03'10", Allen Parish, at bridge on U.S. Highway 190, 0.4 mi west of Reeves, La.	23.1	1939,1952, 1955-57, 1959-64	3-23-78 5-25-78	*3.34 *.54
08016600 Hickory Branch	Beckwith Creek	Lat 30°30'05", long 93°16'45", Beauregard Parish, at bridge on State Highway 12, 0.7 mi southwest of Kernan, 3.0 mi upstream from Cowpen Creek, and 10 mi northeast of De Quincy, La.	82.2	1945-57e	4- 7-78 5-24-78	*2.56 *10.2
08016620 Do.....	...do.....	Lat 30°24'54", long 93°16'45", Beauregard Parish, at bridge on parish road, 0.4 mi downstream from Little Creek, and 5.1 mi southwest of Gaytine.	132	1943	4- 7-78 5-25-78	*4.74 *11.1
SABINE RIVER BASIN						
08023500 Bayou San Patricio	Sabine River	Lat 31°43'15", long 93°42'25", Sabine Parish, at bridge on U.S. Highway 171, 2.5 mi northwest of Noble, La.	154	1952-67e, 1972	9-15-78	1,820

† Drainage area not determined.

* Base flow.

a Approximately.

b Base flow estimated.

c Site of low-water measurements and supplemental gage
for gaging station Bayou Dorcheat near Minden, La.
(sta 07349000).d Owing to interchange of flow, drainage area
arbitrarily determined.

e Operated as a continuous-record gaging station.

RED RIVER BASIN

07351749 CHEMARD LAKE NEAR EVELYN, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED AS CaCO3 (MG/L)	HARDNESS, NONCARBONATE, DIS-SOLVED AS CaCO3 (MG/L)
NOV 16...	1300	167	6.8	18.0	80	10	5.6	3.0	K180	310	40	0
FEB 15...	1000	109	5.7	6.5	130	40	8.8	2.8	480	1200	31	24
APR 19...	1200	152	6.5	18.0	80	45	3.9	5.0	K3000	11000	37	16

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CaCO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)
NOV 16...	7.9	4.8	19	47	1.3	5.0	49	0	40	4.0	25
FEB 15...	5.8	3.9	8.4	36	.7	1.9	8	0	7	31	8.7
APR 19...	6.9	4.8	12	39	.9	2.5	25	0	21	26	14

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 16...	.1	13	123	103	.17	.05	.45	.50	2.2	.10	--
FEB 15...	.0	9.4	88	73	.12	.05	.49	.54	2.4	.10	11
APR 19...	.1	9.4	99	88	.13	.03	.73	.76	3.4	.11	--

DATE	ARSENIC, DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CADMIUM RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G)	CHROMIUM, HEXAVALENT, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	IRON RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS PB)
FEB 15...	1	1	0	0	20	0	2	8	240	900	2	0
APR 19...	--	29	--	0	11	--	--	13	--	28000	--	50

DATE	MANGANESE, DIS-SOLVED (UG/L AS MN)	MANGANESE RECOVERABLE FROM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY RECOVERABLE FROM BOTTOM MATERIAL (UG/L AS HG)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)
FEB 15...	60	900	.0	.1	10	40	.00	5	.0	--	.00
APR 19...	--	440	--	.0	--	93	--	--	.0	0	.00

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07351749 CHEMARD LAKE NEAR EVELYN, LA--Continued

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	D1- AZINON, TOTAL (UG/L)
FEB 15...	.00	--	.0	--	.00	--	.00	--	.00	--	.00
APR 19...	.00	.0	.0	0	.00	3.2	.00	3.3	.00	.0	.00

DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	
FEB 15...	--	.00	--	.00	--	.00	--	.00	--	.00	--
APR 19...	.0	.00	.5	.00	.0	.00	.0	.00	.0	.00	.0

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 15...	.00	--	.00	--	.00	--	.00	--	.00	.00	--
APR 19...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB 15...	0	--	.00	--	.01	.00	.00	.00	.00
APR 19...	0	0	.00	.0	.36	.00	.01		

07351995 SALINE BAYOU SOUTHEAST OF BIENVILLE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JUN 22...	1200	480	6.6	36	27	0	11	100	.3	940	570

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07352328 BASHAWAY CREEK NEAR HEFLIN, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
FEB 28...	1200	155	7.3	9.5	15	35	31	10	2.4	11	2.0

DATE	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS NO3)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
FEB 28...	5	0	35	13	.1	15	112	91	.12	110	80

07352330 BASHAWAY CREEK NEAR FRYEBURG, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
FEB 28...	1100	291	7.4	8.5	30	46	39	11	4.5	32	3.6

DATE	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS NO3)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
FEB 28...	8	0	40	46	.1	11	183	152	.20	160	210

07352380 MADDEN MILL CREEK NEAR FRYEBURG, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 20...	0945	42	5.9	15.0	20	10	3	3.5	.3	3.5	.8
FEB 28...	1400	41	7.8	12.0	30	5	1	1.8	.1	3.7	.9
JUN 22...	1315	--	5.6	--	--	12	2	--	--	--	--
SEP 19...	1400	43	6.8	24.0	50	8	0	2.2	.6	3.7	1.1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07352380 MADDEN MILL CREEK NEAR FRYEBURG, LA--Continued

DATE	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS NO3)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 20...	8	0	5.0	4.5	.2	15	33	37	.05	340	90
FEB 28...	5	0	3.4	4.5	.0	11	44	28	.26	270	36
JUN 22...	12	0	.0	4.9	.3	--	--	--	--	540	690
SEP 19...	10	0	.0	5.0	.2	16	48	35	1.1	490	360

07352390 BLACK LAKE BAYOU NEAR JAMESTOWN, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JUN 22...	1300	380	6.3	28	33	0	5.4	92	.3	1500	2100

07367500 CHENIERE BRAKE AT DAM, NEAR BAWCOMVILLE, 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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CACO3)
NOV 02...	0805	59	5.7	20.0	15	3	5.4	.7	<5	K60	14	1
FEB 21...	1545	56	6.3	6.5	50	1	9.8	1.3	--	K33	14	3
FEB 21...	1547	50	6.2	6.5	--	--	9.8	--	--	--	--	--
APR 04...	1650	65	6.1	21.5	20	2	9.3	2.1	K5	<5	13	5
JUL 25...	1505	60	6.1	33.5	15	2	5.6	3.0	K1200	K4800	18	7

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 02...	3.2	1.5	5.2	41	.6	1.8	16	0	13	1.3	6.6
FEB 21...	3.8	1.0	5.2	42	.6	1.8	13	0	11	6.7	7.3
FEB 21...	--	--	--	--	--	--	--	--	--	--	--
APR 04...	3.0	1.3	5.6	44	.7	2.0	10	0	8	8.6	7.4
JUL 25...	4.4	1.6	7.6	45	.8	2.1	14	0	11	5.9	12

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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RED RIVER BASIN

07367500 CHENIERE BRAKE AT DAM, NEAR BAWCOMVILLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 02...	.0	3.2	36	31	.05	.03	.28	.31	1.4	.03	6.8
FEB 21...	.0	11	43	43	.06	.02	.28	.30	1.3	.03	--
FEB 21...	--	--	--	--	--	--	--	--	--	--	--
APR 04...	.0	2.6	40	35	.05	.01	.26	.27	1.2	.02	--
JUL 25...	.0	2.4	46	43	.06	.00	.75	.75	3.3	.02	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 02...	1	12	0	1	8	0	0	9	100	12000	0	20

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
NOV 02...	20	240	.0	.1	10	36	.00	2	.0	0	.00

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
NOV 02...	.00	.0	.0	0	.00	3.3	.00	3.8	.00	.0	.00

DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
NOV 02...	.0	.00	.2	.00	.1	.00	.0	.00	.0	.00	.0

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 02...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07367500 CHENIERE BRAKE AT DAM, NEAR BAWCOMVILLE, LA--Continued

DATE	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MATERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION, TOTAL IN BOT-TOM MATERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 02...	0	0	.00	.0	.00	.00	.00

07369270 TURKEY CREEK LAKE (BIG BRAKE) NEAR EXTENSION, LA

DATE	TIME	SPE-CIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS, DIS-SOLVED (MG/L AS CAC03)	HARD-NESS, NONCAR-BONATE, DIS. (MG/L AS CAC03)
NOV 02...	1615	150	7.1	20.5	10	10	7.2	5.4	<5	950	38	5
FEB 21...	1220	116	6.6	6.0	50	60	10.2	3.0	K53	K33	33	7
APR 04...	1240	128	7.1	22.0	80	45	9.2	4.2	K13	--	42	21
JUL 25...	1010	125	8.0	30.5	25	15	7.5	1.4	<5	14000	37	2

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HC03)	CAR-BONATE (MG/L AS C03)	ALKA-LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV 02...	9.6	3.4	12	38	.8	3.1	40	0	33	.9	22
FEB 21...	7.9	3.3	8.6	34	.6	2.9	32	0	26	5.8	17
APR 04...	12	2.8	9.4	31	.6	3.1	25	0	21	10	21
JUL 25...	9.5	3.2	6.6	26	.5	3.4	43	0	35	1.7	15

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN+AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N03)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 02...	.1	.9	74	72	.10	.03	.60	.63	2.8	.09	7.6
FEB 21...	.1	4.3	69	66	.09	.26	3.8	4.1	18	.24	--
APR 04...	.1	3.0	71	74	.10	2.6	1.1	3.7	16	.15	--
JUL 25...	.1	2.1	66	63	.09	.01	.85	.86	3.8	.07	--

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MATERIAL (UG/G AS AS)	CADMIUM DIS-SOLVED (UG/L AS CD)	CAUMIUM RECOV. FM BOT-TOM MATERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MATERIAL (UG/G)	CHRO-MIUM, HEXA-VALENT, DIS. (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MATERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MATERIAL (UG/G AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MATERIAL (UG/G AS PB)
NOV 02...	1	15	0	<1	5	0	1	11	30	11000	0	40

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

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

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07369270 TURKEY CREEK LAKE (BIG BRAKE) NEAR EXTENSION, LA--Continued

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
NOV 02...	20	560	.0	.0	10	30	.00	8	.0	0	.00

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
NOV 02...	.00	.0	.0	0	.00	10	.00	14	.00	.0	.00

DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
NOV 02...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 02...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 02...	0	0	.00	.0	.00	.00	.00

07369340 OUACHITA RIVER (AT OLD LOCK AND DAM NO. 2), NEAR HARRISONBURG, 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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)
NOV 04...	0915	570	7.5	20.5	140	15	5.3	4.7	K10	140	85	0
FEB 20...	1320	159	6.5	6.5	60	65	11.0	2.2	K24000	93	31	12
APR 03...	1330	198	6.5	17.0	30	15	8.6	2.3	--	--	38	21
JUL 24...	1315	230	6.3	34.0	70	20	5.3	1.4	<5	5400	49	18

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07369340 OUACHITA RIVER (AT OLD LOCK AND DAM NO. 2) NEAR HARRISONBURG, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
NOV 04...	24	6.2	78	65	3.7	3.8	110	0	90	28	98	
FEB 20...	8.5	2.3	16	51	1.3	2.2	23	0	19	16	25	
APR 03...	11	2.5	20	52	1.4	1.8	21	0	17	14	37	
JUL 24...	14	3.4	26	52	1.6	2.4	38	0	31	14	41	
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	
NOV 04...	.2	8.5	326	301	.44	.46	.59	1.1	4.6	.79	12	
FEB 20...	.1	7.1	96	89	.13	.18	.66	.84	3.7	.16	--	
APR 03...	.1	5.8	107	103	.15	.13	.47	.60	2.7	.06	--	
JUL 24...	.1	8.4	146	128	.20	.41	.68	1.1	4.8	.13	--	
DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 04...	2	5	0	<1	4	0	1	3	270	4300	1	<10
DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	
NOV 04...	180	240	.0	.1	10	14	.00	3	.0	0	.00	
DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	
NOV 04...	.00	.0	.0	0	.00	1.4	.00	1.4	.00	1.3	.00	
DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)		
NOV 04...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	

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

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07369340 OUACHITA RIVER (AT OLD LOCK AND DAM NO. 2) NEAR HARRISONBURG, LA--Continued

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 04...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 04...	0	0	.00	.0	.00	.02	.00

324850091111000 LAKE PROVIDENCE NORTH OF LAKE PROVIDENCE, LA

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)
NOV 02...	1345	.5	225	7.5	19.5	5	7	6.0	1.8	K5	470	82
FEB 22...	1210	.5	197	7.2	5.0	20	9	1.3	4.2	--	K5	83
APR 05...	1120	.5	230	8.3	18.0	5	4	10.4	2.9	K80	K200	85
JUL 26...	1030	.5	173	8.7	30.5	5	4	10.6	1.9	<5	4100	66

DATE	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SCRIP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS C03)	ALKA- LITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 02...	0	20	7.7	9.0	18	.4	4.4	120	0	98	2.9	5.3
FEB 22...	0	21	7.5	7.7	16	.4	3.6	110	0	90	4.9	4.9
APR 05...	0	22	7.4	7.9	16	.4	4.1	117	0	96	9.3	5.2
JUL 26...	0	15	7.0	7.6	19	.4	4.0	71	14	82	4.6	4.6

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 02...	.1	4.3	109	113	.15	.26	.72	.98	4.3	.08	4.5
FEB 22...	.1	.6	103	105	.14	.02	.66	.68	3.0	.07	--
APR 05...	.1	.4	--	114	.14	.00	.66	.66	2.9	.05	--
JUL 26...	.1	3.4	92	95	.13	.03	1.1	1.1	5.0	.08	--

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

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

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 1977 TO SEPTEMBER 1978

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CH)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECov. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECov. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 02...	5	14	0	0	6	0	3	5	20	4700	1	6
JUL 26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECov. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECov- ERABLE (UG/L AS HG)	MERCURY RECov. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECov. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 02...	0	360	.0	.0	10	25	.00	2	.0	6	.00	--	--
JUL 26...	--	--	--	--	--	--	--	--	--	2	--	--	.0

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDO, TOTAL (UG/L)	DDO, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 02...	.00	.0	.0	0	.01	31	.01	26	.00	.0	.00	.0
JUL 26...	--	.0	--	--	--	36	--	71	--	1.8	--	.0

DATE	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE TOTAL (UG/L)
NOV 02...	.00	.3	.00	.5	.00	.0	.00	.0	.00	.0	.00
JUL 26...	--	.0	--	.0	--	.0	--	.0	--	.0	--

DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL THION, TOTAL (UG/L)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 02...	.7	.00	.0	.00	.0	.00	.0	.00	.0	--	.00	.0	.0
JUL 26...	--	--	.0	--	.0	--	.0	--	.0	--	.0	--	.0

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

324850091111000 LAKE PROVIDENCE NORTH OF LAKE PROVIDENCE, LA--Continued

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVERX, TOTAL (UG/L)
NOV 02...	0	51	.00	.0	.00	.09	.00
JUL 26...	--	0	--	.0	--	--	--

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV 02...	1345	.5	225	7.5	19.5	6.0
FEB 22...	1210	.5	197	7.2	5.0	1.3
22...	1216	14	170	8.6	4.5	12.6
APR 05...	1120	.5	230	8.3	18.0	10.4
05...	1122	15	230	7.9	17.5	10.2
JUL 26...	1030	.5	173	8.7	30.5	10.6
26...	1032	15	175	8.6	29.5	7.7

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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03
NOV 03...	1545	173	9.0	19.0	55	20	12.4	8.0	K30	100	80
FEB 22...	1605	117	7.2	7.0	50	85	12.5	5.9	K67	K40	51
APR 05...	1505	158	8.8	24.5	20	9	12.4	5.7	<5	--	72
JUL 26...	1420	185	9.1	34.5	5	10	13.6	11	K200	200	77

DATE	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 03...	0	26	3.7	10	20	.5	5.2	110	8	100	.8
FEB 22...	0	14	3.9	1.8	7	.1	4.2	65	0	53	4.1
APR 05...	4	20	5.3	2.4	6	.1	5.4	79	2	68	9.0
JUL 26...	0	21	5.9	4.0	9	.2	5.3	73	17	88	2.0

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07369647 LAKE ST. JOSEPH NEAR NEWELLTON, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 (MG/L AS N)	NITROGEN+AMMONIA + ORGANIC (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 03...	3.6	.2	9.2	--	121	.16	.03	2.8	2.8	13	.72
FEB 22...	2.7	.1	2.3	62	65	.08	.01	1.7	1.7	7.6	.29
APR 05...	2.7	.1	1.5	--	87	.11	.00	1.5	1.5	6.6	.21
JUL 26...	2.6	.1	11	103	105	.14	.05	3.6	3.7	16	.24

DATE	ARSENIC, DIS-SOLVED (UG/L AS AS)	ARSENIC, TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CADMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, HEXAVALENT, DIS-SOLVED (UG/L AS CH)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, TOTAL IN BOTTOM MATERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, TOTAL IN BOTTOM MATERIAL (UG/G AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, TOTAL IN BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, DIS-SOLVED (UG/L AS MN)
NOV 03...	20	27	0	1	0	2	25	20	15000	0	30	0
JUL 26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGANESE, RECOVERED IN BOTTOM MATERIAL (UG/G)	MERCURY, TOTAL RECOVERABLE (UG/L AS HG)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, TOTAL IN BOTTOM MATERIAL (UG/G AS ZN)	PCB, TOTAL IN BOTTOM MATERIAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)
NOV 03...	840	.0	10	92	.0	0	.00	.0	.00	.0	.0
JUL 26...	--	--	--	--	--	0	--	--	--	.0	--

DATE	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL IN BOTTOM MATERIAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DI-AZINON, TOTAL IN BOTTOM MATERIAL (UG/L)	DI-AZINON, TOTAL IN BOTTOM MATERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOTTOM MATERIAL (UG/L)	DI-ELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV 03...	0	.00	61	.00	140	.00	9.1	.00	.0	.00	.2
JUL 26...	--	--	28	--	45	--	3.2	--	.0	--	.2

DATE	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	LINDANE, TOTAL (UG/L)	LINDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV 03...	.00	.00	.6	.00	.0	.00	.8	.00	.1	.00	.0
JUL 26...	--	--	.2	--	.0	--	.0	--	.0	--	--

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07369647 LAKE ST. JOSEPH NEAR NEWELLTON, LA--Continued

DATE	MALA- THION, TOTAL (UG/L)	MALA- THION, IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL THION, TOTAL (UG/L)	METHYL THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL THION, TOT. IN BOTTOM MATL. (UG/L)	METHYL THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0
JUL 26...	--	.0	--	--	.0	--	.0	--	.0	--	.0

DATE	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL (UG/L)	TRI- THION, TOTAL (UG/L)	TRI- THION, IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 03...	.00	0	--	.00	.0	.0	5.0	.00	.00
JUL 26...	--	--	0	--	.0	--	--	--	--

320129091112500 LAKE ST. JOSEPH SOUTHEAST OF NEWELLTON, LA

DATE	TIME	SPE- CIFIC CON- DUCTI- VANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L AS CAC03)
NOV 03...	1530	169	9.2	17.5	30	20	13.0	8.5	K15	K45	82	0
FEB 22...	1550	115	7.1	7.0	40	85	12.2	5.8	170	K13	50	0
APR 05...	1455	155	8.5	25.0	10	10	11.2	7.4	<5	--	71	4
JUL 26...	1405	177	9.1	34.0	10	15	13.8	9.2	1200	1000	75	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKAL- INITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 03...	22	6.6	3.7	8	.2	5.0	80	13	87	.7	3.1
FEB 22...	13	4.2	1.8	7	.1	4.3	63	0	52	4.7	2.7
APR 05...	19	5.6	2.4	6	.1	5.3	80	1	67	9.0	2.7
JUL 26...	20	6.0	2.8	7	.1	5.2	69	16	83	2.9	2.5
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 03...	.2	9.3	112	103	.15	.03	2.7	2.7	12	.38	14
FEB 22...	.1	2.5	65	64	.09	.01	1.6	1.6	7.1	.30	--
APR 05...	.1	1.6	82	86	.11	.00	1.2	1.2	5.3	.19	--
JUL 26...	.1	10	107	99	.15	.01	2.6	2.6	12	.26	--

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

320129091112500 LAKE ST. JOSEPH SOUTHEAST OF NEWELLTON, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TCTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CR)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CH)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 03...	29	30	0	1	3	0	2	29	20	16000	2	30
JUL 26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, RECOV. FM BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
NOV 03...	4	960	.0	.0	10	100	.00	3	.0	0	.00
JUL 26...	--	--	--	--	--	--	--	--	--	0	--

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
NOV 03...	.00	.0	.0	0	.00	53	.00	120	.00	7.7	.00
JUL 26...	--	.0	--	--	--	16	--	22	--	.0	--

DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	HEPTA- CHLOR, EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATERIAL (UG/KG)
NOV 03...	.0	.00	.0	.00	.3	.00	.0	.00	.1	.00	.0
JUL 26...	.0	--	.0	--	.0	--	.0	--	.0	--	.0

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	1.6	.00	.0	.00	.0	.00	.0	.00	.00	.0
JUL 26...	--	.0	--	.0	--	.0	--	.0	--	--	.0

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	0	0	.00	.0
JUL 26...	--	0	--	.0

RED RIVER BASIN

07369648 LAKE BRUIN AT LAKE BRUIN PARK, NEAR ST. JOSEPH, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)
NOV 03...	1430	.5	168	7.7	20.0	5	3	5.0	1.8	<5	K10	75
FEB 23...	1440	.5	161	7.1	7.0	5	10	12.2	3.3	K47	K33	71
APR 06...	1345	.5	156	8.1	17.5	5	2	12.0	1.0	--	240	75
JUL 27...	1440	.5	150	8.7	30.0	0	3	7.9	1.2	9200	200	64

DATE	HARD- NESS, NONCAR- BONATE, DIS- (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 03...	0	20	6.0	2.7	7	.1	4.2	100	0	82	1.4	2.4
FEB 23...	0	19	5.6	2.8	7	.1	3.8	90	0	74	3.3	2.6
APR 06...	1	21	5.5	2.4	6	.1	4.1	90	0	74	2.4	2.4
JUL 27...	0	17	5.3	2.6	8	.1	4.2	80	4	72	1.4	2.6

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 03...	.0	.1	89	86	.12	.07	.75	.82	3.6	.06	5.8
FEB 23...	.1	.1	--	82	.10	.37	.59	.96	4.3	.06	--
APR 06...	.1	.3	84	83	.11	.22	.69	.91	4.0	.02	--
JUL 27...	.1	1.2	77	78	.10	.00	.61	.61	2.7	.02	--

DATE	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM TOTAL FM BOT- TOM MA- TERIAL (UG/G AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 03...	8	21	0	1	0	0	27	10	16000	0	30	0
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	940	.0	.0	8	64	.00	.0	0	.00	.0	.00	.0
JUL 27...	--	--	--	--	--	--	--	0	--	--	--	.0

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07369648 LAKE BRUIN AT LAKE BRUIN PARK, NEAR ST. JOSEPH, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, IN BOT-TOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, IN BOT-TOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, IN BOT-TOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, IN BOT-TOM MATERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-AZINON, IN BOT-TOM MATERIAL (UG/KG)	DI-ELDRIN, TOTAL (UG/L)
NOV 03...	.0	0	.00	68	.00	100	.00	.0	.00	.0	.00
JUL 27...	--	42	--	33	--	43	--	4.2	--	.0	--

DATE	DI-ELDRIN, TOTAL IN BOT-TOM MATERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, IN BOT-TOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, IN BOT-TOM MATERIAL (UG/KG)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, IN BOT-TOM MATERIAL (UG/KG)	HEPTA-CHLOR EPCXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTIOM MAIL. (UG/ KG)	LINDANE TOTAL (UG/L)	LINDANE IN BOT-TOM MATERIAL (UG/KG)
NOV 03...	.0	.00	.1	.00	.0	.00	.1	.00	.0	.00	.7
JUL 27...	.0	--	.0	--	.0	--	.0	--	.0	--	--

DATE	MALA-THION, TOTAL (UG/L)	MALA-THION, IN BOT-TOM MATERIAL (UG/KG)	METH-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL PARA-THION, IN BOT-TOM MATERIAL (UG/KG)	METHYL TRI-THION, TOTAL (UG/L)	METHYL TRI-THION, IN BOT-TOM MATERIAL (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, IN BOT-TOM MATERIAL (UG/KG)	PARA-THION, TOTAL (UG/L)	PARA-THION, IN BOT-TOM MATERIAL (UG/KG)
NOV 03...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0
JUL 27...	--	.0	--	--	.0	--	.0	--	.0	--	.0

DATE	PER-THANE, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, IN BOT-TOM MATERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION, IN BOT-TOM MATERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T, TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 03...	.00	0	0	.00	.0	.00	.00	.00
JUL 27...	--	--	0	--	.0	--	--	--

DATE	TIME	SAMP-LING DEPTH (FT)	SPECIFIC CONDUCTANCE (MICRO-MHO'S)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV 03...	1429	.5	--	7.2	20.0	4.5
03...	1430	10	168	7.7	20.0	5.0
03...	1432	19	--	7.1	20.0	4.0
FEB 23...	1440	.5	161	7.1	7.0	12.2
23...	1442	20	155	8.7	7.0	11.8
APR 06...	1345	.5	156	8.1	17.5	12.0
06...	1347	20	174	7.6	14.5	8.5
JUL 27...	1440	.5	150	8.7	30.0	7.9
27...	1442	5.0	180	8.7	30.0	7.8
27...	1443	10	180	8.5	29.5	6.5
27...	1444	15	180	8.4	29.0	6.0
27...	1445	17	178	8.3	29.0	5.4
27...	1446	20	180	7.4	28.5	1.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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RED RIVER BASIN

320000091142800 LAKE BRUIN SOUTH OF NEWELLTON, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)
NOV 03...	1405	2.0	165	8.0	20.5	5	3	7.9	2.5	<5	K90	75
FEB 23...	1430	.5	164	7.1	7.0	5	5	12.0	3.1	K13	K7	73
APR 06...	1320	.5	160	8.4	21.0	5	2	11.8	1.4	<5	130	80
JUL 27...	1415	.5	147	8.3	31.5	5	3	8.4	1.1	--	390	64

DATE	HARD- NESS, NUNCAR- BONATE, DIS- (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 03...	0	20	0.0	2.7	7	.1	4.3	99	0	81	1.5	2.4
FEB 23...	0	20	5.6	2.4	6	.1	3.8	93	0	76	2.9	2.7
APR 06...	5	23	5.5	2.5	6	.1	5.6	89	1	75	3.8	2.7
JUL 27...	0	17	5.3	2.8	8	.2	4.1	85	0	70	3.4	2.8

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N+O3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 03...	.2	3.1	88	89	.12	.05	.77	.82	3.6	.09	5.7
FEB 23...	.1	.1	--	83	.10	.35	.55	.90	4.0	.06	--
APR 06...	.1	.3	--	88	.11	.16	.68	.84	3.7	.02	--
JUL 27...	.1	1.3	80	79	.11	.01	.73	.74	3.3	.03	--

DATE	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	ARSENIC DIS- SOLVED (UG/G AS CD)	CADMIUM TOTAL IN BOT- TOM MA- TERIAL (UG/G AS CD)	CADMIUM DIS- SOLVED (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 03...	6	31	0	<1	8	0	0	24	10	15000	0	0
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

320000091142800 LAKE BRUIN SOUTH OF NEWELLTON, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	20	0	1100	.0	.0	10	60	.00	1	.0	0
JUL 27...	--	--	--	--	--	--	--	--	--	--	0
DATE	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.00	.0	.0	0	.00	150	.00	170	.00	--
JUL 27...	--	--	.0	--	--	--	25	--	1.8	--	.2
DATE	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TCT. IN BOTTOM MATL. (UG/KG)
NOV 03...	.00	.0	.00	.9	.00	1.3	.00	.0	.00	.0	.0
JUL 27...	--	.0	--	.0	--	.0	--	.0	--	.0	.0
DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0
JUL 27...	--	.0	--	.0	--	.0	--	.0	--	--	.0
DATE	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)		
NOV 03...	0	0	.00	.0	.05	.01	.00				
JUL 27...	--	0	--	.0	--	--	--				

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

320000091142800 LAKE BRUIN SOUTH OF NEWELLTON, LA--Continued

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV 03...	1405	2.0	165	8.0	20.5	7.9
03...	1406	19	--	7.4	20.0	6.5
FEB 23...	1430	.5	164	7.1	7.0	12.0
APR 06...	1320	.5	160	8.4	21.0	11.8
06...	1322	20	160	8.7	19.5	11.8
JUL 27...	1415	.5	147	8.3	31.5	8.4
27...	1417	5.0	165	8.8	30.5	8.5
27...	1418	10	165	8.7	30.5	8.4
27...	1419	15	170	8.6	30.0	7.6
27...	1420	17	175	8.1	29.0	4.9

314400091264000 LAKE ST. JOHN SOUTH OF WATERPROOF, LA

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)
NOV 03...	1115	2.0	142	8.0	20.5	10	6	8.2	1.9	<5	<5	50
FEB 23...	1125	.5	128	7.3	7.0	10	6	12.0	3.9	K100	K27	42
APR 06...	1035	.5	136	8.4	21.0	10	5	10.7	2.8	K4	K52	44
JUL 27...	1030	.5	144	8.8	32.5	5	7	9.0	3.6	K1400	K1000	48

DATE	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS C03)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 03...	0	14	3.7	7.1	22	.4	4.5	60	1	51	.3	13
FEB 23...	0	12	2.9	6.5	23	.4	4.0	52	0	43	2.6	10
APR 06...	0	12	3.5	7.7	25	.5	4.5	51	2	45	7.9	13
JUL 27...	0	13	3.7	6.8	22	.4	4.5	47	7	50	2.7	12

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 03...	.1	4.7	80	78	.11	.01	.84	.85	3.8	.29	5.2
FEB 23...	.1	.1	62	64	.08	.00	.61	.61	2.7	.06	--
APR 06...	.1	.4	--	76	.09	.00	.72	.72	3.2	.05	--
JUL 27...	.1	3.6	79	77	.11	.00	1.3	1.3	5.8	.09	--

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

314400091264000 LAKE ST. JOHN SOUTH OF WATERPROOF, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	
NOV 03...		2	24	0	1	8	0	0	24	0	18000	1	30
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
NOV 03...		0	840	.0	.0	10	90	.00	2	.0	0	.00
JUL 27...	--	--	--	--	--	--	--	--	--	--	0	--

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
NOV 03...	.00	.0	.0	0	.00	.9	.00	2.1	.00	.0	.00
JUL 27...	--	.0	--	--	--	2.2	--	10	--	.0	--

DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL EPOXIDE (UG/L)	HEPTA- CHLOR TOT. IN BOTTOM MATL. (UG/KG)
NOV 03...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
JUL 27...	.0	--	.0	--	.0	--	.0	--	.0	--	.0

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0
JUL 27...	--	--	--	.0	--	.0	--	.0	--	--	.0

DATE	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 03...		0	0	.00	.0	.00	.00
JUL 27...	--	0	--	.0	--	--	--

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

314400091264000 LAKE ST. JOHN SOUTH OF WATERPROOF, LA--Continued

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV 03...	1115	2.0	142	8.0	20.5	8.2
03...	1116	15	--	7.4	20.0	6.7
FEB 23...	1125	.5	128	7.3	7.0	12.0
26...	1127	20	130	8.3	7.0	11.8
APR 06...	1035	.5	136	8.4	21.0	10.7
06...	1037	16	155	8.7	21.0	10.3
06...	1051	19	150	7.5	19.0	8.4
JUL 27...	1030	.5	144	8.8	32.5	9.0
27...	1032	12	170	8.7	30.5	6.4

07370190 TENSAS RIVER AT CLAYTON, 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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML)	SIREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)
NOV 04...	0820	538	7.9	20.0	5	10	5.8	2.4	K35	2100	210	0
FEB 23...	1720	156	6.9	8.0	40	120	10.4	2.4	K40	190	55	4
APR 03...	1135	235	6.6	20.0	50	120	5.0	1.0	K110	--	88	0
JUL 24...	1120	351	6.2	32.5	5	6	7.2	.6	410	1600	130	3

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 04...	52	20	35	26	1.0	4.1	260	0	210	12	47
FEB 23...	17	3.1	6.3	19	.4	3.2	62	0	51	10	7.6
APR 03...	23	7.4	9.6	18	.4	3.8	110	0	90	14	12
JUL 24...	34	12	20	24	.8	4.5	159	0	130	10	24

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 04...	.2	15	308	314	.42	.04	.42	.46	2.0	.11	4.8
FEB 23...	.1	7.6	92	85	.13	.50	1.6	2.1	9.3	.45	--
APR 03...	.1	8.4	128	132	.17	.79	.88	1.7	7.4	.27	--
JUL 24...	.2	12	369	195	.50	.02	.73	.75	3.3	.11	--

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07370190 TENSAS RIVER AT CLAYTON, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC	CADMIUM	CADMIUM	CHRO-	CHRO-	COPPER,	COPPER,	IRON,	IRON,	LEAD,	LEAD,	
		TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	DIS- SOLVED (UG/L AS CD)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	MUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MUM, HEXA- VALENT, DIS- (UG/L AS CR)	DIS- SOLVED (UG/L AS CU)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	DIS- SOLVED (UG/L AS FE)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	DIS- SOLVED (UG/L AS PB)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	
NOV 04...		3	7	0	1	7	0	1	16	60	15000	1	20
JUL 24...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 04...	8	380	.0	.2	8	52	.00	2	.0	5	.00	--
JUL 24...	--	--	--	--	--	--	--	--	.0	0	.00	.0

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 04...	.00	.0	.0	0	.01	.0	.01	27	.00	.0	.00	.0
JUL 24...	.00	.0	.0	--	.00	63	.00	40	.00	.0	.00	.0

DATE	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)
NOV 04...	.00	.2	--	.00	.0	.00	.0	.00	.0	.00	.0	.00
JUL 24...	.01	.5	.00	.00	.4	.00	.0	.00	.0	.00	.1	.00

DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 04...	.0	.00	.0	.00	.00	.2	.00	.0	.00	--	.00	.0
JUL 24...	--	.00	.0	.00	.01	.0	.00	.0	.00	.0	.00	.0

DATE	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 04...	--	0	16	.00	.0	.12	.07	.00
JUL 24...	.00	0	42	.00	.0	.13	.50	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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RED RIVER BASIN

313730091325000 LAKE CONCORDIA AT FERRIDAY, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN-DISSOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED (MG/L AS CaCO3)	HARDNESS, NONCARBONATE, DIS-SOLVED (MG/L AS CaCO3)
NOV 03...	0915	216	8.5	21.0	20	8	5.5	2.6	K250	K35	89	0
FEB 23...	0930	221	7.9	7.0	10	6	13.4	5.1	<5	K27	99	0
APR 06...	0840	262	8.3	20.5	5	4	8.8	2.9	K28	730	130	0
JUL 27...	0805	247	7.1	29.5	5	4	2.8	2.8	2300	240	100	0

DATE	CALCIUM-DISSOLVED (MG/L AS Ca)	MAGNESIUM-DISSOLVED (MG/L AS Mg)	SODIUM-DISSOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM-AUTOTITRATION RATIO	POTASSIUM-DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CaCO3)	SULFATE-DISSOLVED (MG/L AS SO4)	CHLORIDE-DISSOLVED (MG/L AS Cl)
NOV 03...	19	10	9.4	18	.4	4.2	126	2	110	1.5	7.6
FEB 23...	24	9.6	7.8	14	.3	3.5	130	0	107	2.9	7.0
APR 06...	33	11	8.1	12	.3	4.2	167	0	137	1.9	6.5
JUL 27...	21	12	9.2	16	.4	4.3	146	0	120	1.3	7.5

DATE	FLUORIDE-DISSOLVED (MG/L AS F)	SILICA-DISSOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS AC-FT)	NITROGEN, NITROGEN+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 03...	.2	9.7	121	128	.16	.05	1.1	1.2	5.1	.18	6.4
FEB 23...	.1	.1	114	119	.16	.00	.81	.81	3.6	.07	--
APR 06...	.1	.3	--	147	.20	.00	.54	.54	2.4	.06	--
JUL 27...	.1	7.1	131	134	.18	.01	1.1	1.1	4.9	.07	--

DATE	ARSENIC-DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM-DISSOLVED (UG/L AS Cd)	CADMIUM RECOVERED FROM BOTTOM MATERIAL (UG/G AS Cd)	CHROMIUM, RECOVERED FROM BOTTOM MATERIAL (UG/G)	CHROMIUM, HEXAVALENT, DIS-SOLVED (UG/L AS Cr)	COPPER, DIS-SOLVED (UG/L AS Cu)	COPPER, RECOVERED FROM BOTTOM MATERIAL (UG/G AS Cu)	IRON, DIS-SOLVED (UG/L AS Fe)	IRON, RECOVERED FROM BOTTOM MATERIAL (UG/G AS Fe)	LEAD, DIS-SOLVED (UG/L AS Pb)	LEAD, RECOVERED FROM BOTTOM MATERIAL (UG/G AS Pb)
NOV 03...	5	14	0	1	10	0	1	24	20	30	0	30
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MANGANESE-DISSOLVED (UG/L AS Mn)	MANGANESE RECOVERED FROM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS Hg)	MERCURY RECOVERED FROM BOTTOM MATERIAL (UG/L AS Hg)	ZINC, DIS-SOLVED (UG/L AS Zn)	ZINC, RECOVERED FROM BOTTOM MATERIAL (UG/G AS Zn)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV 03...	0	1600	.0	.0	10	80	.00	1	.0	0	.00	.0
JUL 27...	--	--	--	--	--	--	--	--	--	0	--	--

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

313730091325000 LAKE CONCORDIA AT FERRIDAY, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDU, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.0	.0	0	.00	3.0	.00	22	.00	1.4	.00	.0
JUL 27...	--	.0	--	--	--	1.6	--	6.2	--	2.7	--	.0

DATE	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.2	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
JUL 27...	--	.0	--	.0	--	.0	--	.0	--	.0	--	--

DATE	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 03...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0
JUL 27...	--	.0	--	--	.0	--	.0	--	--	--	.0

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 03...	0	0	.00	.0	.00	.00	.00
JUL 27...	--	0	--	.0	--	--	--

DATE	TIME	SAMP- LING DEPTH (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHGS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
NOV 03...	0915	.5	216	8.5	21.0	5.5
NOV 03...	0916	13	--	7.7	20.5	4.5
FEB 23...	0930	.5	221	7.9	7.0	13.4
FEB 23...	0932	15	210	9.2	7.0	13.0
APR 06...	0840	.5	262	8.3	20.5	8.8
APR 06...	0842	18	275	7.4	17.0	1.5
JUL 27...	0801	.5	270	7.6	29.5	2.3
JUL 27...	0802	5.0	270	7.5	29.5	2.2
JUL 27...	0803	10	270	7.4	29.5	2.2
JUL 27...	0804	13	275	7.4	29.5	.1
JUL 27...	0805	.5	247	7.1	29.5	2.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07371515 MUDDY CREEK AT LA 4, NEAR DANVILLE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS, DIS- SOLVED (MG/L CAC03)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 19...	1145	36	7.4	17.0	20	12	5	2.0	1.7	3.0	1.3
FEB 07...	1130	59	7.9	2.5	20	10	7	3.2	.5	4.5	2.2
JUN 22...	1050	--	6.6	--	--	25	0	--	--	--	--
SEP 20...	1030	75	6.5	23.0	75	21	6	6.0	1.5	4.0	1.7

DATE	BICAR- BONATE (MG/L AS HC03)	CAR- BONATE (MG/L AS C03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS NO3)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 19...	9	0	4.6	5.0	.1	19	42	41	.06	360	480
FEB 07...	4	0	10	4.9	.1	9.7	57	37	.14	460	280
JUN 22...	37	0	3.2	2.9	.3	--	--	--	--	910	5800
SEP 20...	18	0	5.6	6.0	.3	21	92	64	.74	1700	6000

07371540 FOUSE BAYOU AT LA 155, NEAR DANVILLE, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS, DIS- SOLVED (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)	BICAR- BONATE (MG/L AS HC03)
OCT 19...	1315	37	7.6	14.5	10	8	0	--
JUN 22...	1000	--	7.2	--	--	40	1	48

DATE	CAR- BONATE (MG/L AS C03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 19...	--	--	--	--	40	34	--	--
JUN 22...	0	6.2	77	.2	--	--	340	1200

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07373144 LITTLE RIVER NEAR ROGERS, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED AS (MG/L CAC03)	HARDNESS, NONCARBONATE, DIS-SOLVED AS (MG/L CAC03)
NOV 01...	0825	450	7.6	21.5	60	20	7.2	--	<5	K10	31	0
MAR 02...	1215	190	6.3	11.5	80	20	10.7	3.7	K13000	250	21	2
APR 12...	1330	301	7.3	20.0	100	15	6.8	1.2	--	--	34	15
AUG 03...	1220	281	7.5	34.5	40	35	10.4	2.8	K780	2400	24	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	PCTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE AS (MG/L AS HC03)	CARBONATE AS (MG/L AS C03)	ALKALINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)
NOV 01...	9.1	2.0	77	83	6.0	3.5	56	0	46	54	71	.0
MAR 02...	5.6	1.7	27	71	2.6	2.2	23	0	19	34	22	.1
APR 12...	9.6	2.5	44	72	3.3	2.4	23	0	19	29	55	.1
AUG 03...	6.7	1.8	47	79	4.2	2.3	38	0	31	16	59	.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIG2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N03)	NITROGEN, NITRATE TOT IN BOT MAT (MG/KG AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N02)	NITROGEN, NITRATE TOT IN BOT MAT (MG/KG AS N)
NOV 01...	16	262	261	.36	.03	.00	.00	2.0	.01	.02	.07	.0
MAR 02...	12	131	117	.18	--	.13	.58	--	.02	.02	.07	--
APR 12...	9.8	177	165	.24	.06	.05	.22	.00	.01	.01	.03	.0
AUG 03...	14	165	166	.22	.05	.05	.22	.00	.02	.01	.03	1.5

DATE	NITROGEN, NO2+N03 TOTAL (MG/L AS N)	NITROGEN, NO2+N03 DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+N03 TOT. IN BOT MAT (MG/KG AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA IN BOT MAT. (MG/KG AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N04)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)
NOV 01...	.04	.02	2.0	.14	.04	1.0	.05	.62	.50	.76	.22	.54
MAR 02...	--	.15	--	--	.19	--	.24	--	.91	--	--	1.1
APR 12...	.07	.06	.0	.11	.01	5.3	.01	.70	.37	.81	.43	.38
AUG 03...	.07	.06	1.5	.12	.01	43	.01	.66	.47	.78	.30	.48

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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RED RIVER BASIN

07373144 LITTLE RIVER NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO- GEN+NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	NITRO- GEN+TOT IN BOT- TOM MA- TERIAL (MG/KG AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS, TOTAL (MG/L AS P04)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, DIS- SOLVED (MG/L AS P04)
NOV 01...	42	.80	3.5	43	.09	.28	.28	.03	.03	.01	.03
MAR 02...	--	--	--	--	.08	.25	.25	.02	.02	.02	.06
APR 12...	253	.88	3.9	277	.09	.28	.28	.02	.02	.01	.03
AUG 03...	746	.85	3.8	865	.08	.25	.25	.02	.06	.01	.03

DATE	PHOS- PHORUS, HYDRO- + ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS, ORGANIC TOTAL (MG/L AS P)	PHOS- PHORUS, ORGANIC DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, TOTAL IN BOT- TOM MA- TERIAL (MG/KG AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
NOV 01...		.07	.00	.01	48	7.3	.00	5
MAR 02...		.05	.03	.00	--	12	--	320
APR 12...		.03	.04	.01	150	13	.00	5800
AUG 03...		.05	.01	.01	190	10	--	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM TOTAL FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, TOTAL FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, TOTAL FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, TOTAL FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 01...	1	1	0	0	6	0	2	1	250	830	1	2
MAR 02...	1	--	2	--	--	0	6	--	200	--	1	--
APR 12...	3	3	0	0	0	0	2	0	610	830	3	3
AUG 03...	1	--	1	--	--	0	3	--	440	--	0	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY TOTAL FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, TOTAL FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)
NOV 01...	20	36	.0	.0	20	4	.0	0	.00	.00	.0	.0
MAR 02...	90	--	--	--	20	--	--	--	--	--	--	--
APR 12...	70	85	.0	.0	10	6	--	--	--	--	--	--
AUG 03...	130	--	--	--	5	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

07373144 LITTLE RIVER NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)
NOV 01...	0	.00	.6	.00	.6	.00	.0	.00	.0	.00	.0	.00
MAR 02...	--	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 01...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
MAR 02...	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	--	--

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- PHE E, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 01...	.00	.0	.00	.0	.00	.00	.0	0	0	.00	.0
MAR 02...	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	--	--

DATE	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 01...	.00	.00	.00

07373144 LITTLE RIVER NEAR ROGERS, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

NOV. 1, 1977 0825 HOURS

PHYTOPLANKTON 24,000 CELLS/ML

__ORGANISM__NAME__	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...CHARACIACEAE		
...SCHROEDERIA	120	0
...OOCYSTACEAE		
...ANKISTRODESMUS	400	2
...TETRAEDRON	58	0
...SCENEDESMACEAE		
...CRUCIGENIA	1,600	7
...SCENEDESMUS	1,000	4
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
...CHLAMYDOMONAS	690	3
...VOLVOCACEAE		
...GONIUM	14,000	58
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
...CYCLOTELLA	290	1
..PENNALES		
...FRAGILARIACEAE		
...SYNEDRA	230	1
...NAVICULACEAE		
...NAVICULA	120	0
...NITZSCHIACEAE		
...NITZSCHIA	170	1
CYANOPHYTA		
..CYANOPHYCEAE		
...CHROCCOCCALES		
...CHROCCOCCAEAE		
...AGMENELLUM	2,800	11
EUGLENOPHYTA		
..EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
...TRACHELOMONAS	2,700	11

MAR. 2, 1978 1215 HOURS

PHYTOPLANKTON 320 CELLS/ML

__ORGANISM__NAME__	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...OOCYSTACEAE		
...ANKISTRODESMUS	16	5
...KIRCHNERIELLA	16	5
...SCENEDESMACEAE		
...SCENEDESMUS	63	20
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
...CYCLOTELLA	55	18
..PENNALES		
...NAVICULACEAE		
...NAVICULA	16	5
...NITZSCHIACEAE		
...NITZSCHIA	24	8
CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...SYNURACEAE		
...SYNURA	130	40

APR. 12, 1978 1330 HOURS

PHYTOPLANKTON 5,800 CELLS/ML

__ORGANISM__NAME__	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...OOCYSTACEAE		
...ANKISTRODESMUS	480	8
...CHLORELLA	24	0
...CHODATELLA		0
...DICTYOSPHAERIUM	240	4
...OOCYSTIS	95	2
...SELENASTRUM	260	4
...TETRAEDRON	48	1
...SCENEDESMACEAE		
...CRUCIGENIA	480	8
...SCENEDESMUS	1,500	27
...TETRASTRUM	190	3
..VOLVOCALES		
...VOLVOCACEAE		
...PANDORINA	570	10
CHRYSOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
...CYCLOTELLA	360	6
..PENNALES		
...NITZSCHIACEAE		
...NITZSCHIA	210	4
..XANTHOPHYCEAE		
...HETEROCOCCALES		
...CENTRITRACTACEAE		
...CENTRITRACTUS	48	1
CYANOPHYTA		
..CYANOPHYCEAE		
...CHROCCOCCALES		
...CHROCCOCCAEAE		
...ANACYSTIS	740	13
..HORMOGONALES		
...OSCILLATORIACEAE		
...OSCILLATORIA	210	4
EUGLENOPHYTA		
..EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
...EUGLENA	48	1
...TRACHELOMONAS	240	4
PYRRHOPHYTA		
..DINOPHYCEAE		
..PERIDINIALES		
...PERIDINIACEAE		
...PERIDINIUM	48	1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

312815092092000 CATAHOULA LAKE NEAR ROGERS, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, U.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED (MG/L AS CaCO3)	HARDNESS, NONCARBONATE, DIS-SOLVED (MG/L AS CaCO3)
NOV 01...	0840	440	7.3	21.5	80	80	6.8	--	K20	500	59	16
MAR 02...	1155	145	6.4	11.5	80	40	10.6	2.5	9200	280	20	2
APR 12...	1310	189	7.4	19.0	80	45	8.6	1.3	--	--	30	11

DATE	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CaCO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	FLUORIDE, DIS-SOLVED (MG/L AS F)
NOV 01...	20	2.2	74	72	4.2	3.4	53	0	43	54	91	.1
MAR 02...	5.4	1.5	19	65	1.9	1.9	22	0	18	21	16	.0
APR 12...	8.3	2.2	24	62	1.9	2.1	23	0	19	19	32	.1

DATE	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITROGEN, NITRATE BOT MAT (MG/KG AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)
NOV 01...	15	258	287	.35	.02	.03	.13	1.3	.02	.00	.00	.0
MAR 02...	10	103	87	.14	.20	.18	.80	--	.01	.00	.00	--
APR 12...	7.4	115	108	.16	.22	.22	.97	29	.02	.02	.07	.0

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA IN BOT MAT (MG/KG AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
NOV 01...	.04	.03	1.3	.20	.20	13	.26	1.5	.68	1.7	.82	.88
MAR 02...	.21	.18	--	.15	.10	--	.13	.67	.39	.82	.33	.49
APR 12...	.24	.24	29	--	.03	52	.04	--	.64	.67	.00	.67

DATE	NITROGEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	NITROGEN, TOT. MATERIAL (MG/KG AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHATE, TOTAL (MG/L AS PO4)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO. TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO. DIS-SOLVED (MG/L AS P)	PHOSPHATE, ORTHO. DIS-SOLVED (MG/L AS PO4)
NOV 01...	27	1.7	7.7	25	.23	.71	.71	.03	.03	.01	.03
MAR 02...	--	1.0	4.6	--	.09	.28	.28	.02	.01	.01	.03
APR 12...	1300	.91	4.0	1310	.10	.31	.31	.03	.03	.01	.03

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

RED RIVER BASIN

312815092092000 CATAHOULA LAKE NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

		PHOS- PHORUS, HYDRO- + ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS, ORGANIC TOTAL (MG/L AS P)	PHOS- PHORUS, ORGANIC DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, TOTAL IN BOT. MAT. (MG/KG AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)			
		NOV 01...	MAR 02...	APR 12...								

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

312815092092000 CATAHOULA LAKE NEAR ROGERS, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 01...	.00	.0	.00	.0	.00	.00	.0	0	0	.00	.0
MAR 02...	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--

DATE	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 01...	.00	.00	.00

312815092092000 CATAHOULA LAKE NEAR ROGERS, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

NOV. 1, 1977 0840 HOURS

PHYTOPLANKTON 8,900 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...CHARACIACEAE		
....SCHROEDERIA	780	9
...OOCYSTACEAE		
....ANKISTRODESMUS	490	6
....KIRCHNERIELLA		0
...SCENEDESMACEAE		
....SCENEDESMUS	780	9
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	1,800	21
....MELOSIRA	1,400	16
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	71	1
...DIATOMACEAE		
....DIATOMA	71	1
...EUNOTIACEAE		
....EUNOTIA	210	2
...FRAGILARIACEAE		
....SYNEDRA	640	7
...GOMPHONEMACEAE		
....GOMPHONEMA	280	3
...NAVICULACEAE		
....GYROSIGMA	210	2
....NAVICULA	350	4
...NITZSCHIACEAE		
....NITZSCHIA	1,200	13
...SURIRELLACEAE		
....SURIRELLA	210	2
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	71	1
....TRACHELOMONAS	280	3

MAR. 2, 1978 1155 HOURS

PHYTOPLANKTON 1,000 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	110	11
....DICTYOSPHAERIUM	400	38
....KIRCHNERIELLA	12	1
...SCENEDESMACEAE		
....SCENEDESMUS	12	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	53	5
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	6	1
...FRAGILARIACEAE		
....SYNEDRA	18	2
...GOMPHONEMACEAE		
....GOMPHONEMA	23	2
...NAVICULACEAE		
....GYROSIGMA	12	1
....NAVICULA	110	10
....PINNULARIA	23	2
...NITZSCHIACEAE		
....NITZSCHIA	150	14
CYANOPHYTA		
.CYANOPHYCEAE		
..CHROCOCCALES		
...CHROCOCCACEAE		
....ANACYSTIS	99	10
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	18	2
....TRACHELOMONAS	6	1

APR. 12, 1978 1310 HOURS

PHYTOPLANKTON 2,200 CELLS/ML

ORGANISM NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
...OOCYSTACEAE		
....KIRCHNERIELLA	210	10
...OOCYSTIS	120	5
...SCENEDESMACEAE		
....SCENEDESMUS	180	8
....TETRASTRUM	120	5
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTETLS	91	4
....MELOSIRA	240	11
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	30	1
...FRAGILARIACEAE		
....SYNEDRA	30	1
...NAVICULACEAE		
....NAVICULA	91	4
CYANOPHYTA		
.CYANOPHYCEAE		
..CHROCOCCALES		
...CHROCOCCACEAE		
....ANACYSTIS	790	36
..HORMOGONALES		
...OSCILLATORIACEAE		
....LYNGBYA	240	11
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	60	3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

312910092072000 CATAHOULA LAKE NEAR DEVILLE, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS./100 ML)	HARDNESS, DIS-SOLVED (MG/L CAC03)	HARDNESS, NONCARBONATE, DIS-SOLVED (MG/L CAC03)
NOV 01...	0855	440	7.4	21.5	80	50	8.2	.7	K50	3300	29	0
MAR 02...	1140	126	6.3	11.0	120	65	10.7	2.4	8400	2300	19	0
APR 12...	1255	176	7.4	20.0	80	120	8.2	1.2	--	--	27	10
AUG 03...	1050	320	7.3	29.0	70	110	6.9	4.5	21000	9900	41	2

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HC03)	CARBONATE (MG/L AS C03)	ALKALINITY, TOTAL (MG/L AS CAC03)	SULFATE, DIS-SOLVED (MG/L AS S04)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)
NOV 01...	8.5	2.0	75	83	6.0	3.5	50	0	41	47	79	.0
MAR 02...	5.1	1.5	16	62	1.6	1.8	25	0	21	12	18	.0
APR 12...	7.3	2.1	22	62	1.8	2.0	21	0	17	18	30	.0
AUG 03...	11	3.4	47	70	3.2	2.1	48	0	39	11	70	.1

DATE	SILICA, DIS-SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N03)	NITROGEN, NITRATE TOT IN BOT MAT (MG/KG AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N02)	NITROGEN, NITRATE TOT IN BOT MAT (MG/KG AS N)
NOV 01...	14	252	254	.34	.04	.04	.18	1.1	.04	.04	.13	.0
MAR 02...	8.9	85	77	.12	.27	.27	1.2	--	.04	.04	.13	--
APR 12...	8.0	101	101	.14	.22	.15	.66	5.7	.04	.01	.03	.2
AUG 03...	11	178	180	.24	.04	.04	.18	3.6	.02	.00	.03	3.5

DATE	NITROGEN, NO2+N03 (MG/L AS N)	NITROGEN, NO2+N03 DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+N03 TOT. IN BOT MAT (MG/KG AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA IN BOT. MAT. (MG/KG AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)
NOV 01...	.08	.08	1.1	.10	.10	1.1	.13	1.0	1.0	1.1	.00	1.1
MAR 02...	.31	.31	--	.20	.20	--	.26	.90	.61	1.1	.29	.81
APR 12...	.26	.16	5.9	.14	.01	11	.01	.42	.38	.56	.17	.39
AUG 03...	.06	.05	7.1	.32	.01	55	.01	1.3	.64	1.6	.95	.65

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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RED RIVER BASIN

312910092072000 CATAHOULA LAKE NEAR DEVILLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO- GEN+NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN TOTAL (MG/L AS N)	NITRO- GEN TOTAL (MG/L AS NO3)	NITRO- GEN+TOT IN BOT- TOM MA- TERIAL (MG/KG AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHATE TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHATE DIS- SOLVED TOTAL (MG/L AS PO4)
NOV 01...	57	1.2	4.2	69	.12	.37	.37	.04	.03	.01	.03
MAR 02...	--	1.4	6.2	--	.18	.55	.55	.03	.04	.01	.03
APR 12...	1300	.82	3.6	1300	.17	.52	.52	.02	.06	.01	.03
AUG 03...	640	1.7	7.3	638	.15	.46	.46	.03	.07	.02	.06

DATE	PHOS- PHORUS HYDRO- + ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORGANIC TOTAL (MG/L AS P)	PHOS- PHORUS ORGANIC DIS- SOLVED TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL IN BOT- TOM MA- TERIAL (MG/KG AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)
NOV 01...	.10	.00	.00	120	11	.00	2	11000
MAR 02...	.15	.00	.01	--	13	--	--	510
APR 12...	.11	.02	.01	1200	9.0	.00	1	210
AUG 03...	.11	.04	.02	1300	16	--	--	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 01...	0	12	0	0	2	0	2	12	140	8300	2	9
MAR 02...	0	--	2	--	--	0	7	--	140	--	20	--
APR 12...	2	28	0	0	4	0	5	7	230	26000	4	32
AUG 03...	1	--	1	--	--	0	5	--	220	--	2	--

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCB, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR- TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)
NOV 01...	100	400	.0	.1	20	48	.0	0	.00	.00	.0	.0
MAR 02...	10	--	--	--	10	--	--	--	--	--	--	--
APR 12...	30	930	.0	.1	10	26	--	--	--	--	--	--
AUG 03...	220	--	--	--	8	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

312910092072000 CATAHOULA LAKE NEAR DEVILLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDU, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)
NOV 01...	0	.00	.0	.00	.0	.00	.0	.01	.0	.00	.0	.00
MAR 02...	--	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 01...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
MAR 02...	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	--	--

DATE	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)
NOV 01...	.00	.0	.00	.0	.00	.00	.0	0	0	.00	.0
MAR 02...	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	--	--	--	--

DATE	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 01...	.00	.00	.00

312910092072000 CATAHOULA LAKE NEAR DEVILLE, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

NOV. 1, 1977 0855 HOURS

APR. 12, 1978 1255 HOURS

PHYTOPLANKTON 11,000 CELLS/ML

PHYTOPLANKTON 210 CELLS/ML

_ORGANISM_NAME	CELLS/ML	PER_CENT	_ORGANISM_NAME	CELLS/ML	PER_CENT
CHLOROPHYTA			CHLOROPHYTA		
.CHLOROPHYCEAE			.CHLOROPHYCEAE		
..CHLOROCOCCALES			..CHLOROCOCCALES		
...CHARACIACEAE			...SCENEDESMACEAE		
....SCHROEDRIA	76	1	SCENEDESMUS	86	40
...OOCYSTACEAE			CHRYSTOPHYTA		
....ANKISTRODESMUS	150	1	.BACILLARIOPHYCEAE		
....KIRCHNERIELLA	38	0	..CENTRALES		
...SCENEDESMACEAE			...COSCINODISCACEAE		
....SCENEDESMUS	530	5	MELOSIRA	43	20
CHRYSTOPHYTA			..PENNALES		
.BACILLARIOPHYCEAE			...GOMPHONEMACEAE		
..CENTRALES			GOMPHONEMA	14	7
...COSCINODISCACEAE			...NITZSCHIACEAE		
....CYCLOTELLA	610	6	NITZSCHIA	14	7
....MELOSIRA	460	4	EUGLENOPHYTA		
..PENNALES			.EUGLENOPHYCEAE		
...DIATOMACEAE			..EUGLENALES		
....DIATOMA	110	1	...EUGLENACEAE		
...GOMPHONEMACEAE			PHACUS	14	7
....GOMPHONEMA	38	0	TRACHELOMONAS	43	20
...NAVICULACEAE					
....CALONEIS	110	1			
....GYROSIGMA	76	1			
...NAVICULA	570	5			
...NITZSCHIACEAE					
....NITZSCHIA	840	8			
...SURIPELLACEAE					
....SURIPELLA	76	1			
.XANTHOPHYCEAE					
..HETEROCOCCALES					
...CHLOROTHECIACEAE					
....OPHIOCYTIUM	38	0			
CYANOPHYTA					
.CYANOPHYCEAE					
..CHROCOCCALES					
...CHROCOCCACEAE					
....AGMENELLIUM	840	8			
....ANACYSTIS	5,800	53			
EUGLENOPHYTA					
.EUGLENOPHYCEAE					
..EUGLENALES					
...EUGLENACEAE					
....PHACUS	76	1			
....TRACHELOMONAS	500	5			

MAR. 2, 1978 1140 HOURS

PHYTOPLANKTON 510 CELLS/ML

_ORGANISM_NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	56	11
....DICTYOSPHAERIUM	110	22
CHRYSTOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	56	11
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	19	4
...NAVICULACEAE		
....NAVICULA	56	11
...NITZSCHIACEAE		
....NITZSCHIA	75	15
...SURIPELLACEAE		
....SURIPELLA	19	4
EUGLENOPHYTA		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....PHACUS	9	2
....TRACHELOMONAS	110	22

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

313355092042000 CATAHOULA LAKE NEAR WHITEHALL, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	HARDNESS, DIS-SOLVED AS CaCO3	HARDNESS, NONCARBONATE, DIS-SOLVED (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)
MAR 02...	1115	122	6.3	11.0	100	110	10.7	2.7	18	0	6.8	.3
APR 12...	1235	171	7.6	20.0	100	150	7.9	1.1	27	8	7.1	2.2

DATE	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
MAR 02...	15	61	1.5	1.8	22	0	18	8.5	20	.0	8.7	79
APR 12...	21	61	1.8	2.1	23	0	19	17	27	.1	8.6	109

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITROGEN, NITRATE BOT MAT (MG/KG AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)
MAR 02...	74	.11	--	.27	1.2	--	--	.00	.00	--	.12	
APR 12...	98	.15	.23	.23	1.0	.00	.04	.04	.13	.3	.27	

DATE	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)
MAR 02...	.27	--	.22	.22	--	.28	1.6	1.4	1.9	.30	1.6
APR 12...	.27	.0	.20	.01	28	.01	.66	.33	.86	.52	.34

DATE	NITROGEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	NITROGEN, TOTAL IN BOT. MAT. (MG/KG AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHATE, TOTAL (MG/L AS P04)	PHOSPHORUS, TOTAL (MG/L AS P04)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO. TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO. DIS-SOLVED (MG/L AS P)	PHOSPHATE, ORTHO. DIS-SOLVED (MG/L AS P04)
MAR 02...	--	--	--	--	.25	.77	.77	.02	.06	.01	.03
APR 12...	1610	.23	5.0	1650	.23	.71	.71	.02	.08	.00	.00

DATE	PHOSPHORUS, HYDRO. + ORTHO. TOTAL (MG/L AS P)	PHOSPHORUS, ORGANIC TOTAL (MG/L AS P)	PHOSPHORUS, ORGANIC DIS-SOLVED (MG/L AS P)	PHOSPHORUS, TOTAL IN BOT. MAT. (MG/KG AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PHYTOPLANKTON, TOTAL (CELLS PER ML)
MAR 02...	.21	.00	.00	--	14	--	--	880
APR 12...	.17	.00	.01	650	11	.00	3	260

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 1977 TO SEPTEMBER 1978

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
MAR 02...	0	--	2	--	--	0	7	--	130
APR 12...	3	12	1	0	4	0	11	8	180

DATE	IRON, RECov. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECov. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECov. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECov- ERABLE (UG/L AS HG)	MERCURY RECov. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECov. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
MAR 02...	--	1	--	60	--	--	--	10	--
APR 12...	12000	4	30	140	290	.0	.1	20	31

313355092042000 CATAHOULA LAKE NEAR WHITEHALL, LA--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

MAR. 2, 1978 1115 HOURS

PHYTOPLANKTON 880 CELLS/ML

_ORGANISM_NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	220	25
....CHODATELLA	7	1
....OOCYSTIS	29	3
...SCENEDESMACEAE		
....CRUCIGENIA	29	3
...SCENEDESMUS	43	5
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	7	1
CHRYSTOPHYTA		
..BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCEACEAE		
....CYCLOTELLA	29	3
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	22	2
...GOMPHONEMACEAE		
....GOMPHONEMA	29	3
...NAVICULACEAE		
....NAVICULA	22	2
...NITZSCHACEAE		
....NITZSCHIA	110	12
CYANOPHYTA		
..CYANOPHYCEAE		
...CHROCOCCALES		
...CHROCOCCACEAE		
....ANACYSTIS	43	5
...HORMOGONALES		
...OSCILLATORIACEAE		
....LYNGBYA	72	8
EUGLENOPHYTT		
..EUGLENOPHYCEAE		
...EUGLENALES		
...EUGLENACEAE		
....EUGLENA	22	2
....TRACHELOMONAS	200	23

APR. 12, 1978 1235 HOURS

PHYTOPLANKTON 260 CELLS/ML

_ORGANISM_NAME	CELLS/ML	PER_CENT
CHLOROPHYTA		
..CHLOROPHYCEAE		
...CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	14	5
....KIRCHNERIELLA	14	5
CYANOPHYTA		
..CYANOPHYCEAE		
...HORMOGONALES		
...OSCILLATORIACEAE		
....LYNGBYA	180	68
EUGLENOPHYTA		
..EUGLENOPHYCEAE		
...EUGLENALES		
...EUGLENACEAE		
....PHACUS	14	5
....TRACHELOMONAS	41	16

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07373227 DEVILS CREEK NORTHWEST OF NEBO, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
APR 04...	1500	1090	320

07373228 DEVILS CREEK WEST OF NEBO, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
APR 04...	1400	1480	6.6	22.0	450

07373230 DEVILS CREEK AT STATE HIGHWAY 127, NEAR NEBO, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
APR 04...	1300	2110	6.6	650

07373231 DEVILS CREEK WEST OF STATE HIGHWAY 777 NEAR NEBO, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
APR 04...	1145	2140	6.4	20.0	0	94	87	24	6.3	390	7.3

DATE	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS NO3)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
APR 04...	9	0	.2	650	.0	14	1180	1100	.79	180	630

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07373232 DEVILS CREEK SOUTH OF NEBO, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
APR 04...	1200	2280	6.7	23.0	710

313625092110900 DEVILS CREEK 2.9 MILES NORTHWEST OF NEBO, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
APR 04...	1600	1030	6.1	300

313625092111000 DEVILS CREEK TRIBUTARY 3.0 MILES NORTHWEST OF NEBO, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
APR 04...	1600	41	6.8	5.0

07373269 BLACK RIVER NEAR SERENA, 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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 KF AGAR UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CACO3)
NOV 04...	1140	730	7.8	22.5	70	15	5.9	1.4	K5	K35	130	15
FEB 24...	0920	216	6.4	7.0	60	55	11.4	2.7	1900	310	32	11
APR 07...	0830	186	6.6	17.5	30	15	8.2	2.0	K16	84	35	15
JUL 28...	0915	246	6.8	31.0	55	25	2.7	1.0	K200	530	61	8

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 04...	34	11	83	57	3.2	4.0	140	0	110	25	130
FEB 24...	11	1.1	23	59	1.8	2.4	25	0	21	15	38
APR 07...	14	.0	18	51	1.3	2.0	24	0	20	11	34
JUL 28...	17	4.5	23	44	1.3	2.7	65	0	53	7.5	38

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

RED RIVER BASIN

07373269 BLACK RIVER NEAR SERENA, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 04...	.2	9.8	378	366	.51	.41	.56	.97	4.3	.35	7.8
FEB 24...	.1	8.5	118	111	.16	.23	.93	1.2	5.1	.15	--
APR 07...	.1	6.0	107	97	.15	.12	.45	.57	2.5	.05	--
JUL 28...	.1	9.4	141	134	.19	.34	.61	.95	4.2	.15	--

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
NOV 04...	1	6	0	<1	2	0	1	2	130	3200	0	<10

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL (UG/KG)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
NOV 04...	80	240	.0	.0	10	14	.00	3	.0	2	.00	

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
NOV 04...	.00	.0	.0	0	.00	10	.00	10	.00	4.0	.00

DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
NOV 04...	.0	.00	.1	.00	.0	.00	.0	.00	.0	.00	.0

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 04...	.00	.0	.00	.0	.01	.0	.00	.0	.00	.00	.0

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

07373269 BLACK RIVER NEAR SERENA, LA--Continued

DATE	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV 04...	0	9	.00	.0	.01	.06	.00

CALCASTEU RIVER BASIN

304552093072500 BUNDICK LAKE NEAR SUGARTOWN, LA

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CUBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER AS	HARD- NESS, DIS- SOLVED BONATE, DIS- (MG/L (MG/L	HARD- NESS, NONCAR- BONATE, DIS- (MG/L (MG/L
NOV 15...	1500	65	6.7	17.0	220	45	8.6	2.5	K40	K80	14	6
FEB 13...	1600	59	5.8	13.0	55	20	9.7	1.7	590	4000	12	0
APR 18...	1400	66	6.6	24.5	30	5	7.9	1.7	<5	K25	11	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKAL- INITY, TOTAL AS (CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 15...	3.6	1.1	6.7	47	.8	2.3	18	0	7	6.4	7.2
FEB 13...	3.0	1.1	5.9	48	.7	1.4	22	0	18	4.4	7.5
APR 18...	2.9	1.0	7.0	53	.9	1.6	20	0	16	3.2	7.6

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTIT- UENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N+3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 15...	.1	13	46	45	.06	.23	.94	1.2	5.2	.25	--
FEB 13...	.0	13	46	47	.06	.29	.54	.83	3.7	.19	6.7
APR 18...	.0	8.7	48	42	.07	.02	.47	.49	2.2	.13	--

	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CR)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
FEB 13...	1	6	0	0	40	0	3	8	170	2400	3	100

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CALCASIEU RIVER BASIN

304552093072500 BUNDICK LAKE NEAR SUGARTOWN, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MANGANESE, DIS- SOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 13...	60	2200	.4	.0	10	460	.00	2	.0	0	.00	.0

DATE	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 13...	.00	.0	.0	0	.00	3.8	.00	4.1	.00	.0	.01	.0

DATE	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)
FEB 13...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	METHYL THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 13...	.0	.00	.0	.00	.0	.00	.0	.00	1.2	.00	.0

DATE	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB 13...	0	0	.00	.0	.00	.03	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CALCASIEU RIVER BASIN

08014880 BUNDICK LAKE NEAR DRY CREEK, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECA, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECA, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED AS (MG/L CaCO3)	HARDNESS, NONCARBONATE DIS. (MG/L CaCO3)
NOV 15...	1530	71	7.2	16.5	25	5	8.8	1.8	<5	260	11	0
FEB 13...	1430	37	5.5	9.5	65	25	10.0	1.4	K10	<5	7	3
APR 18...	1330	67	6.5	22.0	30	5	9.6	--	K15	100	9	0
JUL 10...	1500	61	6.2	35.5	20	2	--	--	--	--	11	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)
NOV 15...	2.8	1.0	8.7	58	1.1	2.2	22	0	18	7.8	7.9
FEB 13...	2.4	.2	3.0	43	.5	1.4	5	0	4	4.2	4.5
APR 18...	1.9	1.1	7.1	57	1.0	1.7	19	0	16	4.4	7.7
JUL 10...	2.3	1.2	5.9	49	.8	2.1	17	0	14	4.0	5.8

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 15...	.1	15	64	56	.09	.04	.37	.41	1.8	.08	--
FEB 13...	.0	5.4	27	24	.04	.26	.61	.87	3.9	.11	8.5
APR 18...	.0	7.4	47	41	.06	.02	.75	.77	3.4	.12	--
JUL 10...	.1	9.6	52	39	.07	.00	.95	.95	4.2	.04	--

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)
FEB 13...	0	2	0	0	20	0	3	3	130	1400	3	0

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

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

CALCASIEU RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

08014880 BUNDICK LAKE NEAR DRY CREEK, LA--Continued

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
FEB 13...	60	1500	.2	.0	10	100	.00	5	.0	0	.00

DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
FEB 13...	.00	.0	.0	1	.00	.3	.00	.2	.00	.0	.00

DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
FEB 13...	.0	.00	.1	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 13...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	TOXA- PHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB 13...	0	0	.00	.0	.00	.02	.00

08023400 BAYOU SAN PATRICIO NEAR BENSON, 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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED AS CAC03)	HARD- NESS, NONCAR- BONATE, DIS. (MG/L CAC03)
FEB 15...	0900	112	5.7	6.5	80	25	9.9	3.8	K800	5400	22	16
APR 19...	1130	90	6.1	17.0	50	25	6.7	3.8	K2800	5200	18	7
MAY 09...	1100	180	6.6	22.5	80	15	6.5	--	K95	K2400	39	5
JUN 13...	1030	194	6.5	24.0	80	20	4.0	1.3	100	240	51	0

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CALCASIEU RIVER BASIN

08023400 BAYOU SAN PATRICIO NEAR BENSON, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACU3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	
FEB 15...	5.0	2.4	10	46	.9	2.7	8	0	7	18	16	
APR 19...	3.7	2.1	7.6	43	.8	2.9	13	0	11	12	11	
MAY 09...	8.5	4.4	17	46	1.2	3.5	42	0	34	10	22	
JUN 13...	13	4.4	19	42	1.2	5.2	62	0	51	6.8	25	
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN+AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N+U3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	
FEB 15...	.0	9.3	75	68	.10	.41	.83	1.2	5.5	2.5	12	
APR 19...	.0	8.1	82	54	.11	.08	.98	1.1	4.7	.12	--	
MAY 09...	.1	19	119	105	.16	.40	1.1	1.5	6.6	.17	--	
JUN 13...	.1	16	129	120	.18	.34	.66	1.0	4.4	.25	--	
DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)
FEB 15...	1	7	0	0	30	0	1	4	180	5000	3	0
DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL (UG/KG)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)
FEB 15...	80	10000	.0	.0	20	150	.00	6	.0	0	.00	.00
DATE	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)
FEB 15...	.00	.0	.0	.0	5	.00	1.0	.00	5.2	.00	4.0	<.01
DATE	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL (UG/KG)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	
FEB 15...	.0	.00	.3	.00	.0	.00	.0	.00	.0	.00	.1	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CALCASIEU RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

08023400 BAYOU SAN PATRICIO NEAR BENSON, LA--Continued

DATE	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 15...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.0

DATE	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB 15...		0	0	.00	.0	.02	.02

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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 16...	0900	148	6.7	18.5	15	15	9.4	--	4.6	<5
FEB 14...	1500	83	5.6	11.0	120	55	10.4	41	3.0	3000
APR 19...	0910	198	6.8	22.0	70	8	8.1	--	4.8	K5
JUL 12...	1030	157	6.6	31.5	20	8	6.3	--	--	--

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AB- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV 16...	K80	34	0	7.4	3.7	17	49	3.4
FEB 14...	5400	16	11	4.0	1.5	7.8	47	2.3
APR 19...	280	40	8	7.7	5.0	20	50	2.7
JUL 12...	100	33	3	6.7	3.9	17	50	3.5

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SABINE RIVER BASIN

08024040 BAYOU SAN MIGUEL SOUTHWEST OF ZWOLLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	BICARBONATE (MG/L AS HC03)	CARBONATE (MG/L AS CO3)	ALKALINITY, TOTAL (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLORIDE, DIS- SOLVED (MG/L AS CL)	FLUORIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 100 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
NOV 16...	44	0	36	13	16	.1	.8	103	83
FEB 14...	6	0	5	12	11	.0	6.1	67	48
APR 19...	37	0	32	19	23	.1	2.2	121	99
JUL 12...	36	0	30	12	20	.1	5.5	99	86

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, SUSP. TOTAL RESIDUE AT 110 DEG. C (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 16...	.14	--	--	--	.05	.96	4.3	.08	9.4
FEB 14...	.09	37	.14	.03	.17	--	--	.18	15
APR 19...	.16	--	--	--	.04	1.0	4.4	.08	13
JUL 12...	.13	--	--	--	.01	2.2	9.8	.04	11

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
FEB 14...	1	0	1	10	0	0	0	0	0	0

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHROMIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	CHROMIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)
FEB 14...	5	10	50	0	6	3	3	5	190	4500

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
FEB 14...	8	5	3	0	9500	.5	.5	.0	.0	14

DATE	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	VANADIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
FEB 14...	14	0	0	0	0	.0	20	0	20	130

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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SABINE RIVER BASIN

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

08024040 BAYOU SAN MIGUEL SOUTHWEST OF ZWOLLE, LA--Continued

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 14...	.00	6	0	.0	0	.00	.00	.0	.0	0	.00	.1

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 14...	.00	.2	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- EPOXIDE TOTAL (UG/L)	HEPTA- EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL THI- THION, TOTAL (UG/L)
FEB 14...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB 14...	.0	.00	.00	.0	0	0	.00	.0	.03	.01	.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)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 16...	1000	216	6.8	18.0	10	2	8.6	--	1.7	<5
FEB 14...	1600	159	6.1	8.0	100	30	11.2	32	2.9	K20
APR 19...	0840	205	7.0	22.0	15	5	9.4	--	3.5	<5
JUL 12...	0900	245	6.8	32.0	5	2	7.0	--	--	140

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

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

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SABINE RIVER BASIN

08024200 BAYOU LA NANA NEAR ZWOLLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS, DIS- SOLVED (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE, DIS- (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AU- SORF- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
NOV 16...	K40	48	14	12	4.3	26	52	1.6	3.4
FEB 14...	K30	29	18	8.5	1.9	16	52	1.3	2.3
APR 19...	210	39	16	8.5	4.2	20	51	1.4	2.7
JUL 12...	960	44	14	10	4.7	27	55	1.8	3.2

DATE	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY, TOTAL (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 100 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
NOV 16...	41	0	34	19	34	.1	6.3	145	125
FEB 14...	14	0	11	22	22	.0	8.6	107	88
APR 19...	28	0	23	23	28	.1	6.2	120	106
JUL 12...	37	0	30	22	37	.1	4.9	135	127

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 16...	.20	--	--	--	.08	.52	2.3	.01	6.7
FEB 14...	.15	10	.22	.03	.25	--	--	.31	11
APR 19...	.16	--	--	--	.06	.99	4.4	.02	7.6
JUL 12...	.18	--	--	--	.01	.71	3.1	.02	6.9

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECov. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
FEB 14...	1	4	10	0	10	0	0	0	0	10

DATE	CHRO- MIUM, RECov. FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECov. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECov. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)
FEB 14...	30	0	5	3	2	1	200	5300	5	2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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SABINE RIVER BASIN

08024200 BAYOU LA NANA NEAR ZWOLLE, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, REC OV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, REC OV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL REC OV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE REC OV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY REC OV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, TOTAL REC OV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE REC OV- ERABLE (UG/L AS NI)			
FEB 14...	3	0	1600	.0	.0	.0	.0	5	5			
DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL REC OV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE REC OV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, FM BOT- TOM MA- TERIAL (UG/G AS ZN)			
FEB 14...	0	0	0	0	.0	10	0	10	160			
DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	OIL AND GREASE (MG/L)	PCB, TOTAL (UG/L)	PCB, IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, IN BOT- TOM MA- TERIAL (UG/KG)
FEB 14...	.00	3	0	.0	0	.00	.00	.0	.0	1	.00	.0
DATE	DDE, TOTAL (UG/L)	DDE, IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, IN BOT- TOM MA- TERIAL (UG/KG)
FEB 14...	.00	.8	.00	.0	.01	.0	.00	.0	.00	.0	.00	.0
DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI- THION, TOTAL (UG/L)	METHYL TRI- THION, IN BOT- TOM MA- TERIAL (UG/L)
FEB 14...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00
DATE	METHYL TRI- THION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION, TOTAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	
FEB 14...	.0	.00	.00	.0	0	0	.00	.0	.06	.03	.00	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SABINE RIVER BASIN

08028200 BAYOU ANACOCO NEAR KNIGHT, LA

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
NOV 15...	1730	603	7.1	17.0	240	10	8.8	--	4.0	<5
FEB 14...	1400	47	5.8	8.5	65	55	10.3	32	1.9	K2800
APR 18...	1530	391	7.1	27.0	200	10	7.2	61	3.1	<5
JUL 11...	1445	642	7.0	32.5	50	7	7.2	--	--	--

DATE	STREPTOCOCCI, KF AGAR (COLS. PER 100 ML)	HARDNESS, DIS-SOLVED AS (MG/L AS CaCO3)	HARDNESS, NONCARBONATE, DIS-SOLVED AS (MG/L AS CaCO3)	CALCIUM DIS-SOLVED AS (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED AS (MG/L AS Mg)	SODIUM, DIS-SOLVED AS (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED AS (MG/L AS K)	BICARBONATE AS (MG/L AS HCO3)
NOV 15...	K110	39	0	13	1.5	110	84	7.7	4.5	97
FEB 14...	8000	12	5	3.6	.7	4.2	41	.5	1.2	8
APR 18...	280	--	--	--	--	65	--	--	--	55
JUL 11...	620	38	0	12	1.9	120	86	8.5	4.5	74

DATE	CARBONATE AS (MG/L AS CO3)	ALKALINITY, TOTAL AS (MG/L AS CaCO3)	SULFATE DIS-SOLVED AS (MG/L AS SO4)	CHLORIDE, DIS-SOLVED AS (MG/L AS CL)	FLUORIDE, DIS-SOLVED AS (MG/L AS F)	SILICA, DIS-SOLVED AS (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, SUSP. TOTAL, RESIDUE AT 110 DEG. C (MG/L)
NOV 15...	0	80	140	47	.1	18	389	385	.53	--
FEB 14...	0	7	7.7	4.8	.0	6.8	44	33	.06	118
APR 18...	0	45	74	33	.1	15	251	--	.34	--
JUL 11...	0	61	140	73	.2	21	398	409	.54	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 15...	--	--	--	.66	.64	--	--	.00	29
FEB 14...	.15	.02	.17	--	--	--	--	.34	11
APR 18...	.21	.04	.25	--	--	--	--	.13	18
JUL 11...	--	--	.32	--	3.7	4.0	18	.13	19

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

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

SABINE RIVER BASIN

08028200 BAYOU ANACOCO NEAR KNIGHT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL (UG/L)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL (UG/L)
FEB 14...	.00	4	.0	0	.00	.00	.0	.0	1	.00	.0	.00
APR 18...	.00	6	.0	0	.00	.00	.0	.0	0	.00	.0	.00

DATE	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- ELDRIN, TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
FEB 14...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
APR 18...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATERIAL (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METHYL THI- ON, TOTAL (UG/L)
FEB 14...	.01	.1	.00	.0	.00	.0	.00	.0	.00	.0	.00
APR 18...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL TRI- THION, TOTAL IN BOTTOM MATERIAL (UG/KG)	MIREX, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- THION, TOTAL (UG/L)	TRI- THION, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
FEB 14...	.0	.00	.00	.0	0	0	.00	.0	.01	.01	.00
APR 18...	.0	.00	.00	.0	0	0	.00	.0	.00	.00	.00

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
FEB 14...	1	1	0	0	0	0	0	0	0	0
APR 18...	2	--	--	0	0	0	0	1	0	1

DATE	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, FM BOT- TOM MA- TERIAL (UG/G)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, FM BOT- TOM MA- TERIAL (UG/G AS FE)
FEB 14...	0	0	20	0	60	40	2	1	90	850
APR 18...	0	0	6	0	6	2	4	0	260	86

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SABINE RIVER BASIN

08028200 BAYOU ANACOCO NEAR KNIGHT, LA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOVERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOVERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
FEB 14...	12	8	4	0	190	.6	.6	.0	.0	16
APR 18...	6	3	3	0	7	.0	.0	.0	.0	5

DATE	NICKEL, SUS- PENDED RECOVERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOVERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
FEB 14...	16	0	0	0	0	.0	20	10	10	30
APR 18...	1	4	0	--	--	3.0	10	10	0	0

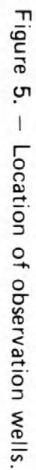
DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
RED RIVER BASIN					
07344450 PAW PAW BAYOU NEAR GREENWOOD					
DEC. 22, 1977.....	4.5	8.0	APR. 26.....	15.5	6.9
JAN. 17, 1978.....	4.5	10.8	MAY 9.....	22.0	3.6
FEB. 27.....	9.0	---	AUG 29.....	22.5	---
07348000 TWELVEMILE BAYOU NEAR DIXIE					
DEC. 1, 1977.....	9.5	9.7	JULY 13.....	32.5	---
JAN. 17, 1978.....	10.5	10.4	AUG. 10.....	34.0	---
MAR. 1.....	8.5	---	SEPT. 6.....	31.0	---
APR. 28.....	18.0	---			
07348700 BAYOU DORCHEAT NEAR SPRINGHILL					
DEC. 6, 1977.....	9.5	9.8	APR. 24.....	20.0	6.4
FEB. 16, 1978.....	6.5	8.6	MAY 24.....	24.0	4.4
FEB. 28.....	8.0	9.6	SEPT. 14.....	21.0	---
07349000 BAYOU DORCHEAT NEAR MINDEN					
NOV. 30, 1977.....	9.5	9.4	MAY 9.....	27.0	---
JAN. 5, 1978.....	8.0	---	JULY 18.....	28.0	---
APR. 10.....	22.0	---	SEPT. 6.....	28.0	---
07349500 BODCAU BAYOU NEAR SAREPTA					
NOV. 4, 1977.....	14.0	7.6	JUNE 7.....	24.0	---
DEC. 21.....	6.5	9.9	JUNE 12.....	26.0	---
FEB. 17, 1978.....	5.0	8.8	JUNE 21.....	25.0	---
MAR. 3.....	7.0	8.5	JULY 13.....	21.0	---
APR. 25.....	20.0	5.7	SEPT. 8.....	25.0	6.4
07349795 CYPRESS BAYOU ABOVE BENTON					
NOV. 4, 1977.....	15.0	---	MAR. 1.....	9.5	10.8
DEC. 22.....	5.0	9.6	APR. 25.....	18.0	3.7
JAN. 18, 1978.....	4.5	10.4	JUNE 7.....	21.0	---
07349890 RED CHUTE BAYOU NEAR ELM GROVE					
NOV. 29, 1977.....	12.0	9.4	APR. 13.....	19.0	7.0
DEC. 19.....	10.5	8.4	JULY 6.....	29.0	5.6
FEB. 14, 1978.....	3.0	11.0	JULY 25.....	29.0	6.2
MAR. 14.....	14.0	9.8	AUG. 29.....	28.0	---
07351000 BOGGY BAYOU NEAR KEITHVILLE					
OCT. 11, 1977.....	17.0	5.8	MAR. 2.....	11.0	8.2
DEC. 2.....	9.0	8.9	APR. 27.....	18.0	6.2
JAN. 17, 1978.....	6.0	9.8	JULY 20.....	28.0	---
07351600 BAYOU PIERRE NEAR GRAND BAYOU					
DEC. 5, 1977.....	16.5	7.8	APR. 27.....	22.0	4.4
DEC. 20.....	11.0	---	JUNE 9.....	26.0	4.3
FEB. 15, 1978.....	4.0	10.8	JULY 24.....	29.0	4.9
MAR. 15.....	14.5	8.2	SEPT. 17.....	21.0	---
07352000 SALINE BAYOU NEAR LUCKY					
OCT. 28, 1977.....	14.0	6.8	MAY 8.....	23.5	---
NOV. 23.....	13.0	7.6	JUNE 26.....	28.0	---
JAN. 4, 1978.....	3.0	12.1	JULY 14.....	20.0	---
JAN. 26.....	5.0	12.8	JULY 28.....	24.0	---
FEB. 24.....	4.0	12.6	SEPT. 29.....	21.0	---
MAR. 22.....	19.0	---			
07353520 NANTACHIE LAKE NEAR ALOHA					
NOV. 11, 1977.....	15.0	9.9	DEC. 23.....	12.5	---
07354000 LITTLE SANDY CREEK AT KISATCHIE					
NOV. 8, 1977.....	20.0	8.7	MAY 19.....	24.5	---
DEC. 20.....	11.0	11.0	JULY 5.....	32.5	---
FEB. 8, 1978.....	6.0	12.0	AUG. 3.....	33.0	---
MAR. 27.....	19.0	9.0	SEPT. 25.....	25.0	---

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
RED RIVER BASIN--Continued					
07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE					
DEC. 14, 1977.....	6.0	11.7	JUNE 23.....	28.0	---
APR. 6, 1978.....	19.0	8.4	AUG. 2.....	30.0	7.0
APR. 12.....	20.5	---	SEPT. 20.....	30.0	---
07364200 BAYOU BARTHOLOMEW NEAR JONES					
OCT. 6, 1977.....	21.0	7.0	APR. 25.....	19.0	6.9
DEC. 2.....	10.0	9.2	MAY 16.....	20.0	4.1
FEB. 6, 1978.....	1.0	12.2	JULY 5.....	30.0	4.1
MAR. 8.....	5.5	11.8	SEPT. 21.....	29.5	---
07364300 CHEMIN-A-HAUT BAYOU NEAR BEEKMAN					
NOV. 11, 1977.....	9.0	5.8	MAY 11.....	21.0	3.2
DEC. 1.....	8.4	11.5	MAY 12.....	21.0	---
FEB. 7, 1978.....	---	11.9	MAY 16.....	17.0	---
MAR. 8.....	7.0	10.0	JUNE 30.....	27.0	---
APR. 24.....	18.5	6.4	SEPT. 13.....	19.0	---
07366200 LITTLE CORNEY BAYOU NEAR LILLIE					
NOV. 7, 1977.....	15.0	5.6	MAY 10.....	26.0	---
DEC. 20.....	7.0	11.1	JUNE 23.....	26.0	---
FEB. 7, 1978.....	1.0	12.0	JULY 21.....	29.0	---
APR. 5.....	21.0	6.8	SEPT. 28.....	22.0	---
07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE					
OCT. 5, 1977.....	25.0	---	JUNE 29.....	27.0	---
APR. 25, 1978.....	20.0	9.0	JULY 6.....	28.5	7.6
07368000 BOEUF RIVER NEAR GIRARD					
DEC. 15, 1977.....	7.0	9.4	MAY 10.....	20.0	5.6
JAN. 26, 1978.....	4.0	11.6	JULY 20.....	31.5	---
FEB. 22.....	6.0	10.8	SEPT. 28.....	22.0	5.6
APR. 14.....	18.0	---			
07369000 BAYOU LAFOURCHE NEAR CREW LAKE					
NOV. 29, 1977.....	8.0	11.4	MAY 9.....	26.0	---
JAN. 24, 1978.....	2.5	12.8	JUNE 6.....	22.0	---
FEB. 22.....	3.0	12.2	JULY 20.....	31.0	---
APR. 13.....	20.5	---	SEPT. 13.....	26.5	7.2
07369700 BAYOU MACON NEAR KILBOURNE					
JULY 7, 1977.....	29.0	5.1	SEPT. 15.....	14.5	---
AUG. 15.....	25.0	4.5			
07370000 BAYOU MACON NEAR DELHI					
OCT. 14, 1977.....	20.0	---	JAN. 27, 1978..	3.0	11.8
NOV. 2.....	20.5	9.2	FEB. 23.....	7.0	11.8
NOV. 30.....	7.5	10.2	APR. 26.....	18.0	7.4
DEC. 1.....	8.0	10.1	MAY 10.....	21.0	5.5
DEC. 16.....	9.0	9.4	JUNE 27.....	30.0	5.8
DEC. 22.....	6.5	---	SEPT. 14.....	26.0	5.8
07371500 DUCDEMONA RIVER NEAR JONESBORO					
NOV. 23, 1977.....	15.5	6.3	MAY 24.....	25.0	---
DEC. 20.....	14.0	---	JUNE 12.....	22.5	---
JAN. 26, 1978.....	5.5	10.2	JUNE 13.....	22.5	---
MAR. 8.....	11.0	---	JUNE 15.....	24.5	---
MAR. 9.....	9.0	---	JUNE 18.....	25.0	---
APR. 7.....	22.0	3.9	JUNE 26.....	28.0	---
MAY 8.....	24.0	---	JULY 14.....	20.0	---
MAY 19.....	22.5	---	JULY 24.....	26.0	2.5
MAY 22.....	24.5	---			
07371540 FOUSE BAYOU AT STATE HIGHWAY 155, NEAR DANVILLE					
OCT. 4, 1977.....	18.0	---	MAR. 24.....	15.5	---
FEB. 3, 1978.....	6.0	---	APR. 11.....	17.0	---
FEB. 7.....	3.5	---	MAY 8.....	21.5	---

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
MISSISSIPPI RIVER DELTA					
07381800 SPRING CREEK NEAR GLENMORA					
NOV. 8, 1977.....	17.5	8.2	MAY 9.....	20.5	---
DEC. 19.....	24.0	---	JUNE 29.....	25.0	9.1
FEB. 1, 1978.....	6.0	11.0	AUG. 2.....	23.5	8.8
MAR. 20.....	17.0	---	SEPT. 25.....	20.0	6.8
07382000 BAYOU COCODRIE NEAR CLEARWATER					
NOV. 9, 1977.....	18.0	5.0	MAY 25.....	24.5	5.4
JAN. 4, 1978.....	6.0	4.8	JUNE 28.....	29.5	5.4
FEB. 1.....	5.0	8.8	AUG. 9.....	25.5	3.1
MAR. 21.....	11.5	---	SEPT. 27.....	22.0	4.0
07382500 BAYOU COURTABLEAU AT WASHINGTON					
NOV. 1, 1977.....	21.5	---	MAY 19.....	22.5	3.9
DEC. 14.....	11.5	---	JUNE 12.....	27.0	---
JAN. 17, 1978.....	8.5	---	JULY 21.....	27.5	---
JAN. 26.....	8.5	---	JULY 25.....	28.5	---
FEB. 20.....	7.0	11.0	JULY 26.....	28.0	---
APR. 6.....	21.0	6.3	AUG. 16.....	27.5	---
MAY 12.....	22.5	5.3	SEPT. 27.....	25.0	7.5
07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE					
DEC. 21, 1977.....	10.0	---	JUNE 28.....	31.5	4.2
JAN. 31, 1978.....	5.0	10.4	AUG. 8.....	28.0	---
MAY 11.....	20.5	---	SEPT. 27.....	23.0	6.6
07385500 BAYOU TECHE AT ARNAUDVILLE					
NOV. 1, 1977.....	23.0	---	JUNE 12.....	26.5	---
DEC. 12.....	11.5	---	JULY 18.....	29.5	5.1
JAN. 17, 1978.....	8.0	---	JULY 25.....	28.0	---
FEB. 20.....	7.0	10.2	AUG. 14.....	28.5	---
APR. 4.....	19.5	6.9	SEPT. 25.....	28.0	---
MAY 9.....	21.5	---			
MERMENTAU RIVER BASIN					
08010000 BAYOU DES CANNES NEAR EUNICE					
NOV. 3, 1977.....	17.0	---	JUNE 13.....	27.5	---
DEC. 14.....	12.5	---	JULY 20.....	28.5	5.6
JAN. 26, 1978.....	10.0	---	AUG. 15.....	26.0	---
FEB. 21.....	6.5	---	SEPT. 26.....	23.5	3.5
APR. 10.....	20.5	6.3	SEPT. 28.....	24.0	3.4
MAY 10.....	23.5	6.1			
08011500 BOGGY BAYOU NEAR PINE PRAIRIE					
DEC. 30, 1977.....	9.5	10.2	JUNE 26.....	25.0	2.9
JAN. 31, 1978.....	4.5	12.0	AUG. 1.....	28.0	3.0
MAR. 30.....	14.5	---	SEPT. 28.....	22.0	---
MAY 16.....	21.5	---			
08012000 BAYOU NEZPIQUE NEAR BASILE					
NOV. 7, 1977.....	22.0	---	MAY 10.....	20.0	4.8
DEC. 15.....	13.5	---	JUNE 13.....	27.5	---
FEB. 7, 1978.....	5.0	---	JULY 20.....	27.0	---
FEB. 21.....	6.0	---	AUG. 15.....	29.5	---
APR. 5.....	20.0	6.8	SEPT. 26.....	23.0	---
CALCASIEU RIVER BASIN					
08013000 CALCASIEU RIVER NEAR GLENMORA					
NOV. 9, 1977.....	17.5	7.1	JUNE 29.....	27.0	7.0
DEC. 27.....	8.0	---	AUG. 2.....	26.0	6.9
FEB. 1, 1978.....	4.0	---	SEPT. 26.....	22.0	7.8
MAY 12.....	21.0	8.6			
08014500 WHISKY CHITTO CREEK NEAR OBERLIN					
NOV. 14, 1977.....	16.0	---	MAY 17.....	25.0	---
DEC. 30.....	10.5	12.2	JUNE 27.....	26.5	9.0
FEB. 9 1978.....	8.0	---	AUG. 1.....	25.5	8.8
MAR. 28.....	16.0	---	SEPT. 28.....	19.0	9.1

TEMPERATURES (°C) AND DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OF STREAMS IN LOUISIANA DURING 1978 WATER YEAR

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
CALCASIEU RIVER BASIN--Continued					
08014800 BUNDICK CREEK NEAR DE RIDDER					
DEC. 29, 1977.....	8.5	9.7	JUNE 29.....	23.0	7.1
FEB. 8, 1978.....	6.0	---	JULY 31.....	25.5	7.0
MAR. 29.....	19.5	---	SEPT. 27.....	21.5	---
MAY 18.....	20.5	5.5			
08015500 CALCASIEU RIVER NEAR KINDER					
NOV. 14, 1977.....	15.0	---	MAY 31.....	25.5	---
DEC. 23.....	10.0	---	JUNE 15.....	23.0	---
JAN. 27, 1978.....	8.0	---	JULY 18.....	28.0	---
MAR. 8.....	12.0	11.2	AUG. 15.....	17.0	---
APR. 17.....	19.0	7.3	SEPT. 26.....	25.0	---
08016400 BECKWITH CREEK NEAR DE QUINCY					
NOV. 2, 1977.....	16.0	---	MAY 22.....	23.5	---
JAN. 3, 1978.....	8.5	---	JUNE 13.....	24.0	---
JAN. 26.....	8.5	---	JULY 17.....	26.0	---
MAR. 8.....	11.0	---	AUG. 14.....	14.5	---
APR. 13.....	16.5	---	SEPT. 25.....	23.0	---
SABINE RIVER BASIN					
08022765 BAYOU CASTOR NEAR FUNSTON					
NOV. 15, 1977.....	11.0	1.8	MAR. 29.....	12.0	9.2
DEC. 19.....	12.0	7.8	MAY 16.....	18.5	6.7
FEB. 7, 1978.....	2.0	12.8			
08025500 BAYOU TORO NEAR TORO					
NOV. 16, 1977.....	13.0	9.2	MAY 18.....	23.5	5.3
DEC. 28.....	6.0	---	JULY 5.....	30.0	---
FEB. 7, 1978.....	5.0	---	AUG. 3.....	29.5	5.4
MAR. 28.....	12.5	9.4	SEPT. 26.....	21.0	7.1
08028000 BAYOU ANACOCO NEAR ROSEPINE					
DEC. 28, 1977.....	8.0	11.6	JUNE 28.....	26.0	7.3
FEB. 2, 1978.....	4.0	13.5	JULY 31.....	28.0	7.2
MAR. 28.....	16.0	---	SEPT. 27.....	21.0	---
MAY 16.....	21.0	---			
08028700 HOOSIER CREEK NEAR MERRYVILLE					
JAN. 4, 1978.....	10.5	---	JUNE 28.....	22.0	7.6
FEB. 7.....	7.0	---	JULY 31.....	28.5	7.4
MAR. 29.....	14.0	---	SEPT. 27.....	22.0	---
MAY 16.....	19.5	---			



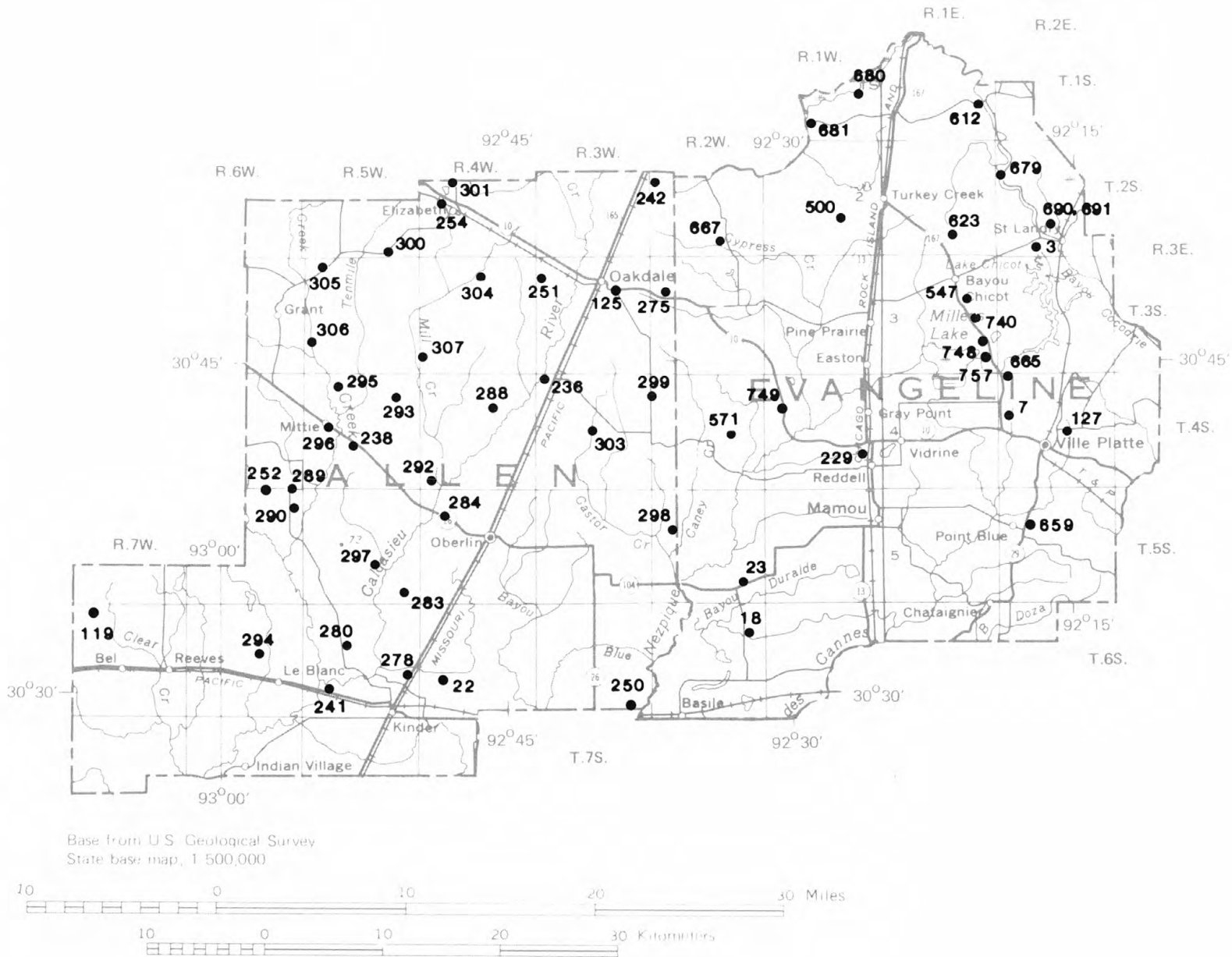


Figure 6. — Location of observation wells, Allen and Evangeline Parishes.

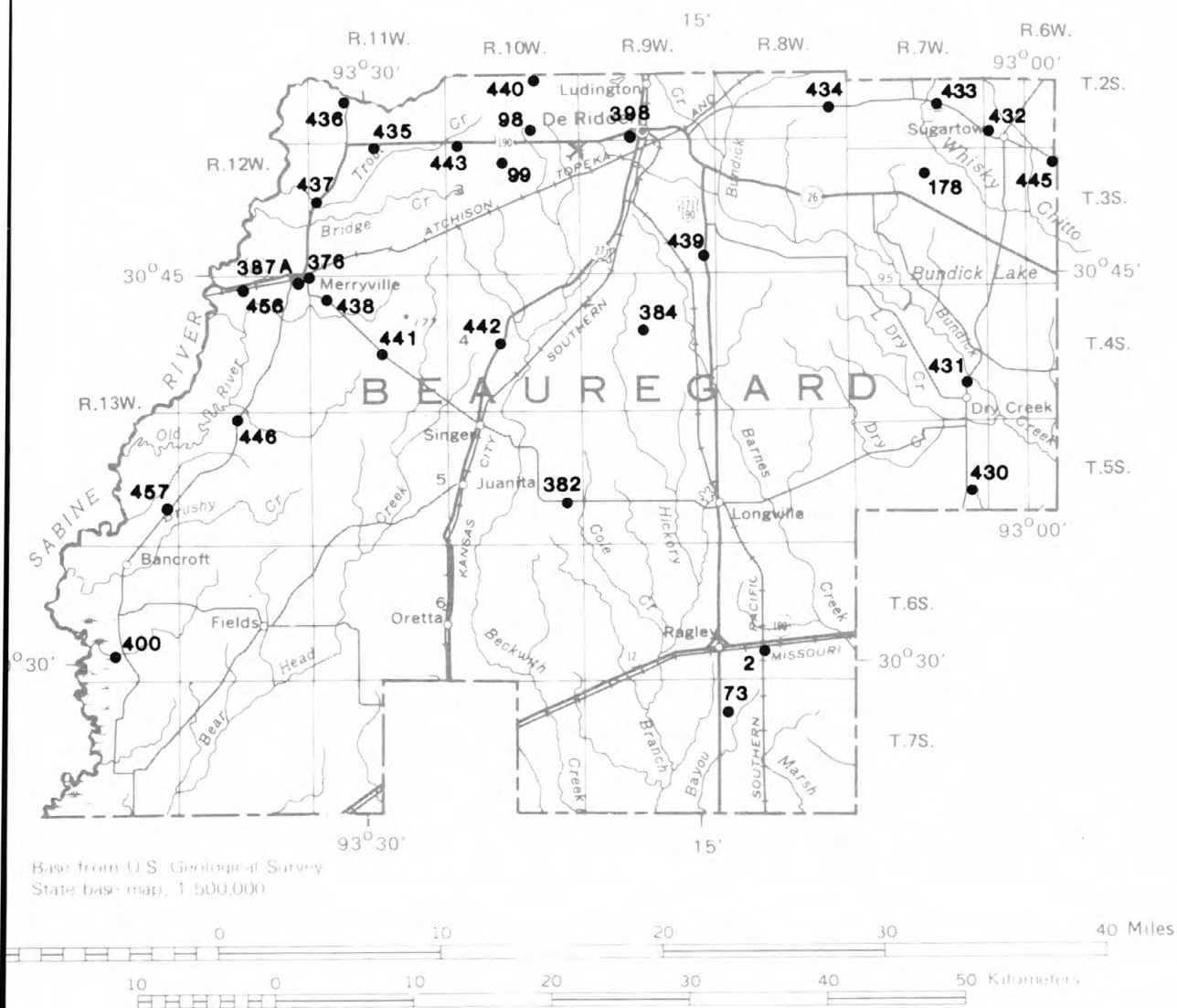


Figure 7. — Location of observation wells, Beauregard Parish.

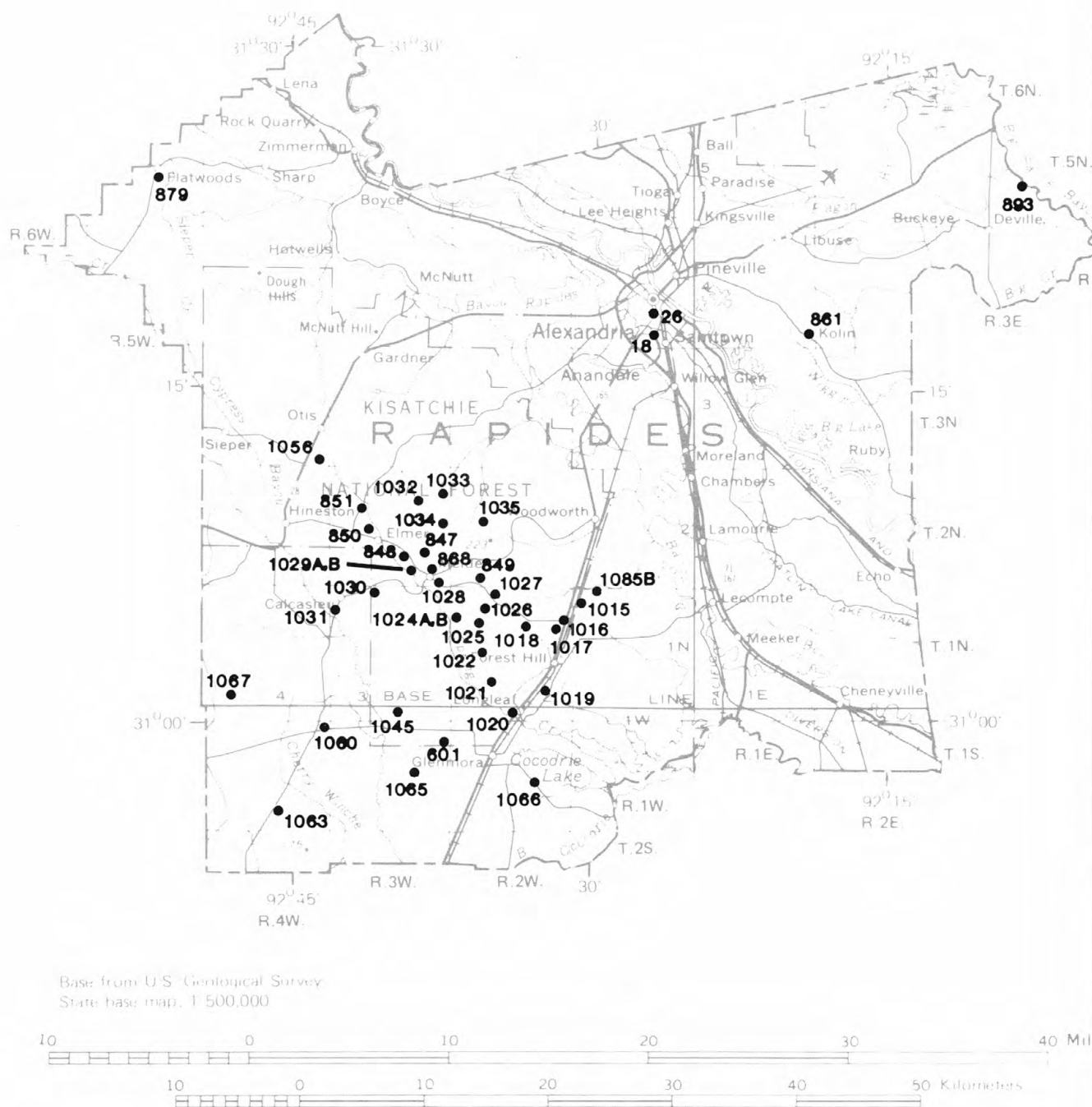


Figure 8. — Location of observation wells, Rapides Parish.

GROUND-WATER LEVELS

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ALLEN PARISH

303039092480701 LOCAL WELL NUMBER: AL-22

OWNER: F. B. ODOM. (SEC. 20, T. 6S., R. 4W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 24 TO 12 IN, REPORTED DEPTH 271 FT, SCREENED 206-271. MP LOWER LIP OF DISCHARGE PIPE, 3.60 FT ABOVE LSD.
 LSD 48.14 FT NGVD.
 HIGHEST WATER LEVEL 30.65 BELOW LSD, APR. 25, 1947,
 LOWEST WATER LEVEL 54.10 BELOW LSD, FEB. 27, 1974.
 RECORDS AVAILABLE 1940, 1944-72, 1974-75, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	51.82						

303356093062601 LOCAL WELL NUMBER: AL-119

OWNER: B. H. HINCHEE. (SEC. 5, T. 6S., R. 7W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 20 IN, DEPTH 263 FT, SCREENED 203-263. MP LOWER LIP OF DISCHARGE PIPE, 3.0 FT ABOVE LSD.
 LSD 100.00 FT NGVD.
 HIGHEST WATER LEVEL 57.45 BELOW LSD, MAR. 11, 1976,
 LOWEST WATER LEVEL 64.43 BELOW LSD, MAR. 6, 1975.
 RECORDS AVAILABLE 1974-76, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	57.95						

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 NGVD.
 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. 17, 1977	39.22	MAR. 2, 1978	38.09				

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 NGVD.
 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. 16, 1977	40.30	MAR. 2, 1978	39.11				

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 NGVD.
 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. 1, 1978	37.52						

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 NGVD.
 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. 16, 1977	32.67	MAR. 1, 1978	31.93				

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 NGVD.
 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
MAR. 2, 1978	27.56						

302934092402801 LOCAL WELL NUMBER: AL-250

OWNER: MRS. R. R. MCCLELLAND. (SEC. 35, T. 6S., R. 3W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 16 TO 10 IN, REPORTED DEPTH 287 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 5.12 FT ABOVE LSD.
 LSD 55.49 FT NGVD.
 HIGHEST WATER LEVEL 70.41 BELOW LSD, MAR. 24, 1964,
 LOWEST WATER LEVEL 82.04 BELOW LSD, FEB. 18, 1971.
 RECORDS AVAILABLE 1964-66, 1968-72, 1974, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1976	81.68						

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 NGVD.
 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. 2, 1978	17.43						

303937092572901 LOCAL WELL NUMBER: AL-252

OWNER: LOUIS FUSELIER AND E. P. VIDRINE. (SEC. 35, T. 4S., R. 6W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 10 IN, REPORTED DEPTH 202 FT, SCREENED INTERVAL UNKNOWN. MP LOWER LIP OF DISCHARGE PIPE, 5.30 FT ABOVE LSD.
 LSD 86.30 FT NGVD.
 HIGHEST WATER LEVEL 25.60 BELOW LSD, FEB. 27, 1974,
 LOWEST WATER LEVEL 33.72 BELOW LSD, FEB. 18, 1971.
 RECORDS AVAILABLE 1963-68, 1970-72, 1974-75, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	28.46						

GROUND-WATER LEVELS

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ALLEN PARISH

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 NGVD.
 HIGHEST WATER LEVEL 71.71 BELOW LSD, MAR. 2, 1978.
 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. 16, 1977	71.99	MAR. 2, 1978	71.71				

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 NGVD.
 HIGHEST WATER LEVEL 37.41 BELOW LSD, MAR. 5, 1976.
 LOWEST WATER LEVEL 40.62 BELOW LSD, MAR. 2, 1978.
 RECORDS AVAILABLE 1974, 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 2, 1978	40.62						

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 NGVD.
 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
MAR. 1, 1978	42.94						

303203092530701 LOCAL WELL NUMBER: AL-280

OWNER: FRED 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 NGVD.
 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
MAR. 1, 1978	30.13						

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, DEPTH 93 FT, SCREENED 87-93. MP TOP OF 2-IN WHITE PLASTIC CASING, 0.7 FT ABOVE LSD.
 LSD 62.00 FT NGVD.
 HIGHEST WATER LEVEL 34.80 BELOW LSD, FEB. 27, 1974.
 LOWEST WATER LEVEL 38.75 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1972, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	38.75	MAR. 2, 1978	37.28				

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 NGVD.
 HIGHEST WATER LEVEL 34.83 BELOW LSD, FEB. 27, 1974.
 LOWEST WATER LEVEL 38.01 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	38.01	MAR. 1, 1978	36.88				

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 NGVD.
 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. 16, 1977	23.58	MAR. 2, 1978	21.22				

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 NGVD.
 HIGHEST WATER LEVEL 12.53 BELOW LSD, FEB. 28, 1974.
 LOWEST WATER LEVEL 18.02 BELOW LSD, NOV. 17, 1976.
 RECORDS AVAILABLE 1973-76, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	16.10						

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 NGVD.
 HIGHEST WATER LEVEL 12.19 BELOW LSD, FEB. 28, 1974.
 LOWEST WATER LEVEL 17.54 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1973-74, 1976-77.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	17.54						

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 NGVD.
 HIGHEST WATER LEVEL 18.27 BELOW LSD, MAR. 11, 1976.
 LOWEST WATER LEVEL 21.60 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	21.60	MAR. 1, 1978	19.55				

GROUND-WATER LEVELS

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ALLEN PARISH

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 NGVD.
 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. 16, 1977	30.55	MAR. 2, 1978	28.35				

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 NGVD.
 HIGHEST WATER LEVEL 22.20 BELOW LSD, JUNE 19, 1975,
 LOWEST WATER LEVEL 25.36 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	25.36	MAR. 1, 1978	22.80				

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 NGVD.
 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. 16, 1977	23.89	MAR. 2, 1978	20.65				

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 NGVD.
 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. 16, 1977	13.70	MAR. 1, 1978	10.45				

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 NGVD.
 HIGHEST WATER LEVEL 9.62 BELOW LSD, JUNE 19, 1975,
 LOWEST WATER LEVEL 12.94 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	12.94	MAR. 1, 1978	10.67				

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 NGVD.
 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, 1977	62.00	MAR. 1, 1978	61.33				

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 NGVD.
 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. 16, 1977	38.58	MAR. 2, 1978	38.72				

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 NGVD.
 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. 16, 1977	64.72	MAR. 2, 1978	63.29				

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 NGVD.
 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. 16, 1977	58.48	MAR. 2, 1978	58.32				

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 NGVD.
 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. 16, 1977	58.43	MAR. 2, 1978	58.51				

GROUND-WATER LEVELS

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ALLEN PARISH

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 NGVD.
 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. 16, 1977	22.50	MAR. 2, 1978	21.10				

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 NGVD.
 HIGHEST WATER LEVEL 54.98 BELOW LSD, NOV. 20, 1975,
 LOWEST WATER LEVEL 60.72 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	60.72	MAR. 2, 1978	59.68				

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 NGVD.
 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. 16, 1977	8.76	MAR. 2, 1978	7.22				

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 NGVD.
 HIGHEST WATER LEVEL 19.60 BELOW LSD, JUNE 19, 1975,
 LOWEST WATER LEVEL 22.41 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	22.41	MAR. 2, 1978	20.59				

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 NGVD.
 HIGHEST WATER LEVEL 19.48 BELOW LSD, JUNE 18, 1962,
 LOWEST WATER LEVEL 30.92 BELOW LSD, DEC. 20, 1977.
 RECORDS AVAILABLE 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 20, 1977	30.92	MAR. 21, 1978	29.91	JUNE 12, 1978	30.03	SEP. 18, 1978	30.70

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 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 NGVD.
 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. 20, 1977	37.73	MAR. 22, 1978	36.39	JUNE 12, 1978	36.06	SEP. 19, 1978	38.95

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 60.00 FT NGVD.
 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. 20, 1977	36.24	MAR. 22, 1978	35.76				

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 NGVD.
 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. 20, 1977	79.26A	MAR. 22, 1978	75.68A	JUNE 12, 1978	82.90A	SEP. 19, 1978	78.22A

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 NGVD.
 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. 20, 1977	37.47	MAR. 22, 1978	37.24	JUNE 12, 1978	37.57	SEP. 19, 1978	37.98

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 NGVD.
 HIGHEST WATER LEVEL 55.05 BELOW LSD, JULY 18, 1973, JUNE 30, 1975.
 LOWEST WATER LEVEL 64.43 BELOW LSD, SEP. 19, 1978.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 20, 1977	64.20	MAR. 23, 1978	63.38	JUNE 12, 1978	63.94	SEP. 19, 1978	64.43

AVOYELLES PARISH

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 NGVD.
 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. 20, 1977	55.50C	MAR. 22, 1978	63.03C	JUNE 12, 1978	44.23	SEP. 19, 1978	67.51C

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 NGVD.
 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. 1, 1977	63.54	MAR. 2, 1978	62.91	MAY 22, 1978	64.97	AUG. 15, 1978	65.05
NOV. 17	63.51	MAR. 30	64.04	JULY 18	65.34	SEP. 26	64.79
JAN. 3, 1978	63.67	APR. 27	64.45				

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 NGVD.
 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. 3, 1978	74.92						

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 NGVD.
 HIGHEST WATER LEVEL 32.80 BELOW LSD, APR. 22, 1969,
 LOWEST WATER LEVEL 39.34 BELOW LSD, MAR. 29, 1971.
 RECORDS AVAILABLE 1968-77.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	36.16						

305003093235001 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 NGVD.
 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. 16, 1977	30.36	MAR. 7, 1978	30.76				

See footnotes at end of table.

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 NGVD.
 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. 17, 1977	67.68	MAR. 8, 1978	65.96				

304509093322201 LOCAL WELL NUMBER: BE-376

OWNER: MERRYVILLE WATER DEPT. (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 NGVD.
 HIGHEST WATER LEVEL 0.55 BELOW LSD, JUNE 26, 1975,
 LOWEST WATER LEVEL 4.00 BELOW LSD, JULY 24, 1978.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1977	3.84	DEC. 14, 1977	3.12	APR. 27, 1978	3.10	JULY 24, 1978	4.00
NOV. 16	2.99	MAR. 30, 1978	2.50	MAY 26	3.74		

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 NGVD.
 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	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	79.97	MAR. 2, 1978	79.05				

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 NGVD.
 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	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	56.21	MAR. 6, 1978	55.20				

304500093325102 LOCAL WELL NUMBER: BE-387A

OWNER: MERRYVILLE WATER DEPT. (SEC. 1, T. 4S., R. 12W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN JASPER AQUIFER OF MIOCENE AGE, DIAM 4 IN, DEPTH 892 FT, SCREENED 872-892. MP VENT HOLE IN CASING SEAL, 0.3 FT BELOW LSD.
 LSD 75.00 FT NGVD.
 HIGHEST WATER LEVEL 2.27 BELOW LSD, MAR. 30, 1978,
 LOWEST WATER LEVEL 3.95 BELOW LSD, OCT. 18, 1977.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1977	3.95	DEC. 14, 1977	3.30	MAR. 30, 1978	2.27	MAY 26, 1978	3.62
NOV. 16	3.79	MAR. 7, 1978	2.71	APR. 27	2.93	JULY 24	3.40

GROUND-WATER LEVELS

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BEAUREGARD PARISH

305025093174201 LOCAL WELL NUMBER: BE-398

OWNER: CITY OF DERIDDER. (SEC. 33, T. 2S., R. 9W.) DRILLED PUBLIC SUPPLY ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN, DEPTH 180 FT, SCREENED 130-180. MP EDGE OF COUPLING, 1.1 FT ABOVE LSD.
 LSD 180.00 FT NGVD.
 HIGHEST WATER LEVEL 33.47 BELOW LSD, APR. 27, 1978,
 LOWEST WATER LEVEL 38.48 BELOW LSD, OCT. 18, 1977.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1977	38.48	DEC. 14, 1977	37.86	MAR. 30, 1978	34.20	MAY 26, 1978	37.38
NOV. 17	36.19	MAR. 8, 1978	34.34	APR. 27	33.47		

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 NGVD.
 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	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	40.95	MAR. 7, 1978	37.16				

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 NGVD.
 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	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	60.59	MAR. 8, 1978	60.50				

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 NGVD.
 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. 17, 1977	6.27	MAR. 8, 1978	4.36				

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 NGVD.
 HIGHEST WATER LEVEL 32.60 BELOW LSD, MAY 7, 1974,
 LOWEST WATER LEVEL 37.38 BELOW LSD, NOV. 17, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	37.38	MAR. 8, 1978	34.56				

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 NGVD.
 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. 17, 1977	6.39	MAR. 8, 1978	5.41				

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 NGVD.
 HIGHEST WATER LEVEL 40.22 BELOW LSD, MAY 23, 1974,
 LOWEST WATER LEVEL 43.29 BELOW LSD, NOV. 17, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	43.29	MAR. 8, 1978	41.95				

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 NGVD.
 HIGHEST WATER LEVEL 12.27 BELOW LSD, JULY 16, 1975,
 LOWEST WATER LEVEL 14.08 BELOW LSD, MAR. 7, 1978.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	13.86	MAR. 7, 1978	14.08				

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 NGVD.
 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. 16, 1977	3.15	MAR. 7, 1978	0.04				

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 NGVD.
 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. 16, 1977	11.24	MAR. 7, 1978	9.81				

See footnotes at end of table.

GROUND-WATER LEVELS

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BEAUREGARD PARISH

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 NGVD.
 HIGHEST WATER LEVEL 8.98 BELOW LSD, JUNE 26, 1975,
 LOWEST WATER LEVEL 14.48 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	14.48	MAR. 7, 1978	11.15				

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 NGVD.
 HIGHEST WATER LEVEL 46.77 BELOW LSD, DEC. 1, 1975,
 LOWEST WATER LEVEL 49.40 BELOW LSD, MAY 26, 1978.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1977	49.33	DEC. 14, 1977	49.17	MAR. 30, 1978	48.99	MAY 26, 1978	49.40
NOV. 16	49.24	MAR. 6, 1978	48.38	APR. 27	48.93		

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 NGVD.
 HIGHEST WATER LEVEL 39.22 BELOW LSD, NOV. 9, 1976,
 LOWEST WATER LEVEL 44.90 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	44.90	MAR. 7, 1978	43.57				

304205093333101 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 NGVD.
 HIGHEST WATER LEVEL 61.16 BELOW LSD, MAR. 7, 1978,
 LOWEST WATER LEVEL 64.88 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	64.88	MAR. 7, 1978	61.16				

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 NGVD.
 HIGHEST WATER LEVEL 38.47 BELOW LSD, DEC. 1, 1975,
 LOWEST WATER LEVEL 40.50 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	40.50	MAR. 7, 1978	39.18				

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 NGVD.
 HIGHEST WATER LEVEL 34.16 BELOW LSD, JUNE 26, 1975.
 LOWEST WATER LEVEL 37.28 BELOW LSD, JULY 24, 1978.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	36.86	MAR. 7, 1978	35.44	APR. 27, 1978	36.42	JULY 24, 1978	37.28
DEC. 14	35.82	MAR. 30	35.91	MAY 26	36.87		

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 NGVD.
 HIGHEST WATER LEVEL 21.42 BELOW LSD, MAR. 2, 1976.
 LOWEST WATER LEVEL 25.30 BELOW LSD, NOV. 17, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	25.30	MAR. 8, 1978	23.72				

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 NGVD.
 HIGHEST WATER LEVEL 23.07 BELOW LSD, JUNE 26, 1975.
 LOWEST WATER LEVEL 25.90 BELOW LSD, NOV. 16, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977	25.90	MAR. 7, 1978	24.56				

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 NGVD.
 HIGHEST WATER LEVEL 6.32 BELOW LSD, MAR. 7, 1978.
 LOWEST WATER LEVEL 14.16 BELOW LSD, AUG. 18, 1977.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 7, 1978	6.32						

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 NGVD.
 HIGHEST WATER LEVEL 45.74 BELOW LSD, MAR. 4, 1977.
 LOWEST WATER LEVEL 49.67 BELOW LSD, AUG. 18, 1977.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 7, 1978	47.68						

GROUND-WATER LEVELS

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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 NGVD.
 HIGHEST WATER LEVEL 57.30 BELOW LSD, MAY 9, 1958,
 LOWEST WATER LEVEL 95.60 BELOW LSD, JULY 17, 1978.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 8, 1978	92.91	JULY 17	95.60				

323240093032001 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 NGVD.
 HIGHEST WATER LEVEL 45.68 BELOW LSD, MAR. 31, 1949,
 LOWEST WATER LEVEL 86.94 BELOW LSD, NOV. 3, 1977.
 RECORDS AVAILABLE 1940, 1948-71, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 3, 1977	86.94	MAR. 16, 1978	78.10	MAY 26, 1978	79.16	SEP. 5, 1978	81.82
DEC. 21	82.14	APR. 24	79.67				

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 NGVD.
 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. 3, 1977	222.17	FEB. 8, 1978	226.96	APR. 24, 1978	222.74	SEP. 5, 1978	224.80
DEC. 15	219.24	MAR. 16	227.75	JUNE 12	224.98		

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. MEASUREMENTS DISCONTINUED, DEC. 25, 1977.
 LSD 215.00 FT NGVD.
 HIGHEST WATER LEVEL 67.43 BELOW LSD, AUG. 5, 1966,
 LOWEST WATER LEVEL 112.89 BELOW LSD, MAR. 10, 1974.
 RECORDS AVAILABLE 1966, 1971-77.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1977	105.55H	DEC. 5, 1977	109.66	DEC. 15, 1977	111.00	DEC. 25, 1977	111.51
NOV. 30	108.59H	DEC. 10	111.10	DEC. 20	111.36		

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 NGVD.
 HIGHEST WATER LEVEL 198.27 BELOW LSD, SEP. 1, 1970,
 LOWEST WATER LEVEL 212.31 BELOW LSD, APR. 24, 1978.
 RECORDS AVAILABLE 1970-73, 1975, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 30, 1977	209.86	APR. 24, 1978	212.31	JULY 17, 1978	211.02	SEP. 5, 1978	211.78
MAR. 20, 1978	210.87	JUNE 12	210.80				

See footnotes at end of table.

LOUISIANA - CADDO PARISH

BIENVILLE PARISH

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 NGVD.
 HIGHEST WATER LEVEL 155.21 BELOW LSD, APR. 28, 1975.
 LOWEST WATER LEVEL 161.02 BELOW LSD, SEP. 5, 1978.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 3, 1977	158.98	FEB. 8, 1978	159.62	APR. 24, 1978	160.04	JULY 17, 1978	160.89
DEC. 15	158.98	MAR. 16	159.86	JUNE 12	160.23	SEP. 5	161.02

BOSSIER PARISH

322518093381701 LOCAL WELL NUMBER: BO-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 NGVD.
 HIGHEST WATER LEVEL 10.59 BELOW LSD, JUNE 10, 1958.
 LOWEST WATER LEVEL 25.43 BELOW LSD, SEP. 8, 1978.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 19, 1977	23.93	MAR. 2, 1978	22.45	JUNE 15, 1978	24.15	SEP. 8, 1978	25.43

323400093292201 LOCAL WELL NUMBER: BO-322

OWNER: U. S. GEOL. SURVEY. (SEC. 10, T. 18N., R. 11W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 66 FT, SCREENED 63-66. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 200.00 FT NGVD.
 HIGHEST WATER LEVEL 11.37 BELOW LSD, SEP. 7, 1977.
 LOWEST WATER LEVEL 15.33 BELOW LSD, DEC. 21, 1977.
 RECORDS AVAILABLE 1973, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 21, 1977	15.33	MAR. 16, 1978	14.77	JUNE 15, 1978	13.96		

323840093272001 LOCAL WELL NUMBER: BO-336

OWNER: U. S. GEOL. SURVEY. (SEC. 13, T. 19N., R. 11W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN, DEPTH 84 FT, SCREENED 81-84. MP TOP OF CASING, 3.40 FT ABOVE LSD.
 LSD 220.00 FT NGVD.
 HIGHEST WATER LEVEL 26.78 BELOW LSD, JULY 11, 1974.
 LOWEST WATER LEVEL 40.18 BELOW LSD, JUNE 15, 1978.
 RECORDS AVAILABLE 1974, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 21, 1977	35.43	MAR. 16, 1978	36.90	JUNE 15, 1978	40.18	SEP. 8, 1978	31.02

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 NGVD.
 HIGHEST WATER LEVEL 5.81 BELOW LSD, MAY 15, 1975.
 LOWEST WATER LEVEL 18.46 BELOW LSD, SEP. 7, 1978.
 RECORDS AVAILABLE 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 1, 1977	12.47	MAR. 1, 1978	12.70	MAY 26, 1978	14.40	JULY 19, 1978	17.27
DEC. 22	13.63	APR. 25	12.59	JUNE 13	14.11	SEP. 7	18.46

GROUND-WATER LEVELS

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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 NGVD.
 HIGHEST WATER LEVEL 48.45 BELOW LSD, JAN. 13, 1976.
 LOWEST WATER LEVEL 51.79 BELOW LSD, SEP. 11, 1978.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 23, 1977	50.65	MAR. 21, 1978	50.32	JUNE 13, 1978	50.21	SEP. 11, 1978	51.79

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 NGVD.
 HIGHEST WATER LEVEL 77.65 BELOW LSD, JUNE 13, 1978.
 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. 23, 1977	79.31	MAR. 21, 1978	78.37	JUNE 13, 1978	77.65	SEP. 11, 1978	76.71

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 NGVD.
 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
OCT. 6, 1977	21.906	JAN. 5, 1978	21.28	MAR. 28, 1978	16.43	JULY 11, 1978	20.906
NOV. 1	25.706	JAN. 10	22.306	APR. 5	13.706	AUG. 9	23.58
NOV. 4	25.41	FEB. 7	17.006	MAY 10	15.22	SEP. 20	25.906
NOV. 9	24.92	MAR. 3	19.206	JUNE 6	12.406	SEP. 25	25.25
DEC. 5	22.006	MAR. 20	18.18	JUNE 28	18.48		

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 NGVD.
 HIGHEST WATER LEVEL 212.45 BELOW LSD, DEC. 20, 1961.
 LOWEST WATER LEVEL 269.63 BELOW LSD, SEP. 12, 1978.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1977	261.70	MAR. 20, 1978	261.35	JUNE 12, 1978	260.83	SEP. 12, 1978	269.63

See footnotes at end of table.

LOUISIANA - CONCORDIA PARISH

CLATBORNE PARISH

324707093025001 LOCAL WELL NUMBER: CL-58

OWNER: TOWN 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 NGVD.
 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. 3, 1977	135.83	FEB. 8, 1978	137.00	APR. 24, 1978	135.86	JULY 17, 1978	137.32
DEC. 15	135.73	MAR. 20	135.58	JUNE 12	135.97	SEP. 12	137.36

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 NGVD.
 HIGHEST WATER LEVEL 297.80 BELOW LSD, JUNE 26, 1974,
 LOWEST WATER LEVEL 304.45 BELOW LSD, JUNE 15, 1978.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1977	303.41	MAR. 20, 1978	303.83	JUNE 15, 1978	304.45		

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 NGVD.
 HIGHEST WATER LEVEL 211.44 BELOW LSD, MAY 14, 1975,
 LOWEST WATER LEVEL 217.05 BELOW LSD, SEP. 12, 1978.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1977	216.56	MAR. 20, 1978	216.36	JUNE 12, 1978	216.38	SEP. 12, 1978	217.05

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 NGVD.
 HIGHEST WATER LEVEL 206.29 BELOW LSD, JULY 15, 1975,
 LOWEST WATER LEVEL 212.28 BELOW LSD, JULY 17, 1978.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 30, 1977	211.31	FEB. 16, 1978	211.27	APR. 26, 1978	211.54	JULY 17, 1978	212.28
DEC. 21	211.65	MAR. 16	211.43	MAY 26	211.57		

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 NGVD.
 HIGHEST WATER LEVEL 4.01 BELOW LSD, AUG. 15, 1970,
 LOWEST WATER LEVEL 41.71 BELOW LSD, JAN. 5, 1977.
 RECORDS AVAILABLE 1970, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1977	11.86	MAR. 20, 1978	14.46	JUNE 28, 1978	37.68A	SEP. 20, 1978	39.55A
JAN. 31, 1978	15.20	MAY 9	38.48A	AUG. 9	18.20A		

See footnotes at end of table.

GROUND-WATER LEVELS

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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 NGVD.
 HIGHEST WATER LEVEL 36.13 BELOW LSD, MAY 27, 1962,
 LOWEST WATER LEVEL 58.52 BELOW LSD, JUNE 14, 1978.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 19, 1977	57.28	MAR. 29, 1978	57.66	JUNE 14, 1978	58.52	SEP. 20, 1978	57.89

315345093355801 LOCAL WELL NUMBER: DS-443

OWNER: U. S. GEOL. SURVEY. (SEC. 37, T. 11N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 304 FT, SCREENED 294-304. MP TOP OF CASING, 3.20 FT ABOVE LSD.
 LSD 280.00 FT NGVD.
 HIGHEST WATER LEVEL 62.05 BELOW LSD, APR. 6, 1978,
 LOWEST WATER LEVEL 62.86 BELOW LSD, AUG. 4, 1978.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1977	62.27	JULY 12, 1978	62.52	AUG. 4, 1978	62.86	SEP. 20, 1978	62.55
APR. 6, 1978	62.05						

315545093372601 LOCAL WELL NUMBER: DS-444

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 11N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 241 FT, SCREENED 231-241. MP TOP OF CASING, 3.45 FT ABOVE LSD.
 LSD 305.00 FT NGVD.
 HIGHEST WATER LEVEL 58.78 BELOW LSD, MAY 15, 1978,
 LOWEST WATER LEVEL 59.76 BELOW LSD, AUG. 4, 1978, SEP. 20, 1978.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1977	59.72	MAY 15, 1978	58.78	AUG. 4, 1978	59.76	SEP. 20, 1978	59.76
APR. 6, 1978	58.88	JULY 12	59.57				

315521093343801 LOCAL WELL NUMBER: DS-445

OWNER: U. S. GEOL. SURVEY. (SEC. 22, T. 11N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 140 FT, SCREENED 130-140. MP TOP OF CASING, 3.60 FT ABOVE LSD.
 LSD 305.00 FT NGVD.
 HIGHEST WATER LEVEL 78.13 BELOW LSD, MAY 15, 1978,
 LOWEST WATER LEVEL 79.05 BELOW LSD, SEP. 20, 1978.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 15, 1977	78.17	MAY 15, 1978	78.13	AUG. 4, 1978	78.91	SEP. 20, 1978	79.05
APR. 6, 1978	78.50	JULY 12	78.79				

315629093352601 LOCAL WELL NUMBER: DS-446

OWNER: U. S. GEOL. SURVEY. (SEC. 15, T. 11N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 220 FT, SCREENED 210-220. MP TOP OF CASING, 3.85 FT ABOVE LSD.
 LSD 340.00 FT NGVD.
 HIGHEST WATER LEVEL 91.12 BELOW LSD, MAY 15, 1978,
 LOWEST WATER LEVEL 91.84 BELOW LSD, NOV. 18, 1977.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1977	91.84	MAY 15, 1978	91.12	AUG. 4, 1978	91.82	SEP. 20, 1978	91.81
APR. 6, 1978	91.32	JULY 12	91.59				

LOUISIANA - EAST CARROLL PARISH

DE SOTO PARISH

315459093302001 LOCAL WELL NUMBER: DS-448

OWNER: U. S. GEOL. SURVEY. (SEC. 28, T. 11N., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 230 FT, SCREENED 220-230. MP TOP OF CASING, 3.63 FT ABOVE LSD.
 LSD 270.00 FT NGVD.
 HIGHEST WATER LEVEL 124.81 BELOW LSD, MAY 15, 1978.
 LOWEST WATER LEVEL 126.14 BELOW LSD, SEP. 20, 1978.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 22, 1977	125.90	MAY 15, 1978	124.81	AUG. 4, 1978	125.66	SEP. 20, 1978	126.14
APR. 6, 1978	124.89	JULY 12	125.50				

315318093274201 LOCAL WELL NUMBER: DS-449

OWNER: U. S. GEOL. SURVEY. (SEC. 2, T. 10N., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 240 FT, SCREENED 230-240. MP TOP OF CASING, 3.25 FT ABOVE LSD.
 LSD 230.00 FT NGVD.
 HIGHEST WATER LEVEL 89.72 BELOW LSD, APR. 6, 1978.
 LOWEST WATER LEVEL 91.09 BELOW LSD, AUG. 4, 1978.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 22, 1977	90.76	MAY 15, 1978	89.77	AUG. 4, 1978	91.09	SEP. 20, 1978	90.95
APR. 6, 1978	89.72	JULY 12	90.82				

315509093320901 LOCAL WELL NUMBER: DS-450

OWNER: U. S. GEOL. SURVEY. (SEC. 19, T. 11N., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 262 FT, SCREENED 252-262. MP TOP OF CASING, 4.10 FT ABOVE LSD.
 LSD 290.00 FT NGVD.
 HIGHEST WATER LEVEL 127.70 BELOW LSD, MAY 15, 1978.
 LOWEST WATER LEVEL 128.81 BELOW LSD, AUG. 4, 1978.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	128.00	MAY 15, 1978	127.70	AUG. 4, 1978	128.81	SEP. 20, 1978	128.51
APR. 6	127.87	JULY 12	128.20				

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 NGVD.
 HIGHEST WATER LEVEL 0.26 BELOW LSD, MAY 16, 1973.
 LOWEST WATER LEVEL 29.63 BELOW LSD, JUNE 22, 1964.
 RECORDS AVAILABLE 1955, 1961-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 19, 1977	21.64	MAR. 7, 1978	18.87	JUNE 22, 1978	14.33	SEP. 22, 1978	17.90

325100091132401 LOCAL WELL NUMBER: EC-49

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 NGVD.
 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. 19, 1977	20.39	MAR. 7, 1978	19.15	JUNE 22, 1978	20.55	SEP. 22, 1978	19.15

GROUND-WATER LEVELS

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EAST CARROLL PARISH

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 NGVD.
 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. 19, 1977	17.45	MAR. 7, 1978	17.16	JUNE 22, 1978	20.34	SEP. 22, 1978	21.59

EVANGELINE PARISH

305015092171001 LOCAL WELL NUMBER: EV-3

OWNER: LA. OFF. STATE PARKS. (IRREG. SEC. 33, T. 2S., R. 2E.) DRILLED UNUSED ARTESIAN WELL IN . 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 NGVD.
 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
FEB. 28, 1978	38.70						

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 NGVD.
 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. 1, 1978	98.81						

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 NGVD.
 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
FEB. 28, 1978	77.40						

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 NGVD.
 HIGHEST WATER LEVEL 37.94 BELOW LSD, MAR. 13, 1947.
 LOWEST WATER LEVEL 83.98 BELOW LSD, MAR. 8, 1977.
 RECORDS AVAILABLE 1940-72, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 28, 1978	76.31						

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 NGVD.
 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, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	94.76						

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 NGVD.
 HIGHEST WATER LEVEL 45.52 BELOW LSD, APR. 18, 1951.
 LOWEST WATER LEVEL 106.36 BELOW LSD, JUNE 30, 1978.
 RECORDS AVAILABLE 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1977	84.66H	DEC. 15, 1977	81.27	FEB. 28, 1978	78.57	MAY 15, 1978	97.76
OCT. 5	84.70	DEC. 20	81.11	MAR. 5	78.77	MAY 20	99.43
OCT. 10	84.20	DEC. 25	80.93	MAR. 10	80.12	MAY 24	101.29H
OCT. 15	84.10	DEC. 31	80.72	MAR. 15	80.03	MAY 25	102.21
OCT. 20	83.81	JAN. 5, 1978	80.64	MAR. 20	85.68	JUNE 22	98.26H
OCT. 25	83.48	JAN. 10	80.59	MAR. 25	88.50	JUNE 25	102.49
OCT. 31	83.16	JAN. 15	80.30	MAR. 27	88.73H	JUNE 30	106.36
NOV. 2	82.85H	JAN. 16	80.01H	MAR. 31	89.47	JULY 5	105.67
NOV. 5	82.81	JAN. 20	80.01	APR. 5	91.11	JULY 10	103.88
NOV. 10	82.87	JAN. 25	79.40	APR. 10	89.98	JULY 15	104.09
NOV. 15	82.56	JAN. 31	79.75	APR. 15	88.60	JULY 19	102.72H
NOV. 20	82.28	FEB. 5	79.64	APR. 20	91.09	AUG. 16	91.89H
NOV. 25	82.05	FEB. 10	79.35	APR. 25	97.08H	AUG. 20	91.23
NOV. 30	81.39	FEB. 15	79.04	APR. 30	98.94	SEP. 20	87.81
DEC. 2	81.50H	FEB. 16	79.01H	MAY 5	96.35	SEP. 25	87.50
DEC. 5	81.34	FEB. 20	78.91	MAY 10	95.63	SEP. 30	87.06
DEC. 10	81.84	FEB. 25	78.78				

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 NGVD.
 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
FEB. 28, 1978	49.25						

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 NGVD.
 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. 2, 1977	48.30	FEB. 16, 1978	47.58	APR. 25, 1978	47.54	JULY 19, 1978	48.37
DEC. 2	48.55	MAR. 1	47.64	MAY 24	47.69	AUG. 16	48.61
JAN. 16, 1978	48.03	MAR. 27	47.42	JUNE 22	48.04	SEP. 20	48.88

See footnotes at end of table.

GROUND-WATER LEVELS

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EVANGELINE PARISH

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 NGVD.
 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
FEB. 28, 1978	50.02						

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 NGVD.
 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
FEB. 28, 1978	22.87						

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 NGVD.
 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
FEB. 28, 1978	68.78						

303714092172601 LOCAL WELL NUMBER: EV-659

OWNER: J. A. FUSELIER. (IRREG. SEC. 59, T. 5S., R. 2E.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 8 IN, REPORTED DEPTH 250 FT, SCREENED 200-250. MP LOWER LIP OF DISCHARGE PIPE, 5.70 FT ABOVE LSD.
 LSD 60.52 FT NGVD.
 HIGHEST WATER LEVEL 80.10 BELOW LSD, MAR. 28, 1962.
 LOWEST WATER LEVEL 105.04 BELOW LSD, FEB. 26, 1970.
 RECORDS AVAILABLE 1961-72, 1974-76, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	92.70						

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 NGVD.
 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. 1, 1978	59.96						

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 NGVD.
 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
FEB. 28, 1978	48.24						

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 NGVD.
 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
FEB. 28, 1978	0.25						

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 NGVD.
 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
FEB. 28, 1978	55.95						

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 NGVD.
 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, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 28, 1978	6.58						

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 NGVD.
 HIGHEST WATER LEVEL 3.67 ABOVE LSD, APR. 1, 1967.
 LOWEST WATER LEVEL 4.54 BELOW LSD, FEB. 28, 1978.
 RECORDS AVAILABLE 1967-69, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 28, 1978	4.54						

See footnotes at end of table.

GROUND-WATER LEVELS

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EVANGELINE PARISH

305049092164102 LOCAL WELL NUMBER: EV-691

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 25., 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 NGVD.
 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
FEB. 28, 1978	12.26						

304640092195601 LOCAL WELL NUMBER: EV-740

OWNER: U. S. GEOL. SURVEY. (IRREG. 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 NGVD.
 HIGHEST WATER LEVEL 52.52 BELOW LSD, MAR. 18, 1976,
 LOWEST WATER LEVEL 55.46 BELOW LSD, JULY 6, 1978.
 RECORDS AVAILABLE 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1977	54.86	FEB. 16, 1978	54.03	MAR. 22, 1978	53.94	JULY 6, 1978	55.46
DEC. 28	53.70	MAR. 1	54.09				

304617092193201 LOCAL WELL NUMBER: EV-748

OWNER: U. S. GEOL. SURVEY. (IRREG. SEC. 36, 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 NGVD.
 HIGHEST WATER LEVEL 26.29 BELOW LSD, MAR. 14, 1977,
 LOWEST WATER LEVEL 31.07 BELOW LSD, JULY 6, 1978.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1977	27.48	FEB. 16, 1978	27.30	MAR. 22, 1978	28.52	JULY 6, 1978	31.07
DEC. 28	27.92	MAR. 1	27.33				

304316092300701 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 NGVD.
 HIGHEST WATER LEVEL 41.77 BELOW LSD, MAR. 14, 1977,
 LOWEST WATER LEVEL 46.27 BELOW LSD, JULY 6, 1978.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 28, 1977	44.06	MAR. 22, 1978	43.46	JULY 6, 1978	46.27		

304543092191301 LOCAL WELL NUMBER: EV-757

OWNER: U. S. GEOL. SURVEY. (SEC. 37, T. 3S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN, DEPTH 120 FT, SCREENED 114-120. MP TOP OF CASING, 1.53 FT ABOVE LSD.
 LSD 77.00 FT NGVD.
 HIGHEST WATER LEVEL 70.20 BELOW LSD, FEB. 16, 1978,
 LOWEST WATER LEVEL 73.07 BELOW LSD, JULY 6, 1978.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 16, 1978	70.20	MAR. 22	70.46	JULY 6, 1978	73.07		

312703092224801 LOCAL WELL NUMBER: G-1278

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 NGVD.

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. 27, 1977	68.33	JAN. 30, 1978	68.74	APR. 25, 1978	68.47	JULY 24, 1978	68.75
NOV. 28	68.62	FEB. 24	68.54	MAY 24	68.52	AUG. 28	68.89
DEC. 22	68.62	MAR. 23	68.51	JUNE 23	68.60	SEP. 26	68.97

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 NGVD.

HIGHEST WATER LEVEL 35.55 BELOW LSD, APR. 30, 1974.

LOWEST WATER LEVEL 45.15 BELOW LSD, DEC. 23, 1977.

RECORDS AVAILABLE 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 23, 1977	45.15	MAR. 20, 1978	40.02	JUNE 12, 1978	40.31	SEP. 19, 1978	41.00
JAN. 11, 1978	41.36						

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 HOLOCENE AGE, DIAM 1.5 IN, DEPTH 19 FT, SCREENED 16-19, MP TOP OF CASING, 16.1 FT ABOVE LSD.

LSD 83.87 FT NGVD.

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. 22, 1977	3.86	MAR. 20, 1978	4.19	JUNE 12, 1978	4.52	SEP. 19, 1978	4.98

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 HOLOCENE AGE, DIAM 3 IN, DEPTH 11 FT, SCREENED 8-11, MP TOP OF BUSHING, 24.0 FT ABOVE LSD.

LSD 77.34 FT NGVD.

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. 22, 1977	2.10	MAR. 20, 1978	1.95	JUNE 12, 1978	1.80	SEP. 19, 1978	1.62

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 HOLOCENE AGE, DIAM 1.25 IN, DEPTH 5 FT, SCREENED 2-5, MP TOP OF CASING, 15.33 FT ABOVE LSD.

LSD 97.93 FT NGVD.

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. 23, 1977	2.16	MAR. 20, 1978	2.18	JUNE 12, 1978	1.93	SEP. 19, 1978	1.83

See footnotes at end of table.

GROUND-WATER LEVELS

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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 HOLOCENE AGE, DIAM 4 IN, DEPTH 10 FT, SCREENED 7-10. MP TOP OF COLLAR, 5.50 FT ABOVE LSD.
 LSD 85.04 FT NGVD.
 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. 22, 1977	1.80	MAR. 20, 1978	2.19	JUNE 12, 1978	2.40	SEP. 19, 1978	2.08

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 HOLOCENE AGE, DIAM 4 IN, DEPTH 16 FT, SCREENED 11-16. MP TOP OF COLLAR, 3.60 FT ABOVE LSD.
 LSD 108.54 FT NGVD.
 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. 23, 1977	5.94	MAR. 20, 1978	6.48	JUNE 12, 1978	7.24	SEP. 19, 1978	8.30

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 HOLOCENE AGE, DIAM 4 IN, DEPTH 19 FT, SCREENED 16-19. MP TOP OF COLLAR, 3.20 FT ABOVE LSD.
 LSD 109.96 FT NGVD.
 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. 23, 1977	4.91	MAR. 20, 1978	4.06	JUNE 12, 1978	6.22	SEP. 19, 1978	8.49

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 NGVD.
 HIGHEST WATER LEVEL 10.65 BELOW LSD, JAN. 30, 1974,
 LOWEST WATER LEVEL 19.27 BELOW LSD, SEP. 19, 1978.
 RECORDS AVAILABLE 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 23, 1977	17.73	MAR. 20, 1978	16.61	JUNE 12, 1978	18.11	SEP. 19, 1978	19.27

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 NGVD.
 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. 27, 1977	55.32	MAR. 20, 1978	54.77	JUNE 12, 1978	54.88	SEP. 19, 1978	55.88

LOUISIANA - JACKSON PARISH

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 ACQUIFER OF HOLOCENE AGE, DIAM 4 IN, DEPTH 15 FT, SCREENED 10-15. MP TOP OF CASING, 5.70 FT ABOVE LSD.
 LSD 85.00 FT NGVD.
 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
DEC. 22, 1977	4.97	MAR. 20, 1978	6.19	JUNE 12, 1978	7.17	SEP. 19, 1978	8.81

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 SHELF, 2.33 FT ABOVE LSD.
 LSD 160.00 FT NGVD.
 HIGHEST WATER LEVEL 114.16 BELOW LSD, JAN. 2, 1961.
 LOWEST WATER LEVEL 193.86 BELOW LSD, OCT. 1, 1967.
 RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1977	149.79H	MAR. 10, 1978	150.50	MAY 10, 1978	150.40	JULY 15, 1978	150.10
OCT. 5	149.70	MAR. 11	146.60	MAY 15	145.30	JULY 20	152.35
OCT. 10	149.70	MAR. 15	153.50	MAY 20	148.00	JULY 25	153.60
OCT. 15	142.50	MAR. 16	154.87H	MAY 25	144.30	JULY 31	153.55
OCT. 20	140.40	MAR. 20	156.10	MAY 31	150.85	AUG. 5	153.45
OCT. 25	139.40	MAR. 25	156.80	JUNE 5	148.10	AUG. 10	153.40
OCT. 29	138.70J	MAR. 31	156.80	JUNE 6	147.65H	AUG. 14	153.90
NOV. 3	145.95H	APR. 3	157.08	JUNE 10	147.00	AUG. 15	152.80
NOV. 5	146.50	APR. 4	152.75	JUNE 15	148.90	AUG. 20	145.70
DEC. 14	138.45H	APR. 5	154.10	JUNE 20	150.70	AUG. 25	151.80
FEB. 8, 1978	152.68H	APR. 10	154.50	JUNE 25	149.30	AUG. 31	148.40
FEB. 10	150.40	APR. 15	155.98	JUNE 28	151.50	SEP. 5	150.46H
FEB. 15	149.00	APR. 20	155.20	JUNE 30	149.40	SEP. 10	149.30
FEB. 20	154.40	APR. 25	154.98	JULY 5	144.50	SEP. 15	148.27
FEB. 25	155.75	APR. 30	154.48	JULY 7	144.55H	SEP. 20	151.30
FEB. 28	152.10	MAY 2	154.59H	JULY 9	142.70J	SEP. 25	148.50
MAR. 5	152.80	MAY 5	154.50	JULY 10	148.20	SEP. 30	148.50

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 NGVD.
 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
NOV. 28, 1977	160.79	FEB. 27, 1978	160.24	MAY 30, 1978	160.26	JULY 28, 1978	160.74
JAN. 3, 1978	160.70	MAR. 28	161.00	JUNE 26	160.54	SEP. 25	160.99
JAN. 30	160.42	APR. 26	160.34				

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 NGVD.
 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
JUNE 15, 1978	159.60	SEP. 26	159.85				

See footnotes at end of table.

GROUND-WATER LEVELS

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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 NGVD.

HIGHEST WATER LEVEL 155.00 BELOW LSD, JULY 13, 1966,

LOWEST WATER LEVEL 163.00 BELOW LSD, SEP. 26, 1978.

RECORDS AVAILABLE 1966, 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 15, 1978	161.61	SEP. 26	163.00				

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 NGVD.

HIGHEST WATER LEVEL 151.16 BELOW LSD, JAN. 19, 1971,

LOWEST WATER LEVEL 163.98 BELOW LSD, DEC. 12, 1977.

RECORDS AVAILABLE 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 12, 1977	163.98	MAR. 2, 1978	160.20				

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 NGVD.

HIGHEST WATER LEVEL 209.06 BELOW LSD, MAY 14, 1975,

LOWEST WATER LEVEL 215.20 BELOW LSD, SEP. 19, 1978.

RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 12, 1977	213.86	JUNE 5, 1978	213.78	AUG. 28, 1978	215.00	SEP. 19, 1978	215.20
MAR. 2, 1978	212.60						

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 NGVD.

HIGHEST WATER LEVEL 206.58 BELOW LSD, APR. 7, 1976,

LOWEST WATER LEVEL 210.84 BELOW LSD, SEP. 19, 1978.

RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 8, 1977	208.99	MAR. 1, 1978	208.85	JUNE 26, 1978	210.11	SEP. 19, 1978	210.84
JAN. 17, 1978	209.00	APR. 13	208.61	JULY 28	210.33		

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 NGVD.

HIGHEST WATER LEVEL 154.78 BELOW LSD, MAY 13, 1975,

LOWEST WATER LEVEL 160.20 BELOW LSD, SEP. 19, 1978.

RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1977	158.64	MAR. 2, 1978	157.47	JUNE 2, 1978	158.41	SEP. 19, 1978	160.20
JAN. 17, 1978	157.28	APR. 14	158.20				

LOUISIANA - LA SALLE PARISH

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 NGVD.

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. 23, 1977	56.98	MAR. 21, 1978	57.19	JUNE 12, 1978	56.89	SEP. 19, 1978	57.94

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 NGVD.

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. 23, 1977	55.22	MAR. 21, 1978	53.63	JUNE 13, 1978	52.47	SEP. 19, 1978	55.55

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 NGVD.

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. 22, 1977	40.85	MAR. 21, 1978	39.63	JUNE 13, 1978	39.60	SEP. 19, 1978	41.00

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 NGVD.

HIGHEST WATER LEVEL 45.68 BELOW LSD, JULY 16, 1975.

LOWEST WATER LEVEL 55.60 BELOW LSD, SEP. 19, 1978.

RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 23, 1977	55.28	MAR. 21, 1978	53.42	JUNE 13, 1978	52.53	SEP. 19, 1978	55.60

GROUND-WATER LEVELS

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LINCOLN PARISH

323132092385901 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 NGVD.
 HIGHEST WATER LEVEL 250.25 BELOW LSD, AUG. 8, 1961,
 LOWEST WATER LEVEL 327.00 BELOW LSD, AUG. 5, 1978.
 RECORDS AVAILABLE 1961, 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1977	314.32	DEC. 15, 1977	306.95	FEB. 25, 1978	306.05	MAY 5, 1978	310.28
OCT. 6	319.36J	DEC. 20	306.75	MAR. 2	305.57H	MAY 8	306.20J
OCT. 10	314.01	DEC. 25	305.30	MAR. 5	305.10	MAY 10	310.60
OCT. 15	311.89	DEC. 31	305.30	MAR. 10	303.65	MAY 15	309.60
OCT. 20	313.05	JAN. 5, 1978	310.60	MAR. 13	303.25J	MAY 20	309.10
OCT. 25	313.90	JAN. 10	305.75	MAR. 15	306.45	MAY 25	316.35
OCT. 31	314.98	JAN. 15	306.00	MAR. 20	305.10	MAY 31	316.45
NOV. 5	311.48	JAN. 17	306.00H	MAR. 25	305.75	JUNE 2	317.65H
NOV. 9	313.50H	JAN. 20	306.05	MAR. 31	308.40	JULY 20	325.93H
NOV. 10	313.40	JAN. 25	305.60	APR. 5	310.30	JULY 30	319.65J
NOV. 15	312.25	JAN. 31	305.00	APR. 7	312.10J	JULY 31	323.25
NOV. 20	309.65	FEB. 5	304.60	APR. 10	311.30	AUG. 5	327.00
NOV. 25	307.65	FEB. 7	304.00J	APR. 14	309.98H	AUG. 10	324.60
NOV. 30	307.15	FEB. 10	304.20	APR. 15	308.20	AUG. 15	321.55
DEC. 5	313.75	FEB. 15	305.65	APR. 20	310.25	AUG. 20	325.25
DEC. 9	316.60J	FEB. 20	305.10	APR. 25	311.40	SEP. 21	321.30H
DEC. 10	313.50	FEB. 23	309.00J	APR. 30	308.00		

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 NGVD.
 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
MAR. 9, 1978	149.17	SEP. 22	148.21				

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 OF EOCENE AGE, 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 NGVD.
 HIGHEST WATER LEVEL 185.04 BELOW LSD, MAR. 2, 1970,
 LOWEST WATER LEVEL 210.61 BELOW LSD, SEP. 19, 1978.
 RECORDS AVAILABLE 1968-71, 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1978	206.76	SEP. 19	210.61				

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 NGVD.
 HIGHEST WATER LEVEL 266.50 BELOW LSD, AUG. 11, 1969,
 LOWEST WATER LEVEL 290.82 BELOW LSD, SEP. 5, 1978.
 RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1978	288.32	SEP. 5	290.82				

See footnotes at end of table.

LOUISIANA - MOREHOUSE PARISH

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 NGVD.

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. 21, 1978	127.10						

MADISON PARISH

322245091073001 LOCAL WELL NUMBER: MA-10

OWNER: ILLINOIS CENTRAL GULF 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 NGVD.

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. 19, 1977	7.99	MAR. 7, 1978	7.86	JUNE 22, 1978	7.40	SEP. 18, 1978	11.24

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 NGVD.

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. 5, 1977	199.00	FEB. 15, 1978	198.71	APR. 25, 1978	198.47	JULY 15, 1978	197.39
OCT. 7	201.01J	FEB. 20	197.98	APR. 30	197.01	JULY 20	197.48
OCT. 10	197.52	FEB. 22	201.42J	MAY 5	196.37	JULY 25	198.28
OCT. 15	194.85	FEB. 25	197.96	MAY 10	199.59	JULY 31	201.76
OCT. 18	192.36J	FEB. 28	196.97	MAY 15	196.11	AUG. 5	202.08J
OCT. 20	195.54	MAR. 5	195.39	MAY 20	193.19	AUG. 9	202.66J
OCT. 25	197.87	MAR. 8	197.42H	MAY 25	194.01	AUG. 10	201.33
OCT. 31	197.84	MAR. 10	195.31	MAY 31	197.05	AUG. 15	193.51
NOV. 5	196.45	MAR. 15	196.28	JUNE 5	193.48	AUG. 20	198.15
NOV. 10	198.57	MAR. 20	198.71	JUNE 10	197.87	AUG. 25	197.94
NOV. 15	200.50	MAR. 25	199.27	JUNE 15	197.98	AUG. 31	200.61
NOV. 20	197.08	MAR. 31	198.96	JUNE 20	197.39	SEP. 5	199.05
DEC. 1	198.46H	APR. 5	198.46	JUNE 25	200.90	SEP. 10	198.40
DEC. 4	189.78J	APR. 10	200.26	JUNE 28	201.69J	SEP. 15	195.30
DEC. 5	193.94	APR. 13	201.39J	JUNE 29	201.69J	SEP. 20	200.71
DEC. 10	194.64	APR. 15	200.57	JUNE 30	200.98	SEP. 21	201.10H
DEC. 15	194.52	APR. 17	193.18J	JULY 5	180.30	SEP. 25	200.83
DEC. 20	194.29	APR. 20	196.29	JULY 6	177.13J	SEP. 28	196.66J
FEB. 7, 1978	200.30H	APR. 24	197.50H	JULY 10	192.95	SEP. 30	201.49
FEB. 10	200.38						

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 NGVD.

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
DEC. 1, 1977	90.70	MAR. 8, 1978	91.43	JULY 5, 1978	91.05	SEP. 21, 1978	90.72
FEB. 7, 1978	91.40	APR. 24	91.68				

See footnotes at end of table.

GROUND-WATER LEVELS

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MOREHOUSE PARISH

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 NGVD.
 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. 21, 1978	74.28						

325925091392201 LOCAL WELL NUMBER: MO-303

OWNER: U. S. GEOL. SURVEY. (SEC. 9, T. 23N., R. 8E.) DRILLED OBSERVATION WATER-TABLE WELL IN THE ALLUUVIAL 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 NGVD.
 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
DEC. 2, 1977	19.00	MAR. 8, 1978	16.50	APR. 25, 1978	17.84	SEP. 15, 1978	19.08
FEB. 6, 1978	17.75						

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 NGVD.
 HIGHEST WATER LEVEL 91.63 BELOW LSD, JULY 31, 1968,
 LOWEST WATER LEVEL 101.30 BELOW LSD, SEP. 27, 1978.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 27, 1978	101.30						

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 NGVD.
 HIGHEST WATER LEVEL 0.50 BELOW LSD, MAY 13, 1975,
 LOWEST WATER LEVEL 11.45 BELOW LSD, SEP. 27, 1978.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 27, 1978	11.45						

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 NGVD.
 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. 21, 1978	24.23						

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 NGVD.

HIGHEST WATER LEVEL 100.76 BELOW LSD, JULY 16, 1968.

LOWEST WATER LEVEL 110.92 BELOW LSD, SEP. 21, 1978.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 21, 1978	110.92						

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 NGVD.

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. 21, 1978	24.06						

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 NGVD.

HIGHEST WATER LEVEL 181.30 BELOW LSD, MAY 13, 1975.

LOWEST WATER LEVEL 192.68 BELOW LSD, SEP. 27, 1978.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 27, 1978	192.68						

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 NGVD.

HIGHEST WATER LEVEL 9.63 BELOW LSD, MAR. 26, 1969.

LOWEST WATER LEVEL 17.43 BELOW LSD, SEP. 27, 1978.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 27, 1978	17.43						

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 NGVD.

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. 27, 1978	69.70						

GROUND-WATER LEVELS

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MOREHOUSE PARISH

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 NGVD.
 HIGHEST WATER LEVEL 95.50 BELOW LSD, MAR. 10, 1969,
 LOWEST WATER LEVEL 106.10 BELOW LSD, SEP. 21, 1978.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 21, 1978	106.10						

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 NGVD.
 HIGHEST WATER LEVEL 67.18 BELOW LSD, SEP. 6, 1977,
 LOWEST WATER LEVEL 71.01 BELOW LSD, SEP. 27, 1978.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 27, 1978	71.01						

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 NGVD.
 HIGHEST WATER LEVEL 0.36 ABOVE LSD, AUG. 22, 1969,
 LOWEST WATER LEVEL 13.71 BELOW LSD, OCT. 1, 1956.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1977	11.00G	JAN. 23, 1978	4.40G	MAY 9, 1978	7.60G	JULY 13, 1978	8.60G
OCT. 31	9.20G	MAR. 6	5.60G	JUNE 12	6.70G	AUG. 11	9.30G
DEC. 1	6.20G	MAR. 30	6.41	JUNE 14	8.06	SEP. 19	9.24
DEC. 23	5.92	APR. 7	6.80G				

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.
 LSD 85.00 FT NGVD.
 HIGHEST WATER LEVEL 119.70 BELOW LSD, MAR. 17, 1964,
 LOWEST WATER LEVEL 132.29 BELOW LSD, SEP. 6, 1977.
 RECORDS AVAILABLE 1964-70, 1970-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1978	130.98	SEP. 22	131.48				

See footnotes at end of table.

LOUISIANA - OUACHITA PARISH

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 NGVD.
 HIGHEST WATER LEVEL 168.82 BELOW LSD, JULY 7, 1952,
 LOWEST WATER LEVEL 276.75 BELOW LSD, AUG. 28, 1978.
 RECORDS AVAILABLE 1946-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1977	252.64	FEB. 5, 1978	246.98	APR. 20, 1978	255.66	JULY 15, 1978	265.68
OCT. 10	251.88	FEB. 10	246.86	APR. 25	252.69	JULY 20	265.78
OCT. 15	249.23	FEB. 15	251.36	APR. 30	253.40	JULY 25	266.67
OCT. 20	254.75	FEB. 20	251.10	MAY 5	243.28	JULY 31	266.94
OCT. 25	254.21	FEB. 25	249.18	MAY 10	244.13	AUG. 5	269.69
OCT. 30	259.80	FEB. 28	250.68	MAY 13	238.09J	AUG. 10	269.99
OCT. 31	258.41J	MAR. 1	252.43H	MAY 15	241.75	AUG. 15	271.73
NOV. 5	258.19	MAR. 5	253.49	MAY 20	245.12	AUG. 20	271.86
NOV. 10	258.59	MAR. 10	251.93	MAY 25	254.01	AUG. 25	275.85
NOV. 15	252.12	MAR. 15	249.64	MAY 31	260.20	AUG. 28	276.75J
NOV. 20	254.12	MAR. 19	239.96J	JUNE 5	249.21	AUG. 31	269.17
NOV. 25	252.43	MAR. 20	247.04	JUNE 10	260.11	SEP. 5	251.14
NOV. 28	250.58H	MAR. 25	250.85	JUNE 15	259.42	SEP. 10	272.25
NOV. 30	249.51	MAR. 31	249.21	JUNE 20	263.71	SEP. 15	273.74
DEC. 5	248.90	APR. 5	252.81	JUNE 24	266.69	SEP. 20	271.69
JAN. 19, 1978	236.31J	APR. 10	259.28	JUNE 25	253.28	SEP. 25	270.79
JAN. 20	239.97	APR. 11	260.26J	JUNE 30	262.90H	SEP. 27	269.28H
JAN. 25	253.15	APR. 13	254.10H	JULY 5	263.93	SEP. 29	269.38J
JAN. 26	254.48J	APR. 15	260.02	JULY 10	261.20	SEP. 30	266.74
JAN. 31	247.22						

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 NGVD.
 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. 8, 1977	92.65	MAR. 1, 1978	92.15	JUNE 21, 1978	92.12	SEP. 22, 1978	92.77

323044092035701 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 NGVD.
 HIGHEST WATER LEVEL 65.04 BELOW LSD, MAR. 5, 1946,
 LOWEST WATER LEVEL 142.20 BELOW LSD, SEP. 28, 1978.
 RECORDS AVAILABLE 1946, 1948-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 29, 1977	131.32	MAR. 1, 1978	130.40	JUNE 5, 1978	135.29	SEP. 28, 1978	142.20
JAN. 17, 1978	130.20	APR. 14	131.35				

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 NGVD.
 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. 8, 1977	16.71	FEB. 22, 1978	12.73	JUNE 5, 1978	12.78	SEP. 28, 1978	16.83
JAN. 17, 1978	16.10	APR. 13	13.76				

See footnotes at end of table.

GROUND-WATER LEVELS

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OUACHITA PARISH

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 NGVD.
 HIGHEST WATER LEVEL 12.78 BELOW LSD, JAN. 17, 1968.
 LOWEST WATER LEVEL 26.99 BELOW LSD, SEP. 29, 1978.
 RECORDS AVAILABLE 1963-70, 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 29, 1978	26.99						

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 NGVD.
 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. 25, 1978	17.25						

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 NGVD.
 HIGHEST WATER LEVEL 70.11 BELOW LSD, APR. 27, 1967.
 LOWEST WATER LEVEL 94.59 BELOW LSD, SEP. 29, 1978.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1978	91.91	SEP. 29	94.59				

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 NGVD.
 HIGHEST WATER LEVEL 37.01 BELOW LSD, JULY 5, 1965.
 LOWEST WATER LEVEL 46.68 BELOW LSD, SEP. 29, 1978.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	45.77	SEP. 25	46.63	SEP. 29, 1978	46.68		

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 NGVD.
 HIGHEST WATER LEVEL 40.71 BELOW LSD, SEP. 13, 1967.
 LOWEST WATER LEVEL 53.63 BELOW LSD, SEP. 29, 1978.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 8, 1977	51.39	MAR. 1, 1978	51.19	JUNE 15, 1978	51.59	SEP. 29, 1978	53.63

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 NGVD.

HIGHEST WATER LEVEL 62.27 BELOW LSD, AUG. 7, 1968.

LOWEST WATER LEVEL 77.51 BELOW LSD, SEP. 25, 1978.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1977	74.85	FEB. 22, 1978	74.88	JUNE 15, 1978	75.97	SEP. 25, 1978	77.51

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 NGVD.

HIGHEST WATER LEVEL 91.89 BELOW LSD, JULY 19, 1968.

LOWEST WATER LEVEL 112.81 BELOW LSD, SEP. 25, 1978.

RECORDS AVAILABLE 1965-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	108.35	SEP. 25	112.81				

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 NGVD.

HIGHEST WATER LEVEL 115.06 BELOW LSD, JAN. 17, 1968.

LOWEST WATER LEVEL 136.49 BELOW LSD, SEP. 25, 1978.

RECORDS AVAILABLE 1965-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	132.47	SEP. 25	136.49				

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 NGVD.

HIGHEST WATER LEVEL 168.40 BELOW LSD, AUG. 20, 1969.

LOWEST WATER LEVEL 188.56 BELOW LSD, SEP. 27, 1978.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	182.69	SEP. 27	188.56				

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 NGVD.

HIGHEST WATER LEVEL 171.15 BELOW LSD, AUG. 20, 1969.

LOWEST WATER LEVEL 191.65 BELOW LSD, SEP. 27, 1978.

RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	185.02	SEP. 27	191.65				

OUACHITA PARISH

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 NGVD.

HIGHEST WATER LEVEL 191.97 BELOW LSD, APR. 13, 1970,

LOWEST WATER LEVEL 218.46 BELOW LSD, SEP. 27, 1978.

RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 1, 1978	210.43	SEP. 27	218.46				

RAPIDES PARISH

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 NGVD.

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. 11, 1977	119.09	FEB. 15, 1978	117.48	MAY 23, 1978	142.90	AUG. 11, 1978	136.93
JAN. 6, 1978	113.30	MAR. 31	121.26	JULY 10	139.25	SEP. 19	111.45

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 NGVD.

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. 4, 1977	101.02	FEB. 28, 1978	97.68	MAY 11, 1978	97.65	JULY 25, 1978	99.81
OCT. 5	101.01	MAR. 5	97.43	MAY 15	97.38	JULY 31	99.67
OCT. 10	100.92	MAR. 10	97.07	MAY 20	97.19	AUG. 5	99.68
OCT. 15	100.90	MAR. 15	96.78	MAY 23	97.11H	AUG. 10	99.89
OCT. 20	100.90	MAR. 20	96.71	MAY 25	97.00	AUG. 11	99.93H
OCT. 25	100.79	MAR. 23	96.60H	MAY 31	96.86	AUG. 15	100.06
OCT. 31	100.61	MAR. 25	96.49	JUNE 5	97.02	AUG. 20	100.27
NOV. 5	100.02	MAR. 31	96.24	JUNE 7	96.70J	AUG. 25	100.34
NOV. 10	99.66	APR. 3	96.15J	JUNE 10	96.61	AUG. 31	100.37
NOV. 15	99.22	APR. 5	96.21	JUNE 15	96.81	SEP. 5	100.34
NOV. 20	98.79	APR. 10	96.43	JUNE 20	97.38	SEP. 10	100.43
NOV. 25	98.48	APR. 15	96.35	JUNE 25	97.90	SEP. 15	100.45
NOV. 30	97.97	APR. 20	96.45	JUNE 30	98.44	SEP. 19	100.47H
JAN. 6, 1978	99.07H	APR. 25	97.19	JULY 5	98.78	SEP. 20	100.46
FEB. 15	97.85H	APR. 30	97.64	JULY 10	99.05J	SEP. 25	100.52
FEB. 20	97.47	MAY 5	97.48	JULY 15	99.38	SEP. 30	100.58
FEB. 25	97.58	MAY 10	97.61	JULY 20	99.09H		

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 NGVD.

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. 8, 1977	50.77	FEB. 16, 1978	50.75	MAY 12, 1978	50.34	AUG. 9, 1978	51.17
JAN. 5, 1978	50.65	MAR. 23	50.88	JULY 20	51.08	SEP. 21	51.33

See footnotes at end of table.

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 NGVD.

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, 1977	53.51	JAN. 10, 1978	55.30	APR. 6, 1978	52.68J	JULY 15, 1978	55.73
OCT. 8	51.70J	JAN. 15	55.37	APR. 10	54.80	JULY 19	55.86J
OCT. 10	53.53	JAN. 19	54.76J	APR. 15	54.97	JULY 20	55.81H
OCT. 15	54.00	JAN. 25	55.49	APR. 20	55.08	JULY 21	55.87J
OCT. 20	54.25	JAN. 28	55.66J	APR. 25	55.16	JULY 25	55.61
OCT. 25	54.55	JAN. 31	55.57	APR. 30	55.16	JULY 31	54.58J
OCT. 31	53.89	FEB. 5	55.33	MAY 5	55.20	AUG. 5	55.69
NOV. 5	54.65	FEB. 10	55.31	MAY 10	55.33	AUG. 9	55.74
NOV. 9	54.92J	FEB. 15	55.28H	MAY 11	55.27H	AUG. 10	55.73
NOV. 10	54.73H	FEB. 17	55.27J	MAY 15	54.33	AUG. 14	55.09J
NOV. 15	54.60	FEB. 20	55.23	MAY 20	52.25	AUG. 15	55.90
NOV. 20	54.66	FEB. 25	55.20	MAY 25	51.16	AUG. 20	56.17
NOV. 25	54.69	FEB. 26	53.63J	MAY 29	50.87J	AUG. 25	56.08
NOV. 30	54.68	FEB. 28	54.96	MAY 31	53.73	AUG. 31	56.27
DEC. 5	52.00	MAR. 5	54.83	JUNE 5	54.60	SEP. 5	56.49
DEC. 8	51.51J	MAR. 10	54.88	JUNE 10	54.95	SEP. 6	56.53J
DEC. 10	53.73	MAR. 15	54.93	JUNE 15	55.17	SEP. 10	56.27
DEC. 15	54.60	MAR. 20	54.91	JUNE 20	55.27	SEP. 15	56.27
DEC. 20	55.00	MAR. 23	54.92H	JUNE 25	55.39	SEP. 20	56.31
DEC. 25	54.69	MAR. 25	54.87	JUNE 30	55.19	SEP. 25	56.34
DEC. 31	54.77	MAR. 31	54.92	JULY 5	55.58	SEP. 30	56.40
JAN. 5, 1978	55.20H	APR. 5	53.52	JULY 10	55.64		

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 NGVD.

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. 10, 1977	61.60	FEB. 15, 1978	60.40	MAY 11, 1978	60.32	AUG. 17, 1978	61.20
JAN. 11, 1978	62.07	MAR. 24	60.11	JULY 21	60.78	SEP. 21	61.47

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 NGVD.

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, 1977	47.48	DEC. 31, 1977	45.97	MAR. 16, 1978	46.51J	JUNE 28, 1978	47.31J
OCT. 10	47.33	JAN. 5, 1978	45.96H	MAR. 20	44.97	JUNE 30	46.83
OCT. 15	47.28	JAN. 8	47.31J	MAR. 23	45.90H	JULY 5	45.37
OCT. 19	48.76J	JAN. 10	46.73	MAR. 25	44.96	JULY 10	45.68
OCT. 20	48.05	JAN. 15	45.95	MAR. 31	46.20	JULY 15	45.79
OCT. 25	47.26	JAN. 20	46.38	APR. 2	46.81J	JULY 20	46.00H
OCT. 31	46.98	JAN. 25	45.69	APR. 5	46.08	JULY 21	45.97J
NOV. 5	46.59	JAN. 31	45.36	APR. 10	45.56	JULY 25	46.21
NOV. 8	46.42J	FEB. 5	45.07	APR. 15	45.42	JULY 31	47.03
NOV. 10	48.79H	FEB. 7	44.91J	MAY 11	46.18H	AUG. 5	47.93J
NOV. 15	46.20	FEB. 9	45.56H	MAY 15	46.37	AUG. 9	46.55H
NOV. 20	46.21	FEB. 10	45.18	MAY 20	46.26	AUG. 10	47.45
NOV. 25	46.34	FEB. 15	45.75	MAY 25	45.62	AUG. 15	47.68
NOV. 30	46.22	FEB. 20	45.49	MAY 26	44.73J	AUG. 20	47.97
DEC. 5	45.97	FEB. 25	45.39	MAY 31	46.67	AUG. 25	47.29
DEC. 10	46.84	FEB. 28	45.01	JUNE 5	45.74	AUG. 29	48.24J
DEC. 15	47.04	MAR. 5	44.92	JUNE 10	45.76	SEP. 21	49.93H
DEC. 19	45.76J	MAR. 9	44.15J	JUNE 15	46.15	SEP. 25	50.20
DEC. 20	46.87	MAR. 10	45.59	JUNE 20	45.75	SEP. 27	50.27J
DEC. 25	46.38	MAR. 15	45.03	JUNE 25	45.76	SEP. 30	48.97

See footnotes at end of table.

RAPIDES PARISH

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 NGVD.
 HIGHEST WATER LEVEL 56.93 BELOW LSD, JUNE 3, 1977.
 LOWEST WATER LEVEL 52.26 BELOW LSD, OCT. 19, 1971.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1977	59.76	FEB. 15, 1978	58.83	MAY 11, 1978	58.54	AUG. 9, 1978	59.01
JAN. 4, 1978	59.25	MAR. 24	58.43	JULY 24	58.99	SEP. 21	59.43

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 NGVD.
 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. 9, 1977	54.69	FEB. 15, 1978	53.10	MAY 11, 1978	52.96	AUG. 9, 1978	53.23
JAN. 4, 1978	53.36	MAR. 24	52.81	JULY 21	53.13	SEP. 21	53.52

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 NGVD.
 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
OCT. 5, 1977	44.17	NOV. 5, 1977	44.18	DEC. 5, 1977	44.12	MAR. 20, 1978	44.10H
OCT. 10	44.16	NOV. 10	44.23	DEC. 10	44.35	MAY 9	44.13H
OCT. 15	44.17	NOV. 15	44.17	DEC. 15	44.17	JUNE 28	44.11H
OCT. 20	44.18	NOV. 20	44.19	DEC. 20	44.32	AUG. 9	44.16H
OCT. 25	44.19	NOV. 25	44.20	JAN. 31, 1978	44.30	SEP. 19	44.26H
OCT. 30	44.18	NOV. 30	43.95				

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 NGVD.
 HIGHEST WATER LEVEL 34.14 BELOW LSD, APR. 30, 1968.
 LOWEST WATER LEVEL 53.71 BELOW LSD, SEP. 30, 1978.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1977	51.80	JAN. 10, 1978	53.25	APR. 15, 1978	52.02	JULY 10, 1978	52.88
OCT. 10	51.98	JAN. 15	53.09	APR. 20	51.99	JULY 15	52.96
OCT. 15	52.13	JAN. 20	52.87	APR. 25	51.99	JULY 20	53.05H
OCT. 20	51.22	JAN. 25	52.79	APR. 30	52.02	JULY 21	52.98J
OCT. 23	50.55J	JAN. 29	52.78J	MAY 3	51.95J	JULY 22	52.98J
OCT. 25	51.30	JAN. 31	52.81	MAY 5	52.03	JULY 25	53.13
OCT. 31	52.12	FEB. 5	52.88	MAY 10	52.12	JULY 31	53.24
NOV. 5	52.38	FEB. 10	52.86	MAY 11	52.14H	AUG. 5	53.29
NOV. 10	52.50H	FEB. 15	52.86H	MAY 12	52.07J	AUG. 9	53.40H
NOV. 15	52.67	FEB. 20	52.78	MAY 15	52.18	AUG. 10	53.40
NOV. 20	52.84	FEB. 25	52.65	MAY 20	52.36	AUG. 15	52.06
NOV. 25	52.98	FEB. 28	52.59	MAY 25	52.43	AUG. 20	52.40
NOV. 30	53.08	MAR. 5	52.61	MAY 31	52.40	AUG. 25	52.95
DEC. 5	53.18	MAR. 10	52.50	JUNE 5	52.42	AUG. 31	52.78
DEC. 10	53.25	MAR. 15	52.40	JUNE 10	52.45	SEP. 5	52.70
DEC. 15	53.27	MAR. 20	52.32	JUNE 15	52.52	SEP. 10	53.19
DEC. 20	53.37	MAR. 23	52.25H	JUNE 20	52.60	SEP. 15	53.40
DEC. 25	53.45	MAR. 25	52.24	JUNE 25	52.64	SEP. 20	53.49
DEC. 31	53.57	MAR. 31	52.20	JUNE 30	52.57	SEP. 25	53.62
JAN. 1, 1978	53.59J	APR. 5	52.10	JULY 5	52.78	SEP. 30	53.71
JAN. 5	53.39H	APR. 10	52.04				

See footnotes at end of table.

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 NGVD.
 HIGHEST WATER LEVEL 209.43 BELOW LSD, APR. 8, 1969.
 LOWEST WATER LEVEL 214.81 BELOW LSD, SEP. 22, 1978.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	214.22	FEB. 9, 1978	214.26	MAY 22, 1978	214.37	AUG. 10, 1978	214.76
DEC. 21	214.53	MAR. 30	213.49	JULY 7	214.58	SEP. 22	214.81

312339092094501 LOCAL WELL NUMBER: R-893

OWNER: LA. OFF. 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 NGVD.
 HIGHEST WATER LEVEL 28.23 BELOW LSD, APR. 15, 1970.
 LOWEST WATER LEVEL 65.58 BELOW LSD, JAN. 6, 1978.
 RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 18, 1977	60.24	MAR. 20, 1978	63.53	JUNE 28, 1978	60.72	AUG. 9, 1978	62.79
JAN. 6, 1978	65.58	MAY 9	62.38	JULY 12	62.47	SEP. 20	63.32
JAN. 31	64.80						

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 NGVD.
 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. 10, 1977	42.62	FEB. 7, 1978	40.95	MAY 12, 1978	39.81	AUG. 17, 1978	41.99
JAN. 5, 1978	41.74	MAR. 23	39.47	JULY 20	41.61	SEP. 19	42.84

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 NGVD.
 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. 10, 1977	33.79	FEB. 7, 1978	33.87	MAY 14, 1978	33.64	AUG. 17, 1978	34.09
JAN. 5, 1978	33.87	MAR. 23	33.59	JULY 20	33.95	SEP. 19	34.13

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 NGVD.
 HIGHEST WATER LEVEL 40.88 BELOW LSD, MAY 19, 1976.
 LOWEST WATER LEVEL 43.92 BELOW LSD, JAN. 4, 1978.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	43.13	FEB. 7, 1978	43.10	MAY 12, 1978	42.73	AUG. 17, 1978	43.31
JAN. 4, 1978	43.92	MAR. 24	42.59	JULY 21	43.19	SEP. 19	43.48

GROUND-WATER LEVELS

379

RAPIDES PARISH

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 NGVD.
 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. 10, 1977	63.02	FEB. 9, 1978	63.02	MAY 12, 1978	62.70	AUG. 17, 1978	62.83
DEC. 2	62.03	MAR. 23	62.78	JULY 21	62.60	SEP. 19	63.34
JAN. 4, 1978	63.11	APR. 7	62.69				

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 NGVD.
 HIGHEST WATER LEVEL 44.77 BELOW LSD, MAY 9, 1974.
 LOWEST WATER LEVEL 48.40 BELOW LSD, NOV. 10, 1977, SEP. 21, 1978.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	48.40	FEB. 7, 1978	47.97	MAY 12, 1978	47.50	AUG. 17, 1978	48.14
JAN. 4, 1978	48.16	MAR. 23	47.57	JULY 21	47.90	SEP. 21	48.40

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 NGVD.
 HIGHEST WATER LEVEL 4.14 BELOW LSD, MAR. 9, 1977.
 LOWEST WATER LEVEL 7.62 BELOW LSD, SEP. 21, 1978.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	7.40	FEB. 7, 1978	5.47	MAY 12, 1978	6.28	AUG. 17, 1978	6.62
JAN. 5, 1978	7.09	MAR. 24	5.33	JULY 21	6.62	SEP. 21	7.62

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 NGVD.
 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. 10, 1977	48.63	FEB. 7, 1978	47.83	MAY 12, 1978	47.69	AUG. 17, 1978	48.51
JAN. 5, 1978	48.19	MAR. 24	47.27	JULY 21	48.31	SEP. 21	48.62

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 NGVD.
 HIGHEST WATER LEVEL 35.59 BELOW LSD, MAR. 21, 1974.
 LOWEST WATER LEVEL 42.30 BELOW LSD, NOV. 10, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	42.30	FEB. 7, 1978	41.63	MAY 12, 1978	40.76	AUG. 17, 1978	41.78
JAN. 4, 1978	41.98	MAR. 24	40.63	JULY 21	41.41	SEP. 21	42.19

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 NGVD.
 HIGHEST WATER LEVEL 2.77 BELOW LSD, NOV. 10, 1977.
 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. 10, 1977	2.77	FEB. 7, 1978	3.12	MAY 12, 1978	3.98	AUG. 17, 1978	3.79
JAN. 4, 1978	3.79	MAR. 24	3.33	JULY 21	4.38	SEP. 21	4.37

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 NGVD.
 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. 10, 1977	1.91	FEB. 7, 1978	1.88	MAY 12, 1978	2.87	AUG. 17, 1978	3.49
JAN. 4, 1978	2.60	MAR. 24	2.23	JULY 21	3.39	SEP. 21	3.42

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 NGVD.
 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. 10, 1977	45.40	FEB. 7, 1978	43.85	MAY 12, 1978	43.86	AUG. 17, 1978	45.24
JAN. 4, 1978	44.56	MAR. 24	43.32	JULY 21	44.86	SEP. 21	45.58

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 NGVD.
 HIGHEST WATER LEVEL 47.37 BELOW LSD, MAR. 21, 1974.
 LOWEST WATER LEVEL 51.78 BELOW LSD, SEP. 19, 1978.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	51.58	FEB. 7, 1978	50.38	MAY 12, 1978	50.00	AUG. 17, 1978	51.29
JAN. 4, 1978	50.90	MAR. 24	50.09	JULY 21	50.95	SEP. 19	51.78

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 NGVD.
 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. 10, 1977	73.80	FEB. 7, 1978	72.52	MAY 12, 1978	71.60	AUG. 17, 1978	72.61
JAN. 11, 1978	72.85	MAR. 23	71.98	JULY 21	72.28	SEP. 17	73.13

GROUND-WATER LEVELS

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RAPIDES PARISH

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 NGVD.
 HIGHEST WATER LEVEL 6.71 BELOW LSD, MAR. 19, 1976,
 LOWEST WATER LEVEL 9.34 BELOW LSD, SEP. 21, 1978.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	7.55	FEB. 9, 1978	7.28	MAY 12, 1978	8.68	AUG. 17, 1978	9.29
JAN. 4, 1978	8.24	MAR. 24	7.94	JULY 21	9.25	SEP. 21	9.34

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 NGVD.
 HIGHEST WATER LEVEL 6.55 BELOW LSD, MAY 3, 1977,
 LOWEST WATER LEVEL 11.67 BELOW LSD, MAY 12, 1978.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	9.79	FEB. 15, 1978	9.34	MAY 12, 1978	11.67	AUG. 17, 1978	11.04
JAN. 4, 1978	10.29	MAR. 24	10.01	JULY 21	11.06	SEP. 21	11.16

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 NGVD.
 HIGHEST WATER LEVEL 6.84 BELOW LSD, MAY 3, 1977,
 LOWEST WATER LEVEL 10.79 BELOW LSD, SEP. 21, 1978.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	9.44	FEB. 15, 1978	8.47	MAY 12, 1978	10.02	AUG. 17, 1978	10.33
JAN. 4, 1978	9.02	MAR. 24	9.21	JULY 21	10.55	SEP. 21	10.79

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 NGVD.
 HIGHEST WATER LEVEL 66.89 BELOW LSD, OCT. 29, 1975,
 LOWEST WATER LEVEL 70.22 BELOW LSD, NOV. 10, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	70.22	FEB. 16, 1978	69.86	MAY 12, 1978	69.24	AUG. 17, 1978	69.60
JAN. 4, 1978	70.10	MAR. 24	69.57	JULY 21	69.51	SEP. 21	69.98

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 NGVD.
 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. 10, 1977	4.52	MAR. 24, 1978	3.43	JULY 21, 1978	6.00	SEP. 21, 1978	7.07
JAN. 4, 1978	3.77	MAY 14	6.70	AUG. 17	7.98		

LOUISIANA - 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 NGVD.
 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. 10, 1977	89.31	FEB. 16, 1978	88.87	MAY 11, 1978	88.51	AUG. 17, 1978	88.78
JAN. 5, 1978	88.85	MAR. 23	88.54	JULY 21	88.59	SEP. 21	88.90

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 NGVD.
 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. 10, 1977	37.83	FEB. 16, 1978	36.48	MAY 11, 1978	36.73	AUG. 17, 1978	37.08
JAN. 5, 1978	37.20	MAR. 24	36.33	JULY 21	37.75	SEP. 21	38.29

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 NGVD.
 HIGHEST WATER LEVEL 38.58 BELOW LSD, NOV. 13, 1975,
 LOWEST WATER LEVEL 44.80 BELOW LSD, SEP. 21, 1978.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1977	43.64	FEB. 16, 1978	43.62	MAY 11, 1978	43.43	AUG. 15, 1978	44.38
JAN. 4, 1978	43.82	MAR. 24	43.34	JULY 21	43.90	SEP. 21	44.80

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 NGVD.
 HIGHEST WATER LEVEL 73.63 BELOW LSD, NOV. 10, 1977,
 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. 10, 1977	73.63	FEB. 16, 1978	76.72	MAY 11, 1978	76.19	AUG. 17, 1978	76.83
JAN. 5, 1978	76.83	MAR. 24	76.40	JULY 24	76.66	SEP. 21	77.21

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 NGVD.
 HIGHEST WATER LEVEL 1.70 ABOVE LSD, MAR. 7, 1977,
 LOWEST WATER LEVEL 7.84 BELOW LSD, AUG. 9, 1978.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 9, 1977	3.61	FEB. 16, 1978	1.04	MAY 12, 1978	6.27	AUG. 9, 1978	7.84
JAN. 5, 1978	3.24	MAR. 23	4.12	JULY 20	7.80	SEP. 21	6.22

GROUND-WATER LEVELS

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RAPIDES PARISH

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 NGVD.
 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. 10, 1977	164.40	FEB. 15, 1978	166.65	MAY 11, 1978	168.20	SEP. 21, 1978	177.56
JAN. 4, 1978	164.80	MAR. 23	167.35	JULY 21	174.13		

305940092433801 LOCAL WELL NUMBER: R-1060

OWNER: VANCE JOHNSON. (SEC. 1, T. 1S., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN TERRACE 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 NGVD.
 HIGHEST WATER LEVEL 27.27 BELOW LSD, JUNE 20, 1975,
 LOWEST WATER LEVEL 30.60 BELOW LSD, NOV. 17, 1977.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	30.60	MAR. 2, 1978	29.48				

305614092460001 LOCAL WELL NUMBER: R-1063

OWNER: RAPIDES PARISH SCHOOL BD. (SEC. 27, T. 1S., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN TERRACE 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 NGVD.
 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. 16, 1977	64.66	MAR. 2, 1978	64.26				

305755092390801 LOCAL WELL NUMBER: R-1065

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 1S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN TERRACE 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 NGVD.
 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. 17, 1977	19.96	MAR. 2, 1978	18.53				

305716092323701 LOCAL WELL NUMBER: R-1066

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 1S., R. 2W.) DRILLED OBSERVATION WATER-TABLE WELL IN TERRACE 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 NGVD.
 HIGHEST WATER LEVEL 53.24 BELOW LSD, AUG. 7, 1974,
 LOWEST WATER LEVEL 57.02 BELOW LSD, NOV. 17, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	57.02	MAR. 2, 1978	56.12				

LOUISIANA - RICHLAND PARISH

RAPIDES PARISH

310104092481801 LOCAL WELL NUMBER: R-1067

OWNER: U. S. GEOL. SURVEY. (SEC. 32, T. 1N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN BLOUNTS CREEK MEMBER OF THE FLEMING FORMATION OF MIOCENE-PLIOCENE 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 NGVD.
 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, 1977	37.50	MAR. 2, 1978	36.17				

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-PLIOCENE AGE, DIAM 2 IN, DEPTH 500 FT, SCREENED 490-500. MP TOP OF CASING, AT LSD.
 LSD 100.00 FT NGVD.
 HIGHEST WATER LEVEL 38.60 BELOW LSD, MAY 20, 1975.
 LOWEST WATER LEVEL 49.97 BELOW LSD, SEP. 19, 1978.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1977	48.39	FEB. 7, 1978	48.50	MAY 12, 1978	49.07	AUG. 11, 1978	49.90
JAN. 5, 1978	48.56	MAR. 24	48.29	JULY 20	49.82	SEP. 19	49.97

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 NGVD.
 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. 12, 1977	14.10G	DEC. 5, 1977	14.20G	MAR. 15, 1978	12.40G	JULY 19, 1978	13.50G
OCT. 17	13.45	JAN. 6, 1978	14.68	APR. 18	12.70G	SEP. 11	15.84
NOV. 2	14.30G	JAN. 17	14.30G	MAY 12	12.50G	SEP. 12	14.50G
NOV. 30	13.61	FEB. 16	11.30G	JUNE 22	12.70G		

RICHLAND PARISH

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 NGVD.
 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
DEC. 8, 1977	19.24	MAY 26, 1978	18.75				

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 NGVD.
 HIGHEST WATER LEVEL 17.75 BELOW LSD, MAY 21, 1975.
 LOWEST WATER LEVEL 21.23 BELOW LSD, SEP. 10, 1969.
 RECORDS AVAILABLE 1969-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 7, 1977	19.65	MAY 26, 1978	19.37				

See footnotes at end of table.

GROUND-WATER LEVELS

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RICHLAND PARISH

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 NGVD.

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
DEC. 7, 1977	11.58	MAY 26, 1978	11.25				

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 NGVD.

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
DEC. 7, 1977	11.52	MAY 26, 1978	11.23				

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 NGVD.

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
DEC. 7, 1977	16.38	MAY 25, 1978	16.34				

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 NGVD.

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
DEC. 8, 1977	12.62	MAY 26, 1978	12.62				

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 NGVD.

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
DEC. 8, 1977	24.16	MAY 26, 1978	24.04				

LOUISIANA - SABINE PARISH

RICHLAND PARISH

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 NGVD.

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
DEC. 8, 1977	15.88	MAY 26, 1978	15.70				

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 NGVD.

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
DEC. 7, 1977	15.93	MAY 25, 1978	15.73				

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 NGVD.

HIGHEST WATER LEVEL 31.91 BELOW LSD, AUG. 7, 1975.

LOWEST WATER LEVEL 34.95 BELOW LSD, DEC. 4, 1972.

RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 7, 1977	33.33	MAY 26, 1978	33.43				

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. RIVER 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 NGVD.

HIGHEST WATER LEVEL 32.13 BELOW LSD, AUG. 7, 1975.

LOWEST WATER LEVEL 33.68 BELOW LSD, MAY 26, 1978.

RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 7, 1977	33.51	MAY 26, 1978	33.68				

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 NGVD.

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. 20, 1977	12.91	MAR. 28, 1978	11.52	JUNE 14, 1978	14.73	SEP. 21, 1978	16.61

GROUND-WATER LEVELS

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SABINE PARISH

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 NGVD.
 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. 20, 1977	84.95	MAR. 28, 1978	83.96	JUNE 14, 1978	84.46	SEP. 20, 1978	88.50

312243093240501 LOCAL WELL NUMBER: SA-287

OWNER: A. J. HUGHES. (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 NGVD.
 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. 17, 1977	65.70	FEB. 8, 1978	65.36	MAY 18, 1978	65.60	AUG. 3, 1978	64.99
DEC. 20	65.74	MAR. 28	66.34	JULY 6	65.90	SEP. 21	66.05

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 NGVD.
 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. 16, 1977	17.22	FEB. 8, 1978	14.66	MAY 18, 1978	15.62	AUG. 3, 1978	16.98
DEC. 20	17.41	MAR. 27	14.40	JULY 7	15.86	SEP. 21	16.89

311929093312301 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 NGVD.
 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. 16, 1977	44.84	FEB. 8, 1978	43.16	MAY 18, 1978	42.81	AUG. 3, 1978	42.93
DEC. 21	45.37	MAR. 28	42.47	JULY 7	42.96	SEP. 21	42.93

311929093312302 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 NGVD.
 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. 16, 1977	43.92	FEB. 8, 1978	42.21	MAY 18, 1978	41.48	AUG. 3, 1978	42.35
DEC. 21	44.68	MAR. 28	41.83	JULY 7	42.13	SEP. 21	42.40

LOUISIANA - SABINE PARISH

312314093352901 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 NGVD.

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. 21, 1977	74.47	JUNE 14, 1978	74.03	JULY 7, 1978	74.03	SEP. 21, 1978	74.43
MAR. 28, 1978	73.86						

312604093315801 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 NGVD.

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. 21, 1977	116.28	MAR. 28, 1978	115.79	JUNE 14, 1978	116.34	SEP. 21, 1978	116.53

312206093311001 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 NGVD.

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. 16, 1977	25.11	FEB. 8, 1978	24.78	MAY 18, 1978	25.17	AUG. 3, 1978	26.02
DEC. 21	25.77	MAR. 28	24.79	JULY 7	25.93	SEP. 21	25.58

313748093451001 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 NGVD.

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. 15, 1977	109.94	FEB. 7, 1978	110.18	MAY 16, 1978	108.97	AUG. 3, 1978	109.06
DEC. 20	110.50	MAR. 29	109.86	JULY 6	109.12	SEP. 21	109.37

314620093460801 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 NGVD.

HIGHEST WATER LEVEL 1.03 ABOVE LSD, JUNE 5, 1968.

LOWEST WATER LEVEL 4.48 BELOW LSD, SEP. 20, 1978.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 15, 1977	3.32	FEB. 7, 1978	2.97	MAY 16, 1978	2.64	AUG. 3, 1978	3.13
DEC. 20	3.18	MAR. 29	2.76	JULY 6	3.04	SEP. 20	4.48

SABINE PARISH

312748093393801 LOCAL WELL NUMBER: SA-462

OWNER: U. S. GEOL. SURVEY. (SEC. 36, T. 6N., R. 13W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 178 FT, SCREENED 168-178. MP TOP OF CASING, 3.94 FT ABOVE LSD.
 LSD 280.00 FT NGVD.
 HIGHEST WATER LEVEL 103.06 BELOW LSD, FEB. 23, 1978, APR. 6, 1978,
 LOWEST WATER LEVEL 103.54 BELOW LSD, SEP. 21, 1978.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 23, 1978	103.06	MAY 18, 1978	103.28	AUG. 3, 1978	103.37	SEP. 21, 1978	103.54
APR. 6	103.06	JULY 13	103.31				

312725093325301 LOCAL WELL NUMBER: SA-465

OWNER: U. S. GEOL. SURVEY. (SEC. 39, T. 6N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF PALEOCENE-EOCENE AGE, DIAM 2 IN, DEPTH 80 FT, SCREENED 70-80. MP TOP OF CASING, 4.04 FT ABOVE LSD.
 LSD 265.00 FT NGVD.
 HIGHEST WATER LEVEL 42.74 BELOW LSD, MAR. 10, 1978, APR. 6, 1978,
 LOWEST WATER LEVEL 45.70 BELOW LSD, SEP. 21, 1978.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 10, 1978	42.74	MAY 18, 1978	44.26	AUG. 3, 1978	45.56	SEP. 21, 1978	45.70
APR. 6	42.74	JULY 13	45.22				

ST. LANDRY PARISH

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 NGVD.
 HIGHEST WATER LEVEL 68.56 BELOW LSD, JUNE 7, 1966,
 LOWEST WATER LEVEL 96.57 BELOW LSD, NOV. 1, 1977.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1977	96.57	FEB. 16, 1978	90.25	APR. 24, 1978	92.02	JULY 19, 1978	93.02
DEC. 6	94.00	FEB. 28	92.99	MAY 24	91.65	AUG. 16	93.03
JAN. 17, 1978	93.02	MAR. 27	93.09	JUNE 20	91.72	SEP. 20	92.39

303105092143401 LOCAL WELL NUMBER: SL-98

OWNER: ADAIST 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 NGVD.
 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
FEB. 28, 1978	86.11						

304007091575201 LOCAL WELL NUMBER: SL-163

OWNER: LESTER WOODS. (SEC. 33, T. 4S., R. 5E.) DRILLED DOMESTIC AND STOCK-SUPPLY ARTESIAN WELL IN ATCHAFALAYA AQUIFER 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 NGVD.
 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
FEB. 28, 1978	14.08						

304645091492501 LOCAL WELL NUMBER: SL-171

OWNER: U. S. GEOL. SURVEY. (SEC. 23, T. 35., 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 NGVD.
 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
FEB. 28, 1978	7.17						

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 NGVD.
 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
FEB. 28, 1978	54.14						

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 NGVD.
 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
FEB. 28, 1978	28.13						

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 NGVD.
 HIGHEST WATER LEVEL 68.57 BELOW LSD, APR. 26, 1966,
 LOWEST WATER LEVEL 80.62 BELOW LSD, SEP. 20, 1978.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1977	78.96	FEB. 28, 1978	77.99	MAY 18, 1978	77.95	AUG. 16, 1978	80.50
DEC. 19	78.48	MAR. 27	78.06	JUNE 20	78.89	SEP. 20	80.62
FEB. 16, 1978	77.90	APR. 25	77.69	JULY 19	79.95		

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 NGVD.
 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
NOV. 2, 1977	93.88	FEB. 28, 1978	89.12	MAY 18, 1978	104.68	AUG. 16, 1978	100.62
DEC. 19	91.69	MAR. 27	92.78	JUNE 20	103.49	SEP. 20	97.95
FEB. 16, 1978	89.60	APR. 25	100.93	JULY 19	107.74		

GROUND-WATER LEVELS

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ST. LANDRY PARISH

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 NGVD.
 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, 1977	68.52	FEB. 16, 1978	67.74	APR. 24, 1978	67.63	JULY 19, 1978	68.84
DEC. 6	68.37	FEB. 28	68.00	MAY 24	68.00	AUG. 16	68.71
JAN. 17, 1978	67.60	MAR. 27	67.55	JUNE 20	68.29	SEP. 20	68.70

303109092041902 LOCAL WELL NUMBER: SL-207

OWNER: U. S. GEOL. SURVEY. (SEC. 85, T. 6S., 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 NGVD.
 HIGHEST WATER LEVEL 66.28 BELOW LSD, MAR. 26, 1968.
 LOWEST WATER LEVEL 76.64 BELOW LSD, DEC. 2, 1977.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1977	75.92	FEB. 16, 1978	74.73	APR. 24, 1978	74.48	JULY 19, 1978	75.44
DEC. 2	76.64	FEB. 28	74.68	MAY 24	74.40	AUG. 16	75.95
JAN. 17, 1978	74.89	MAR. 27	74.52	JUNE 20	74.97	SEP. 20	74.37

303247091544301 LOCAL WELL NUMBER: SL-208

OWNER: U. S. GEOL. SURVEY. (SEC. 20, T. 6S., 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 NGVD.
 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
FEB. 28, 1978	7.06						

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 NGVD.
 HIGHEST WATER LEVEL 49.90 BELOW LSD, APR. 25, 1967.
 LOWEST WATER LEVEL 57.05 BELOW LSD, FEB. 28, 1978.
 RECORDS AVAILABLE 1967-69, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 28, 1978	57.05						

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 NGVD.
 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. 20, 1977	13.12	MAR. 21, 1978	11.48	JUNE 13, 1978	11.29	SEP. 20, 1978	13.72

LOUISIANA - UNION PARISH

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 NGVD.

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. 20, 1977	15.17	MAR. 21, 1978	15.10	JUNE 13, 1978	9.74	SEP. 20, 1978	18.17

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 NGVD.

HIGHEST WATER LEVEL 141.11 BELOW LSD, JULY 26, 1959.

LOWEST WATER LEVEL 175.10 BELOW LSD, DEC. 20, 1977, JUNE 15, 1978.

RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 20, 1977	175.10	MAR. 9, 1978	174.84	JUNE 15, 1978	175.10		

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 NGVD.

HIGHEST WATER LEVEL 178.85 BELOW LSD, MAR. 25, 1969.

LOWEST WATER LEVEL 193.49 BELOW LSD, SEP. 20, 1978.

RECORDS AVAILABLE 1969-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1978	193.22	SEP. 20	193.49				

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 NGVD.

HIGHEST WATER LEVEL 134.31 BELOW LSD, MAY 13, 1969.

LOWEST WATER LEVEL 144.60 BELOW LSD, SEP. 20, 1978.

RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1978	143.86	SEP. 20	144.60				

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 NGVD.

HIGHEST WATER LEVEL 183.65 BELOW LSD, OCT. 8, 1968.

LOWEST WATER LEVEL 209.29 BELOW LSD, SEP. 28, 1978.

RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 6, 1977	204.96	MAR. 2, 1978	205.01	JUNE 2, 1978	206.45	SEP. 28, 1978	209.29

GROUND-WATER LEVELS

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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 NGVD.
 HIGHEST WATER LEVEL 182.27 BELOW LSD, MAR. 2, 1970,
 LOWEST WATER LEVEL 205.76 BELOW LSD, DEC. 6, 1977.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 6, 1977	205.76	MAR. 2, 1978	205.75	JUNE 2, 1978	205.12		

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 NGVD.
 HIGHEST WATER LEVEL 117.57 BELOW LSD, SEP. 9, 1968,
 LOWEST WATER LEVEL 143.66 BELOW LSD, SEP. 22, 1978.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 20, 1977	142.02	MAR. 9, 1978	142.41	JUNE 3, 1978	142.57	SEP. 22, 1978	143.66

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 NGVD.
 HIGHEST WATER LEVEL 111.29 BELOW LSD, OCT. 8, 1968,
 LOWEST WATER LEVEL 142.79 BELOW LSD, SEP. 22, 1978.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 20, 1977	138.41	MAR. 9, 1978	139.25	JUNE 2, 1978	139.44	SEP. 22, 1978	142.79

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 NGVD.
 HIGHEST WATER LEVEL 196.09 BELOW LSD, OCT. 17, 1968,
 LOWEST WATER LEVEL 217.48 BELOW LSD, SEP. 28, 1978.
 RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 2, 1978	214.81	SEP. 28	217.48				

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 NGVD.
 HIGHEST WATER LEVEL 179.06 BELOW LSD, OCT. 17, 1968,
 LOWEST WATER LEVEL 192.73 BELOW LSD, SEP. 28, 1978.
 RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 2, 1978	190.42	SEP. 28	192.73				

LOUISIANA - VERNON PARISH

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 NGVD.

HIGHEST WATER LEVEL 69.69 BELOW LSD, NOV. 12, 1968.

LOWEST WATER LEVEL 86.03 BELOW LSD, SEP. 20, 1978.

RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1978	85.02	SEP. 20	86.03				

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 NGVD.

HIGHEST WATER LEVEL 24.38 BELOW LSD, DEC. 16, 1968.

LOWEST WATER LEVEL 37.99 BELOW LSD, SEP. 20, 1978.

RECORDS AVAILABLE 1968-71, 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1978	36.90	SEP. 20	37.99				

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 NGVD.

HIGHEST WATER LEVEL 138.85 BELOW LSD, DEC. 11, 1977.

LOWEST WATER LEVEL 247.42 BELOW LSD, MAY 23, 1978.

RECORDS AVAILABLE 1941, 1952-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1977	236.41	DEC. 10, 1977	236.99	FEB. 10, 1978	236.65	APR. 20, 1978	237.53
OCT. 10	234.40	DEC. 11	138.85J	FEB. 15	236.03	APR. 25	239.41
OCT. 15	233.75	DEC. 15	235.07	FEB. 20	234.91	APR. 30	239.80
OCT. 20	232.63	DEC. 20	234.32	FEB. 25	236.73	MAY 5	239.93
OCT. 25	233.99	DEC. 21	233.74H	FEB. 28	236.31	MAY 10	240.89
OCT. 31	232.99	DEC. 25	233.92	MAR. 5	235.26	MAY 15	240.34
NOV. 5	232.73	DEC. 31	234.54	MAR. 10	235.77	MAY 20	243.46J
NOV. 10	233.32	JAN. 5, 1978	234.49	MAR. 15	236.61	MAY 23	247.42
NOV. 15	233.67	JAN. 7	231.64J	MAR. 20	238.97	MAY 25	244.72
NOV. 17	233.10H	JAN. 10	233.60	MAR. 25	237.15	MAY 31	243.16
NOV. 20	231.79	JAN. 15	233.96	MAR. 27	235.81H	JUNE 4	239.59J
NOV. 25	231.99	JAN. 20	235.18	MAR. 31	236.73	JUNE 5	240.13
NOV. 27	230.91J	JAN. 25	235.76	APR. 5	236.73	JUNE 10	241.71
NOV. 30	231.82	JAN. 31	236.91	APR. 10	237.22	JUNE 12	240.33H
DEC. 5	232.40	FEB. 5	235.54	APR. 15	237.37		

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 NGVD.

HIGHEST WATER LEVEL 143.26 BELOW LSD, JULY 10, 1961.

LOWEST WATER LEVEL 207.24 BELOW LSD, JULY 19, 1978.

RECORDS AVAILABLE 1941, 1943, 1958-61, 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 21, 1977	191.33	JULY 5, 1978	200.95	AUG. 5, 1978	205.76	SEP. 5, 1978	203.54
MAR. 27, 1978	192.52H	JULY 10	202.84	AUG. 10	205.39H	SEP. 10	203.85
JUNE 12	197.44	JULY 15	205.04	AUG. 11	205.50J	SEP. 15	202.94
JUNE 15	198.19	JULY 19	207.24J	AUG. 15	203.45	SEP. 20	202.79
JUNE 20	198.67	JULY 20	206.66	AUG. 20	204.01	SEP. 25	202.24
JUNE 25	200.09	JULY 25	204.92	AUG. 25	205.44	SEP. 30	201.55
JUNE 30	201.68	JULY 31	205.59	AUG. 31	204.55		

See footnotes at end of table.

GROUND-WATER LEVELS

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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 NGVD.

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, 1977	171.29	JAN. 26, 1978	171.67J	APR. 25, 1978	171.18	JULY 15, 1978	171.06
OCT. 10	169.88	JAN. 31	170.23	APR. 27	171.93J	JULY 18	172.97
OCT. 15	169.65	FEB. 5	170.61	APR. 30	170.41	JULY 20	170.58
OCT. 20	170.41	FEB. 10	170.94	MAY 5	171.46	JULY 25	171.57
OCT. 25	170.38	FEB. 15	170.91	MAY 10	170.33	JULY 31	171.65
OCT. 31	170.24	FEB. 20	170.51	MAY 15	170.38	AUG. 5	171.75
NOV. 5	170.45	FEB. 25	171.30	MAY 20	171.53	AUG. 10	172.27H
NOV. 9	169.27J	FEB. 28	169.50	MAY 22	171.06H	AUG. 15	171.43
NOV. 10	170.73	MAR. 5	170.91	MAY 23	170.28J	AUG. 17	170.65J
NOV. 15	170.59	MAR. 10	170.40	MAY 25	171.47	AUG. 20	171.68
NOV. 20	170.44	MAR. 15	169.80	MAY 31	170.83	AUG. 25	172.91
DEC. 21	170.32H	MAR. 20	170.73	JUNE 5	170.89	AUG. 31	173.05
DEC. 23	166.50J	MAR. 25	170.50	JUNE 10	171.07	SEP. 5	172.53
DEC. 25	169.63	MAR. 27	170.90H	JUNE 15	172.47	SEP. 10	172.51
DEC. 31	170.62	MAR. 31	170.76	JUNE 20	171.58	SEP. 15	172.11
JAN. 5, 1978	169.67	APR. 5	170.18	JUNE 25	171.87	SEP. 20	172.80
JAN. 10	169.69	APR. 10	170.80	JUNE 30	172.80	SEP. 25	172.57
JAN. 15	170.81	APR. 15	169.10	JULY 5	171.59	SEP. 27	173.86J
JAN. 20	169.57	APR. 20	170.49	JULY 10	172.27	SEP. 30	172.74
JAN. 25	170.51						

311213093322801 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 NGVD.

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. 16, 1977	13.48	FEB. 8, 1978	12.40	MAY 19, 1978	13.47	AUG. 7, 1978	13.18
DEC. 21	13.81	MAR. 27	13.22	JULY 7	13.27	SEP. 22	12.80

311213093322802 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 NGVD.

HIGHEST WATER LEVEL 31.40 ABOVE LSD, MAY 25, 1976,

LOWEST WATER LEVEL 28.20 ABOVE LSD, FEB. 9, 1978.

RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1977 +	28.80	MAR. 27, 1978 +	28.90	JULY 7, 1978 +	28.40	SEP. 22, 1978 +	28.80
FEB. 9, 1978 +	28.20	MAY 19	29.20	AUG. 10	28.70		

311411093323601 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 NGVD.

HIGHEST WATER LEVEL 34.61 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. 16, 1977	40.28	FEB. 8, 1978	37.50	MAY 19, 1978	38.85	AUG. 7, 1978	38.53
DEC. 21	40.53	MAR. 27	37.64	JULY 7	38.78	SEP. 22	39.98

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 NGVD.
 HIGHEST WATER LEVEL 112.08 BELOW LSD, NOV. 21, 1969.
 LOWEST WATER LEVEL 128.40 BELOW LSD, SEP. 22, 1978.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	127.54	FEB. 9, 1978	127.31	MAY 22, 1978	127.85	SEP. 22, 1978	128.40
DEC. 21	127.71	MAR. 30	127.49	JULY 7	128.11		

311544093002501 LOCAL WELL NUMBER: V-427

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 3N., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CATMOULA 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 NGVD.
 HIGHEST WATER LEVEL 157.59 BELOW LSD, MAY 2, 1968.
 LOWEST WATER LEVEL 168.04 BELOW LSD, SEP. 22, 1978.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	166.02	DEC. 23, 1977	166.99	MAR. 30, 1978	167.02	JULY 7, 1978	167.76
DEC. 21	166.12	FEB. 9, 1978	167.07	MAY 22	167.53	SEP. 22	168.04

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 NGVD.
 HIGHEST WATER LEVEL 100.97 BELOW LSD, MAY 2, 1968.
 LOWEST WATER LEVEL 111.59 BELOW LSD, JULY 7, 1978.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	110.27	FEB. 9, 1978	110.00	MAY 22, 1978	110.79	SEP. 22, 1978	111.30
DEC. 21	110.19	MAR. 30	110.02	JULY 7	111.59		

310029092583001 LOCAL WELL NUMBER: V-450

OWNER: U. S. GEOL. SURVEY. (SEC. 3, T. 1S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN TERRACE AQUIFER 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 NGVD.
 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. 17, 1977	12.78	MAR. 8, 1978	10.70				

305434092595201 LOCAL WELL NUMBER: V-451

OWNER: U. S. GEOL. SURVEY. (SEC. 5, T. 2S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN TERRACE 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 NGVD.
 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
MAR. 8, 1978	56.43						

GROUND-WATER LEVELS

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VERNON PARISH

305620092514501 LOCAL WELL NUMBER: V-452

OWNER: U. S. GEOL. SURVEY. (SEC. 27, T. 15., R. 5W.) DRILLED OBSERVATION WATER-TABLE WELL IN TERRACE 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 NGVD.
 HIGHEST WATER LEVEL 20.72 BELOW LSD, MAR. 2, 1976,
 LOWEST WATER LEVEL 23.99 BELOW LSD, NOV. 17, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1977	23.99	MAR. 8, 1978	22.72				

WEBSTER PARISH

325752093271801 LOCAL WELL NUMBER: WB-27

OWNER: INTERNATIONAL PAPER CO. (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 NGVD.
 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. 5, 1977	62.06	DEC. 10, 1977	60.84	MAY 31, 1978	62.55	AUG. 5, 1978	65.48
OCT. 10	62.00	FEB. 16, 1978	61.21H	JUNE 5	62.72	AUG. 10	65.66
OCT. 15	62.12	MAR. 3	61.28H	JUNE 10	62.66	AUG. 15	66.27
OCT. 20	62.18	MAR. 5	61.49	JUNE 15	62.48	AUG. 20	66.38
OCT. 25	62.22	MAR. 10	61.77	JUNE 20	62.48	AUG. 25	66.55
OCT. 31	62.11	APR. 25	61.90H	JUNE 25	63.07	AUG. 31	66.01
NOV. 5	62.15	APR. 30	61.85	JUNE 30	63.50	SEP. 5	65.68
NOV. 7	62.66J	MAY 4	61.74J	JULY 5	63.88	SEP. 10	65.19
NOV. 10	62.08	MAY 5	61.84	JULY 10	64.40	SEP. 12	65.02J
NOV. 15	62.17	MAY 10	62.02	JULY 15	65.23	SEP. 15	64.77
NOV. 20	61.45	MAY 15	62.38	JULY 19	64.24H	SEP. 20	64.55
NOV. 25	61.19	MAY 20	62.31	JULY 20	65.54	SEP. 23	65.01J
NOV. 30	60.75	MAY 24	62.25H	JULY 25	65.77	SEP. 25	65.54
DEC. 1	60.75H	MAY 25	62.27	JULY 31	65.59	SEP. 30	64.18
DEC. 5	60.67						

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 210.00 FT NGVD.
 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
DEC. 21, 1977	33.56	MAR. 3, 1978	33.70	JUNE 15, 1978	33.79	SEP. 11, 1978	34.72

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 NGVD.
 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
MAR. 16, 1978	175.69						

See footnotes at end of table.

LOUISIANA - WINN PARISH

WEBSTER PARISH

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 NGVD.
 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
MAR. 16, 1978	260.66						

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 NGVD.
 HIGHEST WATER LEVEL 106.99 BELOW LSD, JUNE 4, 1976.
 LOWEST WATER LEVEL 110.80 BELOW LSD, SEP. 7, 1978.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 13, 1977	108.94	MAR. 20, 1978	108.98	JUNE 12, 1978	109.20	SEP. 7, 1978	110.80

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 NGVD.
 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. 3, 1977	91.20	FEB. 16, 1978	90.48	APR. 24, 1978	91.32	SEP. 7, 1978	92.59
DEC. 15	90.82	MAR. 20	90.82	JUNE 12	90.52		

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 NGVD.
 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. 7, 1978	31.46	SEP. 22	31.95				

WINN PARISH

315524092381301 LOCAL WELL NUMBER: W-3

OWNER: CITY OF WINNFELD. (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 NGVD.
 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
DEC. 14, 1977	17.96	MAR. 8, 1978	17.40	JUNE 20, 1978	17.72	SEP. 11, 1978	18.60

GROUND-WATER LEVELS

399

WINN PARISH

315525092375601 LOCAL WELL NUMBER: W-16

OWNER: CITY OF WINNFELD. (SEC. 24, T. 11N., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 8 IN, DEPTH 583 FT, SCREENED 553-583. MP TOP OF CASING, AT LSD.
 LSD 135.00 FT NGVD.
 HIGHEST WATER LEVEL 48.00 BELOW LSD, MAY 27, 1952,
 LOWEST WATER LEVEL 85.05 BELOW LSD, JUNE 20, 1970.
 RECORDS AVAILABLE 1952, 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 7, 1977	73.97	JAN. 23, 1978	78.60	APR. 11, 1978	75.18	SEP. 11, 1978	79.46
DEC. 14	75.36	MAR. 8	76.63	JUNE 20	77.24		

315450092310102 LOCAL WELL NUMBER: W-144B

OWNER: LA. OFF. 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 NGVD.
 HIGHEST WATER LEVEL 37.07 BELOW LSD, MAR. 8, 1978,
 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
DEC. 14, 1977	37.85	APR. 20, 1978	37.20	JUNE 20, 1978	37.57	SEP. 11, 1978	38.31
MAR. 8, 1978	37.07						

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 825 FT, SCREENED 819-829. MP TOP OF CASING, 3.0 FT ABOVE LSD.
 LSD 257.00 FT NGVD.
 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. 7, 1977	197.51	JAN. 23, 1978	197.18	APR. 11, 1978	197.05	SEP. 11, 1978	197.85
DEC. 14	197.47	MAR. 8	196.98	JUNE 20	197.22		

+ 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.



QUALITY OF GROUND WATER
CHEMICAL ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

LOCAL IDENTIFIER				STATION NUMBER	GEOLOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
AVOUELLES PARISH												
AV- 399	1S	6E	36	305530091485501	121BLCK	544	77-11-16	1215	647	7.5	21.5	10
AV- 400	1S	6E	24	305726091484801	121BLCK	504	78-01-06	1400	773	8.2	22.5	5
BIENVILLE PARISH												
BI- 68	17N	7W	29	322540093064001	124SPRT	180	78-05-23	1200	58	6.0	20.0	80
BI- 100	14N	5W	6	321402092545701	124SPRT	90	78-05-11	1400	153	6.4	19.5	1
BI- 186	14N	5W	22	321101092515203	124SPRT	216	78-05-11	0830	151	6.9	20.5	6
BI- 187	14N	5W	8	321245092535401	124SPRT	56	78-05-11	0930	33	6.3	20.5	0
BI- 192	15N	6W	29	321538093001602	124SPRT	153	78-05-10	1500	33	6.2	21.0	1
BI- 193	15N	5W	33	321422092530801	124SPRT	238	78-05-10	1300	37	6.4	20.0	1
BOSSIER PARISH												
BO- 364	17N	11W	34	322527093293201	124WLCX	240	77-10-14	1200	654	8.4	22.0	0
BO- 365	17N	11W	34	322526093293001	112UPTC	80	77-10-14	--	471	7.5	--	0
BO- 389	22N	14W	13	325406093455601	124CRKZ	309	78-06-05	1300	760	8.0	20.5	5
CATAHOULA PARISH												
CT- 112A	04N	06E	17	311946091530702	122WMCK	280	78-05-23	1300	1470	7.1	20.0	0
CT- 112B	4N	6E	17	311946091530701	122WMCK	355	78-05-17	1320	5150	7.0	21.0	0
CT- 113A	4N	5E	12	311950091545102	122WMCK	226	78-06-15	1300	756	7.1	20.0	5
CT- 113B	4N	5E	12	311950091545101	122WMCK	330	78-06-09	1200	659	6.5	20.0	0
CT- 114	4N	6E	17	311947091531001	112MRVA	160	78-05-17	1100	652	7.0	--	5
DE SOTO PARISH												
DS- 443	11N	12W	37	315345093355801	124WLCX	304	77-10-31	1530	162	--	--	20
DS- 444	11N	12W	20	315545093372601	124WLCX	241	77-11-07	1150	560	--	--	10
DS- 445	11N	12W	22	315521093343801	124WLCX	140	77-12-08	1525	427	--	--	0
DS- 446	11N	12W	15	315629093352601	124WLCX	220	77-11-28	1100	103	--	--	10
DS- 448	11N	11W	28	315459093302001	124WLCX	230	77-12-05	1200	463	--	--	0
DS- 449	10N	11W	2	315318093274201	124WLCX	240	77-12-14	1500	791	--	--	5
DS- 450	11N	11W	19	315509093320901	124WLCX	262	78-02-10	1030	625	--	--	100
DS- 457	11N	12W	37	315345093355601	124WLCX	160	77-10-28	1500	620	--	--	5
DS- 458	14N	16W	34	320958093592401	124WLCX	304	78-04-17	1340	562	--	22.0	0
DS- 459	13N	15W	18	320650093564101	124WLCX	337	78-05-01	1400	779	--	22.0	40
FRANKLIN PARISH												
FR- 48	14N	7E	26	321006091431801	112MRVA	80	77-12-07	1200	--	--	--	--
						80	78-05-26	--	774	--	--	--
FR- 49	14N	7E	26	321008091431701	112MRVA	80	77-12-07	1200	--	--	--	--
						80	78-05-26	--	1110	--	--	--
FR- 347	14N	7E	26	321014091431701	112MRVA	82	77-12-07	1200	--	--	20.5	--
						82	78-05-26	--	691	--	--	--
GRANT PARISH												
G- 403	7N	1W	35	313228092261001	112BNTL	38	78-06-08	1630	--	4.0	19.5	--

Geologic unit (aquifer):

112BNTL-Bentley Formation, Pleistocene age.
112MRVA-Mississippi River alluvial aquifer, Pleistocene age.
112PRIR-Prairie Formation, Pleistocene age.

LOCAL IDENTIFIER					DATE OF SAMPLE	HARDNESS, DIS-SOLVED AS (MG/L CAC03)	HARDNESS, NONCARBONATE, DIS-SOLVED (MG/L CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HC03)	CARBONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
AVOYELLES PARISH--Continued														
AV- 399	1S	6E	36	77-11-16	27	0	7.7	1.9	140	2.5	276	0	13	
AV- 400	1S	6E	24	78-01-06	27	0	10	.5	160	3.1	257	0	.0	
BIENVILLE PARISH--Continued														
BI- 68	17N	7W	29	78-05-23	12	0	2.8	1.2	8.0	2.5	29	0	2.0	
BI- 100	14N	5W	6	78-05-11	0	0	.0	.0	36	.7	83	0	6.1	
BI- 186	14N	5W	22	78-05-11	9	0	3.1	.3	32	1.8	84	0	3.3	
BI- 187	14N	5W	8	78-05-11	7	5	2.3	.3	2.2	1.2	2	0	.8	
BI- 192	15N	6W	29	78-05-10	9	6	2.0	1.0	2.0	1.3	4	0	.5	
BI- 193	15N	5W	33	78-05-10	6	0	.3	.8	4.0	2.2	9	0	5.2	
BOSSIER PARISH--Continued														
BO- 364	17N	11W	34	77-10-14	8	0	2.1	.7	150	2.4	321	4	1.0	
BO- 365	17N	11W	34	77-10-14	180	0	47	15	28	1.3	236	0	3.8	
BO- 389	22N	14W	13	78-06-05	34	0	11	1.6	170	6.4	393	0	3.8	
CATAHOULA PARISH--Continued														
CT- 112A	04N	06E	17	78-05-23	120	0	35	7.0	280	8.9	408	0	.2	
CT- 112B	4N	6E	17	78-05-17	320	0	100	17	980	20	440	0	2.8	
CT- 113A	4N	5E	12	78-06-15	240	0	92	2.7	75	6.8	444	0	.2	
CT- 113B	4N	5E	12	78-06-09	300	0	87	20	19	5.2	395	0	1.6	
CT- 114	4N	6E	17	78-05-17	290	8	72	28	24	3.8	348	0	34	
DE SOTO PARISH--Continued														
DS- 443	11N	12W	37	77-10-31	23	0	5.5	2.3	24	2.9	58	0	15	
DS- 444	11N	12W	20	77-11-07	110	68	22	12	64	5.4	46	0	130	
DS- 445	11N	12W	22	77-12-08	160	0	41	13	30	4.0	240	0	16	
DS- 446	11N	12W	15	77-11-28	15	0	3.7	1.4	13	2.2	27	0	16	
DS- 448	11N	11W	28	77-12-05	24	0	5.7	2.4	95	2.2	227	0	33	
DS- 449	10N	11W	2	77-12-14	2	0	.7	.1	190	1.9	382	7	33	
DS- 450	11N	11W	19	78-02-10	2	0	.6	.1	150	2.4	355	3	1.8	
DS- 457	11N	12W	37	77-10-28	70	0	20	4.9	110	6.1	277	0	49	
DS- 458	14N	16W	34	78-04-17	140	0	47	5.5	68	3.8	303	0	2.8	
DS- 459	13N	15W	18	78-05-01	1	0	.3	.1	190	1.6	386	7	.6	
FRANKLIN PARISH--Continued														
FR- 48	14N	7E	26	77-12-07	210	--	--	--	--	--	--	--	--	43
				78-05-26	240	--	--	--	--	--	--	--	--	--
FR- 49	14N	7E	26	77-12-07	270	--	--	--	--	--	--	--	--	23
				78-05-26	280	--	--	--	--	--	--	--	--	--
FR- 347	14N	7E	26	77-12-07	250	--	--	--	--	--	--	--	--	15
				78-05-26	230	--	--	--	--	--	--	--	--	--
GRANT PARISH--Continued														
G- 403	7N	1W	35	78-06-08	10	3	2.5	.0	2.2	1.1	8	--	--	2.8

Geologic unit (aquifer):--Continued

- 112RRVA-Red River alluvial aquifer, Pleistocene age.
- 112UPTC-Upland terrace deposits, Pleistocene age.
- 112WLLN-Williana Formation, Pleistocene age.
- 121BLCK-Blounts Creek Member of Fleming Formation, Pliocene age.
- 122CRNB-Carnahan Bayou Member of Fleming Formation, Miocene age.

LOCAL IDENTIFIER					DATE OF SAMPLE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS NO3)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
AVOYELLES PARISH--Continued														
AV- 399	1S	6E	36	77-11-16	70		.3	23	398	396	1.1	--	100	4
AV- 400	1S	6E	24	78-01-06	110		.5	15	429	427	.53	--	50	80
BIENVILLE PARISH--Continued														
BI- 68	17N	7W	29	78-05-23	4.4		.1	43	68	96	--	.01	18000	90
BI- 100	14N	5W	6	78-05-11	3.0		.0	27	102	114	.63	.01	60	5
BI- 186	14N	5W	22	78-05-11	4.4		.1	59	133	146	--	.00	670	10
BI- 187	14N	5W	8	78-05-11	4.0		.0	12	39	30	6.2	--	20	10
BI- 192	15N	6W	29	78-05-10	5.0		.0	11	22	25	--	2.2	80	10
BI- 193	15N	5W	33	78-05-10	3.0		.0	26	3	50	.52	.04	3900	30
BOSSIER PARISH--Continued														
BO- 364	17N	11W	34	77-10-14	41		.0	12	394	372	.80	--	0	20
BO- 365	17N	11W	34	77-10-14	28		.2	34	311	280	7.0	--	0	0
BO- 389	22N	14W	13	78-06-05	50		.7	12	451	450	.45	--	60	20
CATAHOULA PARISH--Continued														
CT- 112A	04N	06E	17	78-05-23	270		.4	40	848	843	.25	--	560	140
CT- 112B	4N	6E	17	78-05-17	1500		.3	34	2890	2870	.45	--	1300	360
CT- 113A	4N	5E	12	78-06-15	28		.1	42	468	467	.33	--	1000	290
CT- 113B	4N	5E	12	78-06-09	14		.4	46	403	396	.43	--	7800	400
CT- 114	4N	6E	17	78-05-17	19		.2	44	425	416	2.1	--	16000	1500
DE SOTO PARISH--Continued														
DS- 443	11N	12W	37	77-10-31	13		.1	35	144	130	.19	--	2600	7
DS- 444	11N	12W	20	77-11-07	50		.1	43	384	366	.20	--	15000	510
DS- 445	11N	12W	22	77-12-08	14		.0	27	263	263	.00	--	20	90
DS- 446	11N	12W	15	77-11-28	7.0		.1	35	106	92	.60	--	1200	40
DS- 448	11N	11W	28	77-12-05	16		.0	21	287	287	.00	--	60	2
DS- 449	10N	11W	2	77-12-14	34		.2	14	474	469	.12	--	40	20
DS- 450	11N	11W	19	78-02-10	24		.6	16	423	374	.90	--	440	50
DS- 457	11N	12W	37	77-10-28	23		.1	5.6	372	363	8.2	--	50	5
DS- 458	14N	16W	34	78-04-17	28		.2	23	330	328	.28	--	190	50
DS- 459	13N	15W	18	78-05-01	51		.5	11	457	452	.76	--	90	20
FRANKLIN PARISH--Continued														
FR- 48	14N	7E	26	77-12-07	79		--	--	--	--	--	--	--	--
				78-05-26	85		--	--	--	--	--	--	--	--
FR- 49	14N	7E	26	77-12-07	210		--	--	--	--	--	--	--	--
				78-05-26	220		--	--	--	--	--	--	--	--
FR- 347	14N	7E	26	77-12-07	74		--	--	--	--	--	--	--	--
				78-05-26	81		--	--	--	--	--	--	--	--
GRANT PARISH--Continued														
G- 403	7N	1W	35	78-06-08	3.1		.1	14	16	32	--	.44	0	0

Geologic unit (aquifer):--Continued

122WCK-Williamson Creek Member of Fleming Formation, Miocene age.
 124CRZ-Carrizo Sand, Eocene age.
 124SPRT-Sparta Sand, Eocene age.
 124WLCX-Wilcox Group, Eocene age.

LOCAL IDENT- I- FIER				STATION	NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
LA SALLE PARISH													
LA- 129	8N	3E	15	314047092092001	112WLLN	136	78-08-08	1300		180	6.0	20.5	0
LA- 130	8N	3E	10	314101092090301	112WLLN	143	78-08-08	1400		93	6.4	20.0	0
LA- 225	7N	3E	22	313351092090001	112PRIR	42	78-04-04	1130		4310	5.0	--	
RAPIDES PARISH													
R- 987	3N	1W	18	311349092293501	112RRVA	108	78-03-16	1105		1490	6.9	--	0
R- 988	3N	1W	18	311349092293502	112RRVA	64	78-03-16	1145		1810	7.1	--	0
R- 989	3N	1W	18	311352092293201	112RRVA	97	78-03-16	1445		1520	6.9	--	0
R- 990	3N	1W	18	311352092293202	112RRVA	43	78-03-16	1550		4670	7.0	--	5
R- 991	3N	1W	18	311351092294001	112RRVA	76	78-03-16	1015		1540	7.0	--	0
R- 992	3N	1W	18	311351092294002	112RRVA	108	78-03-16	1040		1440	7.0	--	0
R-1161	5N	2E	23	312355092181201	122CRNB	650	78-04-28	1350		771	7.8	24.0	0
R-1166A	5N	2E	24	312318092173602	122CRNB	150	78-05-25	1200		696	6.6	21.0	0
R-1166B	5N	2E	24	312318092173601	122CRNB	620	78-05-16	1400		780	8.1	23.0	5
RED RIVER PARISH													
RR- 267A	12N	9W	26	315950093162102	124WLCX	120	78-07-26	1500		300	7.0	--	5
RR- 267B	12N	9W	26	315950093162101	124WLCX	201	78-07-11	1100		372	7.6	20.5	5
RR- 268	12N	9W	26	315946093162201	112UPTC	49	78-08-01	1200		127	6.4	--	0
RR- 269	12N	9W	27	315957093171401	124WLCX	210	78-08-07	1300		438	7.9	21.0	5
RR- 270	12N	9W	32	315854093183101	112UPTC	60	78-08-07	1600		126	6.2	--	0
RR- 271	12N	9W	28	315931093174601	124WLCX	160	78-08-18	1300		434	8.1	20.5	0
RR- 273A	12N	9W	22	320036093172502	112UPTC	65	78-09-22	1200		98	5.5	--	0
RR- 273B	12N	9W	22	320036093172501	124WLCX	248	78-09-18	--		966	8.2	--	75
RICHLAND PARISH													
RI- 110	17N	9E	24	322654091294101	112MRVA	67 67	77-12-07 78-05-26	1500 --		-- 1160	-- --	-- --	-- --
RI- 111	17N	9E	23	322634091303901	112MRVA	67 67	77-12-07 78-05-26	1500 --		-- 1500	-- --	-- --	-- --
RI- 112	17N	9E	24	322623091294901	112MRVA	67	78-05-26	1520		3050	--	--	--
RI- 113	17N	9E	24	322616091294101	112MRVA	67 67	77-12-07 78-05-26	1500 --		-- 1950	-- --	-- --	-- --
RI- 114	17N	9E	24	322636091295702	112MRVA	66 66	77-12-07 78-05-26	1500 1030		-- 3940	-- --	-- --	-- --
RI- 124	17N	9E	25	322605091301101	112MRVA	84 84	77-12-07 78-05-26	-- 0930		-- 1220	-- --	-- --	-- --
SABINE PARISH													
SA- 462	6N	13W	36	312748093393801	124WLCX	178	78-02-21	1430		1060	--	--	0
SA- 465	6N	12W	39	312725093325301	124WLCX	80	78-03-10	1100		187	--	--	5
WEBSTER PARISH													
WB- 314	17N	8W	5	322950093121301	124SPRT	230	78-05-24	1135		41	5.7	19.5	0
WB- 315	17N	8W	5	322949093123601	124SPRT	190	78-05-24	1030		27	5.9	19.5	1
WB- 361	17N	9W	12	322852093141401	124CRRZ	454	78-05-24	0915		479	8.2	22.5	7
WB- 376	17N	9W	14	322737093154801	124SPRT	140	78-05-24	1515		79	5.8	20.0	1
WINN PARISH													
W- 144B	11N	1W	19	315450092310102	124SPRT	550	78-04-20	--		1560	--	--	150

LOCAL IDENTIFIER				DATE OF SAMPLE	HARDNESS, DIS-SOLVED (MG/L AS CaCO3)	HARDNESS, NONCARBONATE, DIS-SOLVED (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	
LA SALLE PARISH--Continued														
LA- 129	8N	3E	15	78-08-08	30	0	8.8	1.9	24	1.5	58	0	5.2	
LA- 130	8N	3E	10	78-08-08	16	0	4.9	.9	11	1.1	29	0	4.6	
LA- 225	7N	3E	22	78-04-04	170	170	36	18	740	.6	0	0	2.0	
RAPIDES PARISH--Continued														
R- 987	3N	1W	18	78-03-16	640	13	--	--	--	--	764	0	93	
R- 988	3N	1W	18	78-03-16	900	190	--	--	--	--	868	0	150	
R- 989	3N	1W	18	78-03-16	660	0	--	--	--	--	900	0	64	
R- 990	3N	1W	18	78-03-16	2300	130	510	240	300	4.2	2620	0	38	
R- 991	3N	1W	18	78-03-16	710	60	--	--	--	--	792	0	99	
R- 992	3N	1W	18	78-03-16	620	0	--	--	--	--	900	0	46	
R-1161	5N	2E	23	78-04-28	2	0	.5	.2	180	3.3	305	0	3.2	
R-1166A	5N	2E	24	78-05-25	21	0	7.5	.6	130	4.6	134	0	45	
R-1166B	5N	2E	24	78-05-16	0	0	.0	.0	180	3.2	281	0	.6	
RED RIVER PARISH--Continued														
RR- 267A	12N	9W	26	78-07-26	110	0	36	4.4	21	2.5	174	0	3.4	
RR- 267B	12N	9W	26	78-07-11	12	0	3.8	6.0	81	2.2	210	0	.4	
RR- 268	12N	9W	26	78-08-01	17	1	4.8	1.2	15	2.2	13	0	2.2	
RR- 269	12N	9W	27	78-08-07	5	0	1.3	.4	100	1.2	256	0	.2	
RR- 270	12N	9W	32	78-08-07	40	0	12	2.4	9.7	.6	70	0	1.2	
RR- 271	12N	9W	28	78-08-18	10	0	3.0	.6	100	1.5	254	0	.2	
RR- 273A	12N	9W	22	78-09-22	18	0	4.5	1.6	11	1.5	22	0	2.0	
RR- 273B	12N	9W	22	78-09-18	20	0	6.2	1.1	220	2.4	438	10	.0	
RICHLAND PARISH--Continued														
RI- 110	17N	9E	24	77-12-07	640	--	--	--	--	--	--	--	--	13
				78-05-26	420	--	--	--	--	--	--	--	--	
RI- 111	17N	9E	23	77-12-07	450	--	--	--	--	--	--	--	35	
				78-05-26	410	--	--	--	--	--	--	--	--	
RI- 112	17N	9E	24	78-05-26	650	--	--	--	--	--	--	--	--	
RI- 113	17N	9E	24	77-12-07	490	--	--	--	--	--	--	--	14	
				78-05-26	680	--	--	--	--	--	--	--		
RI- 114	17N	9E	24	77-12-07	430	--	--	--	--	--	--	--	9.2	
				78-05-26	610	--	--	--	--	--	--	--		
RI- 124	17N	9E	25	77-12-07	460	--	--	--	--	--	--	--	25	
				78-05-26	480	--	--	--	--	--	--	--		
SABINE PARISH--Continued														
SA- 462	6N	13W	36	78-02-21	180	0	40	20	170	13	445	3	70	
SA- 465	6N	12W	39	78-03-10	38	0	15	.1	20	6.0	50	0	9.8	
WEBSTER PARISH--Continued														
WB- 314	17N	8W	5	78-05-24	6	0	2.0	.2	2.7	1.5	8	0	1.6	
WB- 315	17N	8W	5	78-05-24	6	2	2.0	.2	2.6	1.1	5	0	3.3	
WB- 361	17N	9W	12	78-05-24	2	0	.5	.3	120	1.4	300	1	2.5	
WB- 376	17N	9W	14	78-05-24	14	2	3.0	1.5	9.8	2.2	14	0	5.6	
WINN PARISH--Continued														
W- 144B	11N	1W	19	78-04-20	4	0	1.5	.1	390	3.3	713	20	.6	

LOCAL IDENT- 1- FIER					DATE OF SAMPLE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE TOTAL (MG/L AS NO3)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
LA SALLE PARISH--Continued														
LA- 129	8N	3E	15	78-08-08	22		.1	50	144	143	.63	--	50	20
LA- 130	8N	3E	10	78-08-08	8.0		.1	44	91	90	1.9	--	30	20
LA- 225	7N	3E	22	78-04-04	1300		.0	21	2230	2160	1.3	--	35000	5100
RAPIDES PARISH--Continued														
R- 987	3N	1W	18	78-03-16	120	--	--	--	--	--	--	--	13000	1200
R- 988	3N	1W	18	78-03-16	160	--	--	--	--	--	--	--	6100	6300
R- 989	3N	1W	18	78-03-16	110	--	--	--	--	--	--	--	9800	2200
R- 990	3N	1W	18	78-03-16	500		.1	29	3010	2930	.28	--	13000	8000
R- 991	3N	1W	18	78-03-16	140	--	--	--	--	--	--	--	11000	4300
R- 992	3N	1W	18	78-03-16	86	--	--	--	--	--	--	--	11000	1100
R-1161	5N	2E	23	78-04-28	91		1.3	46	478	476	.40	--	120	20
R-1166A	5N	2E	24	78-05-25	110		.2	40	409	404	.20	--	440	95
R-1166B	5N	2E	24	78-05-16	110		1.6	48	484	482	.48	--	50	20
RED RIVER PARISH--Continued														
RR- 267A	12N	9W	26	78-07-26	6.2		.1	30	190	192	.54	--	2100	290
RR- 267B	12N	9W	26	78-07-11	14		.2	17	226	228	.63	--	40	20
RR- 268	12N	9W	26	78-08-01	25		.0	34	102	94	4.1	--	20	20
RR- 269	12N	9W	27	78-08-07	14		.3	11	262	255	.34	--	80	20
RR- 270	12N	9W	32	78-08-07	1.3		.1	41	104	103	.80	--	20	10
RR- 271	12N	9W	28	78-08-18	12		.4	11	258	254	.22	--	60	20
RR- 273A	12N	9W	22	78-09-22	14		.1	40	80	89	2.3	--	190	50
RR- 273B	12N	9W	22	78-09-18	85		1.2	12	562	554	.32	--	50	30
RICHLAND PARISH--Continued														
RI- 110	17N	9E	24	77-12-07	150	--	--	--	--	--	--	--	--	--
				78-05-26	150	--	--	--	--	--	--	--	--	--
RI- 111	17N	9E	23	77-12-07	200	--	--	--	--	--	--	--	--	--
				78-05-26	240	--	--	--	--	--	--	--	--	--
RI- 112	17N	9E	24	78-05-26	800	--	--	--	--	--	--	--	--	--
RI- 113	17N	9E	24	77-12-07	380	--	--	--	--	--	--	--	--	--
				78-05-26	420	--	--	--	--	--	--	--	--	--
RI- 114	17N	9E	24	77-12-07	1000	--	--	--	--	--	--	--	--	--
				78-05-26	1100	--	--	--	--	--	--	--	--	--
RI- 124	17N	9E	25	77-12-07	140	--	--	--	--	--	--	--	--	--
				78-05-26	160	--	--	--	--	--	--	--	--	--
SABINE PARISH--Continued														
SA- 462	6N	13W	36	78-02-21	72		.1	15	629	622	.05	--	10	130
SA- 465	6N	12W	39	78-03-10	24		.1	24	125	124	.00	--	270	25
WEBSTER PARISH--Continued														
WB- 314	17N	8W	5	78-05-24	2.0		.0	16	45	33	3.3	--	20	10
WB- 315	17N	8W	5	78-05-24	2.4		.0	15	22	32	--	.72	100	0
WB- 361	17N	9W	12	78-05-24	4.7		.7	12	288	291	--	.38	90	0
WB- 376	17N	9W	14	78-05-24	9.7		.1	36	70	76	1.4	.32	130	5
WINN PARISH--Continued														
W- 144B	11N	1W	19	78-04-20	140		2.0	12	944	922	1.8	--	180	70

QUALITY OF GROUND WATER

407

RADIO-CHEMICAL ANALYSES, OCTOBER 1977 TO SEPTEMBER 1978

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	CESIUM 137 DIS- SOLVED (PCI/L)
BIENVILLE PARISH							
BI- 68	17N	7W 29	322540093064001	78-05-23	<1.4	3.0	2.7 <1.0
BI- 100	14N	5W 6	321402092545701	78-05-11	<1.3	.8	.7 <1.0
BI- 186	14N	5W 22	321101092515203	78-05-11	<1.9	1.5	1.4 <1.0
BI- 192	15N	6W 29	321538093001602	78-05-10	1.2	1.6	1.5 <1.0
BI- 193	15N	5W 33	321422092530801	78-05-10	<.7	2.4	2.3 <1.0
WEBSTER PARISH							
WB- 315	17N	8W 5	322949093123601	78-05-24	.5	1.2	1.2 <1.0
WB- 361	17N	9W 12	322852093141401	78-05-24	<4.4	1.8	1.7 <1.0
WB- 376	17N	9W 14	322737093154801	78-05-24	<1.1	2.1	1.9 <1.0

LOCAL IDENT- I- FIER	DATE OF SAMPLE	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	STRON- TIUM 90 DIS- SOLVED (PCI/L)	TRITIUM TOTAL (PCI/L)
BIENVILLE PARISH--Continued					
BI- 68	17N 7W 29	78-05-23	.12	<.4	.4 <270
BI- 100	14N 5W 6	78-05-11	.13	.6	<.4 <270
BI- 186	14N 5W 22	78-05-11	.13	.6	<.4 <270
BI- 192	15N 6W 29	78-05-10	.27	<.4	<.4 <270
BI- 193	15N 5W 33	78-05-10	.20	.5	<.4 <270
WEBSTER PARISH--Continued					
WB- 315	17N 8W 5	78-05-24	.15	<.4	<.4 <270
WB- 361	17N 9W 12	78-05-24	.15	<.4	<.4 <270
WB- 376	17N 9W 14	78-05-24	.24	<.4	<.4 <270

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

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons



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