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Water Resources Data for Arkansas

Water Year 1976

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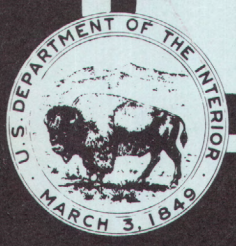

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AR-76-1

Prepared in cooperation with the Arkansas Geological Commission and with other State and Federal agencies

CALENDAR FOR WATER YEAR 1976

1975

OCTOBER

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1976

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Water Resources Data for Arkansas

Water Year 1976



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AR-76-1

Prepared in cooperation with the Arkansas Geological Commission and with other State and Federal agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

For information on the water program in Arkansas write to
District Chief, Water Resources Division
U.S. Geological Survey
2301 Federal Office Building
Little Rock, Arkansas 72201

1977

PREFACE

This report was prepared by personnel of the Arkansas district of the Water Resources Division of the U.S. Geological Survey under the supervision of R. T. Sniegocki, district chief, and Alfred Clebsch, Jr., regional hydrologist, Central Region. It was done in cooperation with the State of Arkansas and with other agencies.

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

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Water resources data for the 1976 water year for Arkansas consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels of wells. This report contains discharge records for 70 gaging stations; stage only records for 1 gaging station; stage and contents for 16 lakes and reservoirs; water quality for 132 stations, 33 partial-record flow stations, and 8 lakes; and water levels for 76 observation wells. Also included are 119 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Arkansas.

17. Key Words and Document Analysis. 17a. Descriptors

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17b. Identifiers/Open-Ended Terms

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WATER RESOURCES DATA FOR ARKANSAS, 1976

INTRODUCTION

Water resources data for the 1976 water year for Arkansas consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water-levels of wells. This report contains discharge records for 70 gaging stations; stage and contents for 16 lakes and reservoirs; water quality for 132 gaging stations, 33 partial-record stations, and 8 lakes; and water levels for 76 observation wells. Also included are data for 119 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Arkansas.

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, 604 South Pickett Street, Arlington, VA. 22304.

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

AR-76-1." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA. 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Arkansas have had cooperative agreements for the systematic collection of surface-water records since 1927, and for the collection of ground-water and water-quality records since 1946. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Arkansas Geological Commission, Norman F. Williams, State geologist.

Arkansas Department of Pollution Control and Ecology, S. Ladd Davies, director.

Arkansas State Highway Department, Henry C. Gray, director.

Arkansas Division of Soil and Water Resources, John P. Saxton, director.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for some of the gaging stations and water-quality stations published in this report.

The following organizations aided in collecting records:

Arkansas Game and Fish Commission; Arkansas Power and Light Company; and National Weather Service, NOAA, U.S. Department of Commerce.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

Streamflow was below average for the 1976 water year. Deficient rainfall over most of the State resulted in below-average runoff during the year. However, storms over most of the State in March and June caused moderate rises on some streams. A local storm on June 18 caused severe flooding in the Texarkana area in the extreme southwestern part of the State.

Ground-water levels in the Quaternary deposits in the heavy rice-growing area of east-central Arkansas (Grand Prairie) declined slightly from the previous year; however, increased ground-water withdrawals for rice irrigation in the Cache and L'Anguille River basins in northeast Arkansas caused water-level declines of one or more feet in the Quaternary deposits.

Water levels in the Sparta Sand of Tertiary age declined about three feet in the Grand Prairie, owing to withdrawals for rice irrigation; elsewhere in the State, water levels in the Sparta Sand and other aquifers showed slight change from the previous year.

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 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.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

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

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

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

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 ± 1.0°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 M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

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

Base flow is fair-weather flow sustained by ground-water discharge.

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

Benthic invertebrates are animals inhabiting the bottom of an aquatic environment. They include several types of organisms, such as insect larvae and nymphs, snails, clams, and crayfish. They are frequently used as indicators of environmental quality, because many have restricted mobility during their aquatic life phase, as well as a relatively long lifespan, which allows for response to prevailing and changing water-quality conditions. Many benthic organisms inhabit specific types of environments which, if changed, result in changes in the composition of the benthic community.

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 microorganisms, 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 grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

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 mass 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.

Biomass pigment ratio provides a simple measurement of the periphyton community to provide information as to whether the aquatic system is primarily autotrophic (producers of organic matter) or heterotrophic (consumers of organic matter). As organic load increases algae can be replaced by filamentous bacteria and other non-chlorophyllous producing organisms which result in an increase in the biomass to chlorophyll ratio. The ratio equals biomass (dry weight-ash weight) divided by chlorophyll a. Increasing ratio values would indicate a tendency toward a heterotrophic system.

Bottom material: See Bed material.

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

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

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

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

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

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

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

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

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

Cubic foot per second (FT^3/s, ft^3/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.

Dissolved oxygen (DO) The dissolved-oxygen content of water in equilibrium with air is a function of atmospheric pressure, and temperature and dissolved-solids content of the water. The ability of

water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant effect. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen content in water from some streams.

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

$$\overline{d} = - \sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

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 areas, 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 together with all tributary surface streams and bodies 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 ($CaCO_3$).

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Micrograms per gram (ug/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 liter (UG/L, ug/l) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, below. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, page 10.

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

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Flouride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

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

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

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

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 classiciation 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.	Sedimentation or sieve.
Gravel.....	2. - 64.0	Sieve.

Table 2.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*
(All values calculated to 3 significant figures)

Range of concentration, in 1,000 mg/l	Divide by	Range of concentration, in 1,000 mg/l	Divide by	Range of concentration, in 1,000 mg/l	Divide by	Range of concentration, in 1,000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

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 undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

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 2.22 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.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having

atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

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.

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

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

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

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

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

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

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range, in respect to sodium hazard, from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

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 lives.

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

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies 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.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification or organisms is based upon a hierarchial 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.....Limbata

Classification levels in this report will be indicated by a series of dots or absence of them. The preceding classification would appear as follows:

ARTHROPODA
.INSECTA
..EPHEMEROPTERA
...EPHEMERIDAE
....HEXAGENIA

The following is a list of common names of orders of benthic invertebrates used in this report.

AMPHIPODA (Scuds, Sideswimmers)
ANNELIDA (Aquatic Earthworms, Leeches)
COELENTERATA (Hydroids, Jellyfish)
COLEOPTERA (Beetles)
DECOPODA (Crayfish, Shrimp)
DIPTERA (Flies, Mosquitoes, Midges)
EPHEMEROPTERA (Mayflies)
GASTROPODA (Snails, Limpets)
HEMIPTERA (Bugs)
HYDRACARINA (Water mites)
ISOPODA (Aquatic Sow Bugs)
MEGALOPTERA (Alderflies, Dobsonflies, Fishflies)
ODONATA (Dragonflies, Damselflies)

PELECYPODA (Clams, Mussels)
PLECOPTERA (Stoneflies)
PODOCOPA (Seed Shrimp)
TRICHOPTERA (Caddisflies)
TRICLADIDA (Flatworms)

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per acre-foot indicates the dry 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 (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

Weighted average is used in this report to indicate discharge-weighted average values 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 REVISED RECORDS paragraph to refer 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

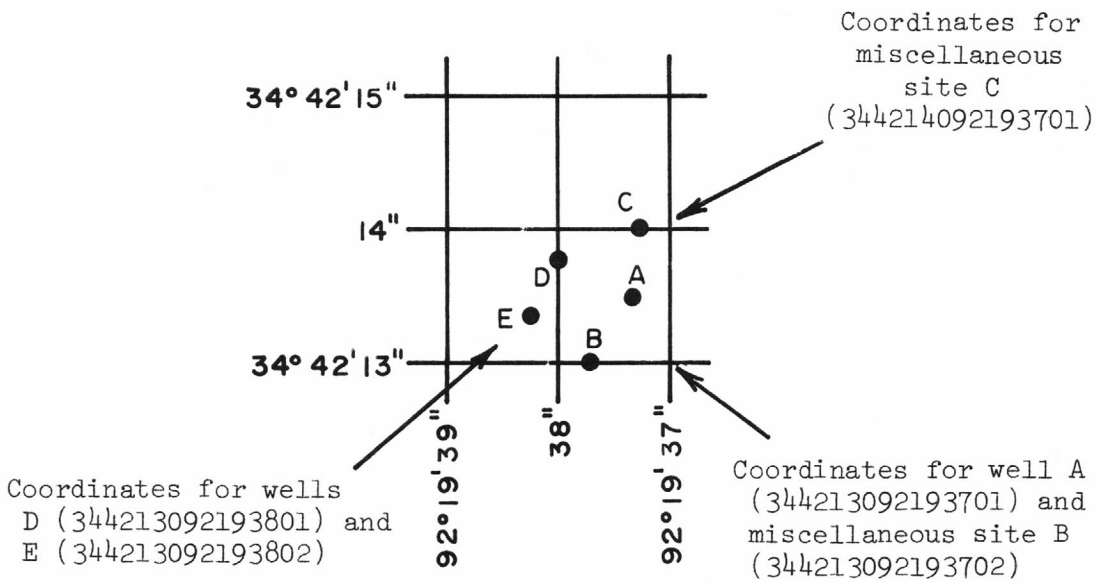
that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention 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 07060710, which appears just to the left of the station name, includes the 2-digit part number "07" plus the 6-digit downstream order number "060710".

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 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 diagram next page.



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 designed by the U.S. Geological Survey to meet many of the information 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 radioisotopes. 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 a continuous reading 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 textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables then the monthly and yearly mean discharge are computed from the

daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of dischage for other stations in the same or nearby basins.

For a lake or 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, the float is frozen in the well, 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 to 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 and for some reservoir 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 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 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 revision, 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 the peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures

based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

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

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of 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. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. 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 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 "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 two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other then continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to

investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of 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.

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 the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

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.

Water temperatures

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 or twice 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 discharges.

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

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
[Temperature reported to nearest 0.5°C]

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	104
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals 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

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

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 diagram on page 17.

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 either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error 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.

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, 604 South Picket Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

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

1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. $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. $0.25.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.20.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.30.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968, 13 pages. $0.20.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $0.45.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1968. 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. 1968. 22 pages. $0.40.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. $0.70.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $1.15.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $0.30.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.20.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.75.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $0.65.

5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. $1.95.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $0.65.

7-C1. *A digital model for aquifer evaluation*, by G. F. Pinder: USGS--TWRI Book 7, Chapter C1. 1970. 18 pages. $0.65.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garver and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $0.40.

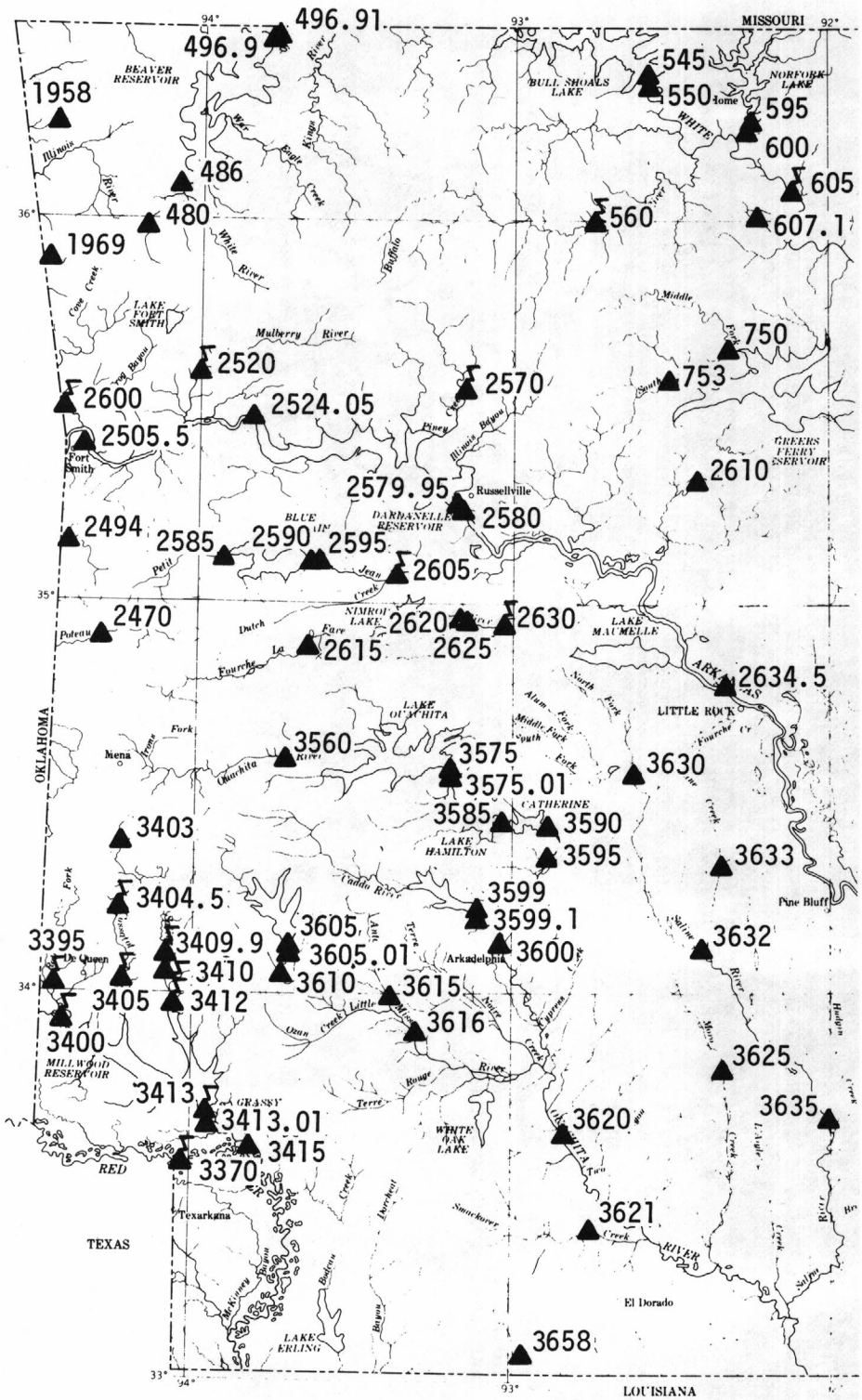


Figure 1.--Locations of continuous record gaging stations in western Arkansas.

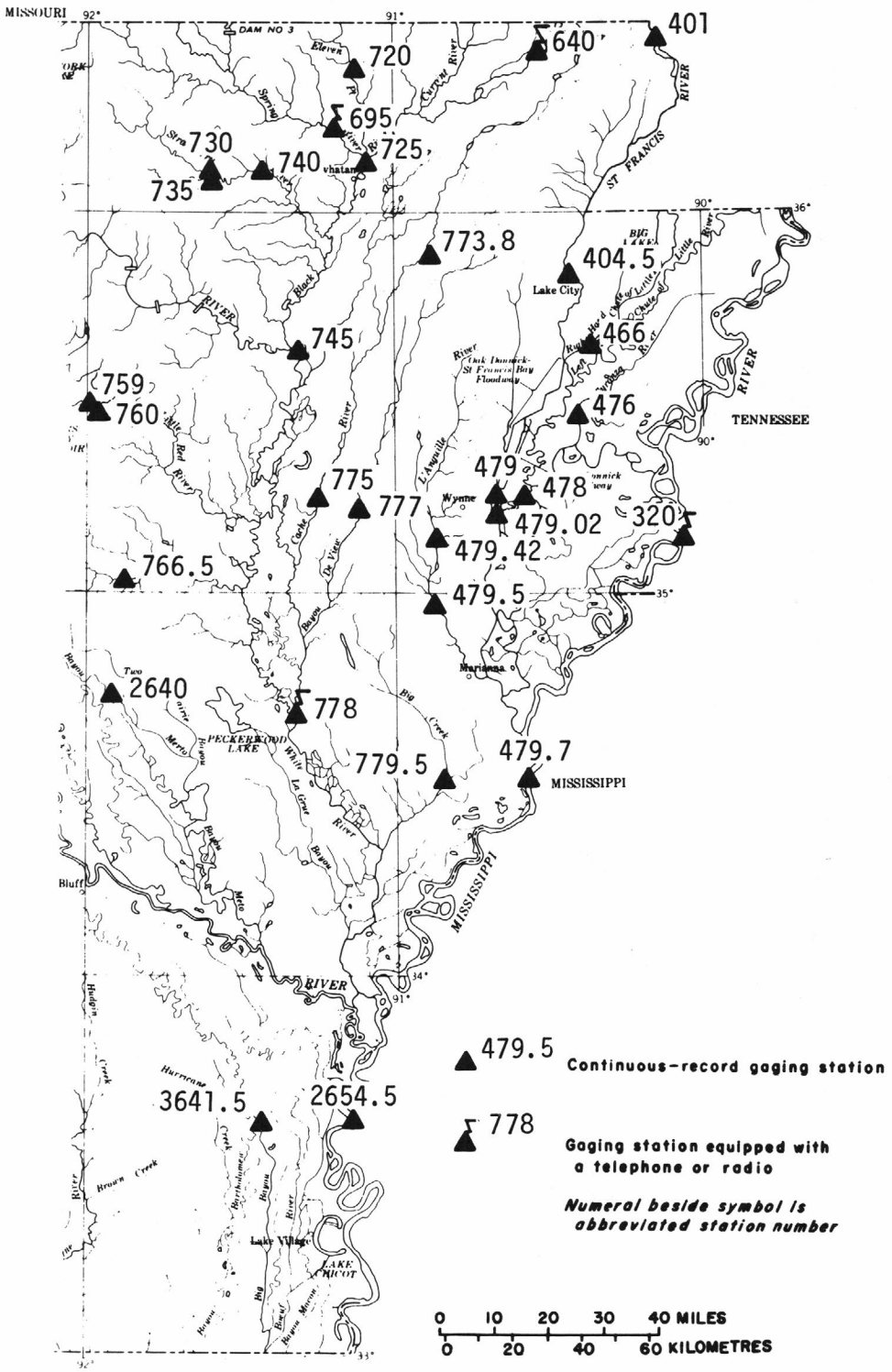


Figure 2.--Locations of continuous record gaging stations in eastern Arkansas.

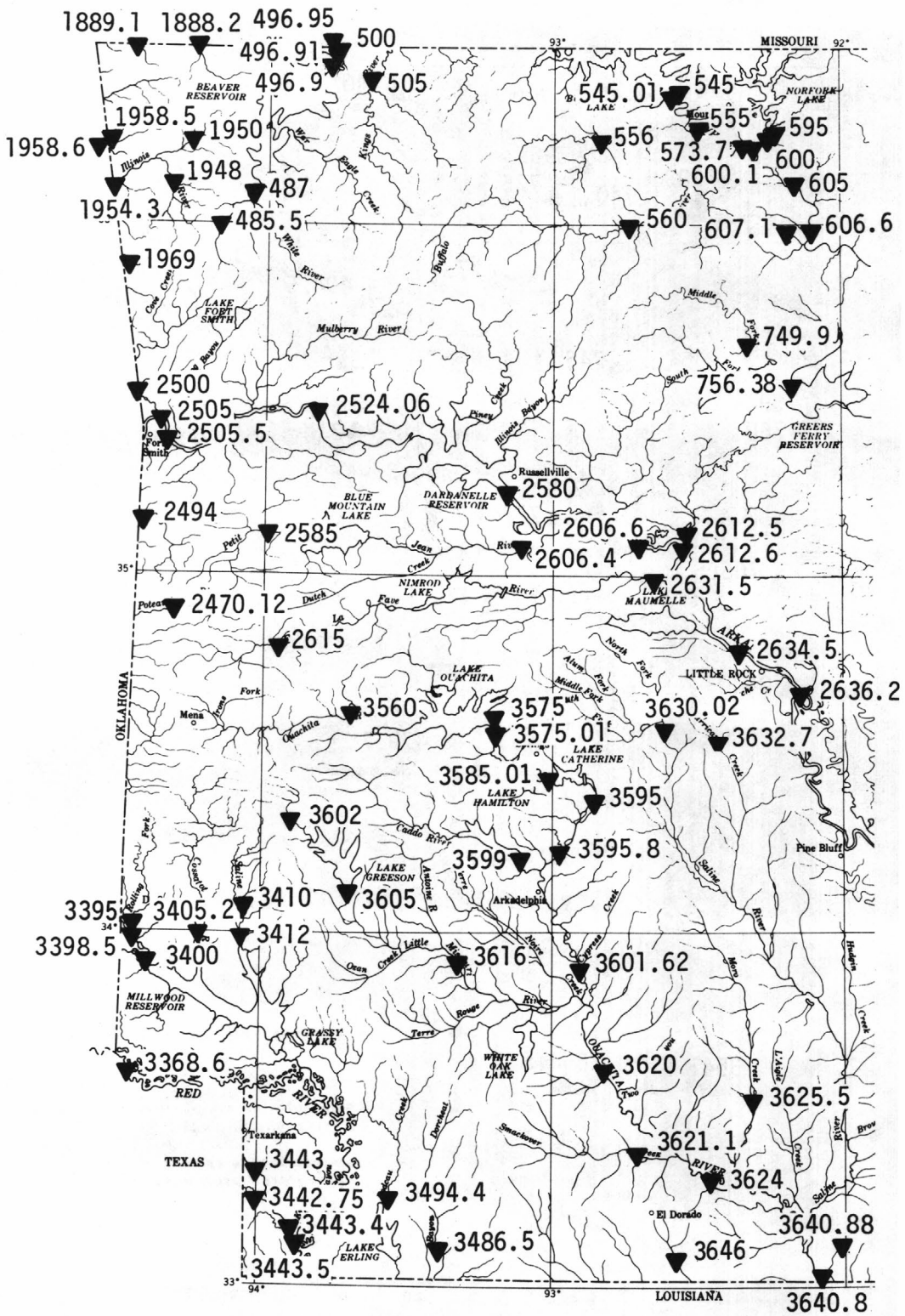


Figure 3.--Locations of water-quality stations in western Arkansas.

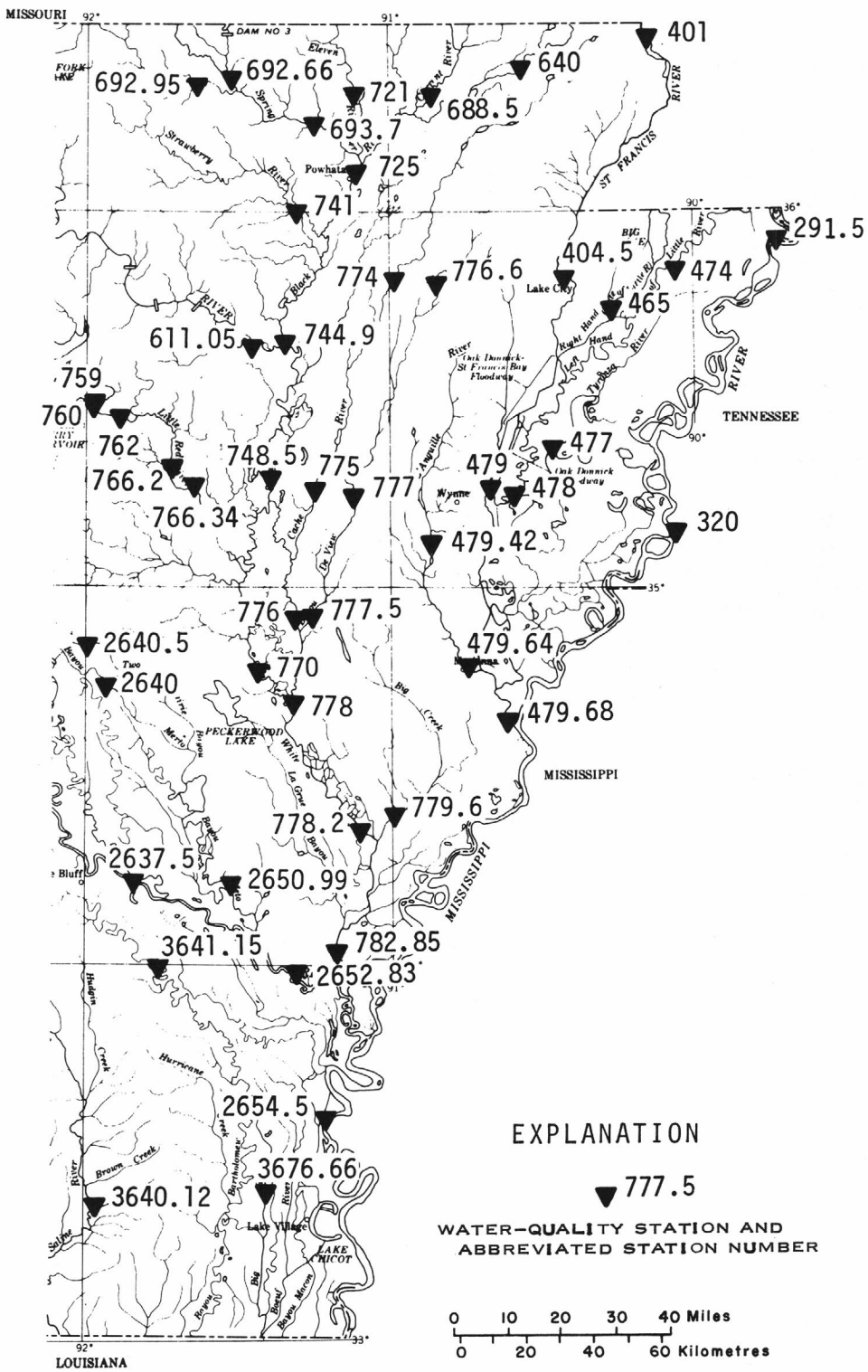


Figure 4.--Locations of water-quality stations in eastern Arkansas.

07029150 MISSISSIPPI RIVER AT BARFIELD, AR

LOCATION.--Lat 35°54'03", long 89°45'36", in sec.24, T.15 N., R.12 E., Mississippi County, at west bank, 0.3 mi (0.5 km) southeast of the east end of State Highway 18, 0.4 mi (0.6 km) southeast of Barfield, and at mile 810.4 (1,303.9 km).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
22...	9827	9827	296	7.9	21.0	18.0	20	50	8.8	92	1.7	6800
NOV												
25...	9827	9827	339	7.9	<1.0	8.0	30	55	10.0	84	2.3	9600
DEC												
29...	9827	9827	346	7.8	9.0	10.0	75	80	11.4	101	3.3	9100
JAN												
14...	9827	9827	297	7.8	18.0	8.0	35	60	12.1	102	3.4	3400
FEB												
11...	9827	9827	400	7.9	24.0	10.0	20	40	11.4	101	3.0	10000
MAR												
22...	9827	9827	379	8.0	24.0	14.0	40	50	10.1	97	2.3	3000
APR												
13...	9827	9827	405	7.8	19.0	14.0	30	60	9.0	87	2.5	3200
MAY												
12...	9827	9827	413	8.0	27.0	18.0	30	60	8.6	91	2.7	2000
JUN												
09...	9827	9827	460	8.0	30.0	25.0	20	170	6.9	82	1.9	4600
JUL												
13...	9827	9827	414	7.9	32.0	25.0	30	70	7.0	83	1.5	4700
AUG												
10...	9827	9827	473	8.0	34.0	27.0	15	20	8.2	101	2.0	--
SEP												
14...	9827	9827	448	8.6	31.0	25.0	5	15	10.6	126	3.6	1000

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
22...	1000	--	120	29	34	84	9.0	18	3.6	111	0	91
NOV												
25...	1400	1100	--	--	--	--	--	--	--	--	--	--
DEC												
29...	100	--	--	--	--	--	--	--	--	--	--	--
JAN												
14...	250	--	--	--	--	--	--	--	--	--	--	--
FEB												
11...	94	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	360	13	170	63	44	110	14	16	5.0	130	0	107
APR												
13...	260	640	--	--	--	--	--	--	--	--	--	--
MAY												
12...	290	--	--	--	--	--	--	--	--	--	--	--
JUN												
09...	430	--	170	63	46	120	13	19	4.2	130	0	107
JUL												
13...	1000	13	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	270	--	190	63	53	130	15	30	3.4	140	7	126

07029150 MISSISSIPPI RIVER AT BARFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
22...	2.2	92	14	405	67	--	.76	.13	<3	<10	0	<10
NOV												
25...	--	85	17	405	257	662	1.1	.14	--	--	--	<10
DEC												
29...	--	60	19	234	157	391	1.7	.23	--	--	--	<10
JAN												
14...	--	45	16	176	61	237	1.4	.16	--	--	--	<10
FEB												
11...	--	78	20	269	91	360	1.6	.12	--	--	--	<10
MAR												
22...	2.1	79	18	258	85	343	1.8	.16	<3	<10	<3	20
APR												
13...	--	70	16	271	116	387	1.5	.17	--	--	--	<10
MAY												
12...	--	58	17	276	100	376	2.1	.17	--	--	--	<10
JUN												
09...	2.1	62	20	292	125	417	2.0	.26	<3	<10	<3	30
JUL												
13...	--	62	17	244	113	357	1.4	.24	--	--	--	10
AUG												
10...	--	72	18	280	33	313	.63	.10	--	<10	--	<10
SEP												
14...	.6	62	15	264	24	288	.14	.17	<3	<10	<3	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
22...	1800	<10	160	<10	.00	.00	.00	.00	.00	.00	.00	<1
NOV												
25...	2000	--	210	20	--	--	--	--	--	--	--	--
DEC												
29...	3200	--	270	20	--	--	--	--	--	--	--	--
JAN												
14...	2000	--	120	10	--	--	--	--	--	--	--	--
FEB												
11...	1700	--	120	<10	--	--	--	--	--	--	--	--
MAR												
22...	5200	20	310	50	.00	.00	.00	.00	.00	.00	--	--
APR												
13...	3100	--	310	20	--	--	--	--	--	--	--	--
MAY												
12...	2800	--	170	<10	--	--	--	--	--	--	--	--
JUN												
09...	4000	10	220	20	.00	.00	.00	.01	.00	.00	.00	<1
JUL												
13...	3600	--	160	210	.00	.00	.00	<.01	.00	.00	.00	<1
AUG												
10...	1900	--	600	180	.00	.00	.00	.00	.00	.00	.00	<1
SEP												
14...	470	<10	82	10	.00	.00	.00	.00	.00	.00	.00	<1

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN

LOCATION.--Lat 35°07'37", long 90°04'25", Shelby County, on left bank 50 ft (15 m) downstream from Harahan Bridge at Memphis, 1.3 mi (2.1 km) downstream from Beale Street gage, 3.5 mi (5.6 km) downstream from Wolf River, 62.4 mi (100.4 km) upstream from St. Francis River, and at mile 734.8 (1,182.3 km).

DRAINAGE AREA.--932,800 mi² (2,416,000 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: January 1933 to current year. Monthly discharge only for some periods, published in WSP 1311.
Gage heights: October 1934 to September 1951 and October 1952 to current year in reports of Geological Survey. Since November 1871, at Beale Street gage, in reports of Mississippi River Commission, December 1890 to August 1932 at Beale Street gage, September 1932 to December 1934 at nonrecording gage 1,000 ft (305 m) downstream, and since December 1934 at water-stage recorder at present site, in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 183.91 ft (56.056 m) above mean sea level. Prior to Apr. 16, 1934, Beale Street nonrecording gage 1.3 mi (2.1 km) upstream at present datum. Apr. 16 to Dec. 21, 1934, nonrecording gage 1,000 ft (305 m) downstream at present datum.

REMARKS.--Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--43 years, 470,800 ft³/s (13,300 m³/s), 341,100,000 acre-ft/yr (421 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980,000 ft³/s (56,100 m³/s) Feb. 8, 1937; maximum gage height, 48.69 ft (14.841 m) Feb. 10, 1937; minimum discharge, 79,200 ft³/s (2,240 m³/s) Aug. 26, 1936; minimum gage height, -5.35 ft (-1.631 m) Jan. 24, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage prior to 1937, 46.55 ft (14.188 m) Apr. 9, 1913, at Beale Street gage or about 45.2 ft (13.78 m) at present site.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 860,000 ft³/s (24,400 m³/s) Feb. 28; maximum gage height, 25.79 ft (7.861 m) Mar. 1; minimum daily discharge, 138,000 ft³/s (3,910 m³/s) Sept. 16, 21.

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	380000	373000	541000	566000	856000	732000	505000	300000	339000	294000	166000
2	469000	350000	383000	584000	580000	857000	743000	533000	324000	333000	276000	170000
3	451000	328000	397000	614000	590000	858000	742000	554000	358000	333000	262000	164000
4	410000	315000	428000	629000	597000	851000	735000	560000	390000	334000	255000	170000
5	361000	293000	483000	654000	589000	848000	730000	558000	437000	348000	260000	183000
6	317000	284000	540000	691000	592000	814000	717000	546000	443000	373000	264000	175000
7	291000	278000	568000	728000	576000	775000	713000	530000	450000	403000	263000	160000
8	285000	275000	574000	740000	551000	753000	700000	504000	454000	406000	251000	153000
9	281000	266000	562000	750000	509000	757000	676000	480000	443000	393000	228000	151000
10	272000	269000	528000	782000	472000	760000	652000	460000	422000	375000	202000	145000
11	268000	276000	492000	792000	441000	765000	625000	440000	391000	352000	192000	141000
12	281000	281000	475000	792000	391000	764000	589000	423000	346000	343000	196000	160000
13	292000	287000	462000	782000	374000	756000	545000	416000	307000	331000	196000	141000
14	294000	293000	451000	761000	366000	727000	508000	403000	284000	323000	191000	139000
15	300000	296000	441000	709000	382000	697000	466000	374000	264000	316000	189000	139000
16	304000	301000	431000	650000	376000	681000	455000	364000	243000	301000	184000	138000
17	306000	316000	419000	584000	371000	663000	432000	369000	230000	296000	169000	140000
18	299000	350000	418000	540000	407000	655000	408000	380000	233000	308000	171000	142000
19	291000	400000	441000	519000	456000	648000	404000	380000	241000	317000	181000	145000
20	307000	445000	478000	523000	535000	638000	392000	390000	242000	311000	189000	145000
21	368000	468000	514000	529000	627000	637000	379000	409000	247000	300000	200000	138000
22	456000	462000	533000	534000	693000	629000	369000	433000	252000	271000	191000	145000
23	520000	436000	529000	519000	740000	617000	362000	445000	264000	263000	191000	152000
24	557000	406000	517000	496000	771000	609000	361000	438000	283000	248000	184000	148000
25	576000	379000	503000	470000	808000	616000	374000	411000	300000	232000	171000	145000
26	569000	359000	492000	445000	840000	629000	404000	376000	313000	226000	157000	143000
27	556000	355000	470000	425000	854000	649000	434000	355000	323000	236000	153000	141000
28	534000	351000	446000	426000	860000	661000	461000	333000	335000	246000	153000	145000
29	500000	350000	432000	447000	859000	683000	473000	316000	339000	251000	158000	145000
30	465000	354000	449000	490000	---	722000	486000	295000	343000	290000	166000	147000
31	423000	---	488000	536000	---	723000	---	289000	---	295000	163000	---
TOTAL	12061000	10205000	14717000	18682000	16773000	22298000	16071000	13269000	9801000	9693000	6300000	4516000
MEAN	389100	340200	474700	602600	578400	719300	535700	428000	326700	312700	203200	150500
MAX	576000	468000	574000	792000	860000	858000	743000	560000	454000	406000	294000	183000
MIN	268000	266000	373000	425000	366000	609000	361000	289000	230000	226000	153000	138000
AC-FT	23920000	20240000	29190000	37060000	33270000	44230000	31880000	26320000	19440000	19230000	12500000	8957000

CAL YR 1975	TOTAL	235970000	MEAN	646500	MAX	1780000	MIN	227000	AC-FT	468000000
WTR YR 1976	TOTAL	154386000	MEAN	421800	MAX	860000	MIN	138000	AC-FT	306200000

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--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	12.50	10.90	8.40	15.40	16.20	25.80	20.60	13.70	5.70	8.20	4.20	-2.00
2	13.10	9.30	8.80	16.70	16.90	25.70	20.90	14.60	6.80	7.80	3.40	-1.90
3	12.60	8.30	9.40	17.70	17.40	25.60	21.20	15.20	8.10	7.70	2.60	-2.60
4	11.40	7.60	10.50	18.20	17.80	25.30	21.30	15.40	9.50	7.70	2.30	-2.50
5	9.70	6.60	12.40	19.00	17.90	25.20	21.50	15.40	11.40	8.30	2.70	-1.80
6	7.70	6.20	14.30	20.00	17.70	24.20	21.40	15.10	11.70	9.20	3.10	-2.60
7	6.10	5.80	15.20	21.00	17.00	23.20	21.30	14.60	12.20	10.30	3.20	-3.90
8	5.50	5.70	15.40	21.30	16.10	22.50	21.00	13.80	12.40	10.40	2.60	-4.40
9	5.10	5.20	15.00	21.60	14.60	22.50	20.30	13.00	12.00	9.80	1.30	-4.50
10	4.40	5.30	14.00	22.40	13.20	22.40	19.60	12.30	11.40	9.00	-.40	-4.90
11	4.00	5.70	12.90	22.70	11.90	22.40	18.80	11.70	10.30	8.00	-.90	-5.10
12	4.80	5.90	12.30	22.70	7.90	22.30	17.60	11.10	8.60	7.60	-.60	-4.90
13	5.40	6.20	11.90	22.50	9.30	22.00	16.30	10.90	6.80	7.00	-.50	-5.00
14	5.60	6.50	11.50	21.90	9.10	21.20	15.10	10.40	5.70	6.50	-.70	-4.90
15	5.90	6.60	11.20	20.60	9.70	20.40	13.50	9.20	4.70	6.10	-.80	-4.70
16	6.20	6.80	10.90	19.00	9.50	19.90	13.00	8.80	3.50	5.40	-1.10	-4.50
17	6.60	7.60	10.50	16.90	9.40	19.30	12.00	9.00	2.50	5.00	-2.10	-4.70
18	6.40	9.10	10.50	15.60	10.80	19.00	11.10	9.60	2.80	5.50	-1.90	-4.90
19	6.00	11.10	11.30	15.00	12.60	18.80	10.70	9.70	3.30	5.90	-1.20	-5.00
20	6.80	12.50	12.80	15.10	15.20	18.40	10.10	10.20	3.40	5.70	-.60	-5.30
21	9.40	13.20	14.20	15.30	18.40	18.40	9.60	11.00	3.80	5.20	.20	-5.70
22	12.80	12.80	15.00	15.30	20.50	18.10	9.10	12.00	4.00	3.80	-.40	-5.20
23	15.30	11.80	15.10	14.70	22.00	17.60	8.80	12.50	4.70	3.40	-.40	-4.60
24	16.50	10.60	14.70	13.80	22.90	17.30	8.70	12.40	5.70	2.60	-.80	-4.90
25	17.10	9.40	14.30	12.80	24.00	17.50	9.10	11.40	6.60	1.60	-1.70	-5.20
26	17.00	8.50	13.90	11.70	24.90	17.90	10.20	9.90	7.20	1.30	-2.90	-5.30
27	16.60	8.20	13.10	10.90	25.30	18.50	11.40	8.90	7.70	2.00	-3.40	-5.50
28	15.90	7.90	12.20	10.80	25.60	18.80	12.20	7.80	8.20	2.70	-3.50	-5.20
29	15.00	7.70	11.80	11.70	25.70	19.40	12.60	6.90	8.30	3.10	-3.30	-5.20
30	13.80	7.80	12.30	13.40	---	20.40	13.00	5.80	8.40	3.80	-2.80	-5.00
31	12.30	---	13.70	15.10	---	20.40	---	5.30	---	4.20	-2.60	---

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued
(National stream-quality accounting and pesticide station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1973 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1973 to current year.
WATER TEMPERATURES: February 1973 to current year.

COOPERATION.--Pesticide samples were collected by the U.S. Geological Survey and were analyzed by the Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 519 micromhos Nov. 12, 1973; minimum, 239 micromhos Mar. 15, 1975.
WATER TEMPERATURES: Maximum, 31.0°C Sept. 8, 12, 16, 1975; minimum, 2.0°C Jan. 4, 12, 1974.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 479 micromhos Sept. 26; minimum, 308 micromhos Jan. 2, 4.
WATER TEMPERATURES: Maximum, 26.0°C on many days during the summer months; minimum, 4.0°C on several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)
OCT											
08...	1028	1028	515	7.1	20.0	40	--	96	160	49	43
NOV											
19...	1028	1028	422	7.1	14.0	22	--	B27	150	42	41
19-30	1028	1028	--	--	--	--	--	--	--	--	--
DEC											
01-10	1028	1028	--	--	--	--	--	--	--	--	--
10...	1028	1028	383	7.6	8.0	90	--	B160	140	40	36
JAN											
13...	1028	1028	302	7.7	4.5	7	--	250	120	42	34
FEB											
10...	1028	1028	371	8.1	4.5	50	--	--	140	45	38
MAR											
10...	1028	1028	365	8.0	11.0	120	530	270	140	34	38
APR											
06...	1028	1028	317	8.2	15.0	86	B180	B110	120	34	34
MAY											
04...	1028	1028	341	7.6	16.0	250	B9000	B900	140	40	37
JUN											
09...	1028	1028	480	7.5	19.5	75	430	--	160	58	42
JUL											
14...	1028	1028	405	7.7	29.0	55	610	B40	150	47	42
AUG											
11...	1028	1028	450	7.8	29.0	25	B250	--	170	54	45
SEP											
09...	1028	1028	455	7.8	27.0	20	575	B44	160	51	42

DATE	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
08...	13	29	28	1.0	3.6	137	0	112	17	93	15
NOV											
19...	11	22	24	.8	3.2	129	0	106	16	74	14
19-30	--	--	--	--	--	--	--	--	--	--	--
DEC											
01-10	--	--	--	--	--	--	--	--	--	--	--
10...	12	18	21	.7	3.5	121	0	99	4.9	54	14
JAN											
13...	8.8	11	16	.4	2.6	96	0	79	3.1	46	13
FEB											
10...	11	16	19	.6	2.9	116	0	95	1.5	50	19
MAR											
10...	11	14	17	.5	3.2	130	0	107	2.1	49	15
APR											
06...	9.4	12	17	.5	2.8	109	0	89	1.1	42	14
MAY											
04...	12	14	17	.5	3.8	124	0	102	5.0	50	11
JUN											
09...	14	18	19	.6	3.0	128	0	105	6.5	63	20
JUL											
14...	11	17	19	.6	2.9	126	0	103	4.0	59	15
AUG											
11...	13	25	24	.8	3.3	136	0	112	3.4	80	21
SEP											
09...	14	28	27	1.0	3.5	136	0	112	3.4	88	19

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT										
08...	.2	5.3	281	270	.38	.68	.74	1.4	6.3	.18
NOV										
19...	.3	4.8	244	234	.33	.66	.91	1.6	7.0	.14
19-30	--	--	--	--	--	--	--	--	--	--
DEC										
01-10	--	--	--	--	--	--	--	--	--	--
10...	.2	4.9	223	202	.30	.76	1.7	2.5	11	.31
JAN										
13...	.1	5.7	248	169	.34	1.1	1.2	2.3	10	.28
FEB										
10...	.2	6.2	222	200	.30	1.3	1.1	2.4	11	.17
MAR										
10...	.2	7.1	227	202	.31	2.0	1.4	3.4	15	.35
APR										
06...	.1	5.9	200	174	.27	1.6	1.2	2.8	12	.25
MAY										
04...	.2	6.0	206	195	.28	2.1	3.0	5.1	23	.64
JUN										
09...	.2	3.7	242	227	.33	1.7	.90	2.6	12	.27
JUL										
14...	.3	4.4	225	214	.31	1.7	.82	2.5	11	.26
AUG										
11...	.3	1.2	258	256	.35	.54	.47	1.0	4.5	.14
SEP										
09...	.3	1.6	276	263	.38	.27	1.0	1.3	5.6	.18

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
OCT											
08...	4	2	2	10	9	1	10	0	10	<50	<50
JAN											
13...	1	0	1	<10	<10	0	10	10	0	<50	<50
APR											
06...	4	4	0	<10	<9	1	0	0	0	<50	<48
JUL											
14...	6	3	3	<10	<9	1	10	10	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT											
08...	0	50	46	4	2500	0	<100	<100	0	170	160
JAN											
13...	0	30	25	5	6600	10	<100	<100	0	390	390
APR											
06...	2	50	40	10	5500	30	<100	<99	1	300	290
JUL											
14...	0	80	75	5	5900	20	<100	<100	0	270	260

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS-PENDED MERCURY (HG) (UG/L) (71895)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
OCT										
08...	10	.0	.0	.0	0	0	0	10	0	10
JAN										
13...	0	.1	.1	.0	0	0	0	110	110	0
APR										
06...	10	.0	.0	.0	0	0	0	80	70	10
JUL										
14...	10	.0	.0	.0	1	0	1	60	60	0

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	TOTAL ALDRIN (UG/L) (39330)	TOTAL ATRA-ZINE (UG/L) (39630)	TOTAL CHLOR-DANE (UG/L) (39350)	TOTAL DDD (UG/L) (39360)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-AZINON (UG/L) (39570)	TOTAL DI-ELDRIN (UG/L) (39380)
OCT									
08...	6.1	--	--	--	--	--	--	--	--
NOV									
19...	--	--	--	--	--	--	--	--	--
DEC									
10...	--	--	--	--	--	--	--	--	--
JAN									
13...	8.0	--	--	--	--	--	--	--	--
FEB									
10...	--	ND	ND	ND	ND	ND	ND	ND	ND
MAR									
10...	--	--	--	--	--	--	--	--	--
APR									
06...	--	--	--	--	--	--	--	--	--
MAY									
04...	--	ND	2.4	ND	ND	ND	ND	ND	ND
JUN									
09...	--	--	--	--	--	--	--	--	--
JUL									
14...	--	--	--	--	--	--	--	--	--
AUG									
11...	--	ND	ND	ND	ND	ND	ND	ND	ND
SEP									
09...	--	--	--	--	--	--	--	--	--

DATE	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTA-CHLOR (UG/L) (39410)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)	TOTAL LINDANE (UG/L) (39340)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METH-OXY-CHLOR (UG/L) (39480)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)
OCT									
08...	--	--	--	--	--	--	--	--	--
NOV									
19...	--	--	--	--	--	--	--	--	--
DEC									
10...	--	--	--	--	--	--	--	--	--
JAN									
13...	--	--	--	--	--	--	--	--	--
FEB									
10...	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR									
10...	--	--	--	--	--	--	--	--	--
APR									
06...	--	--	--	--	--	--	--	--	--
MAY									
04...	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN									
09...	--	--	--	--	--	--	--	--	--
JUL									
14...	--	--	--	--	--	--	--	--	--
AUG									
11...	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEP									
09...	--	--	--	--	--	--	--	--	--

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PARA-THION (UG/L) (39540)	SIMA-ZINE TOTAL ((UG/L) (39025)	TOTAL TOX-APHENE (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)	SUS-PENDED SEDI-MENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT									
08...	--	--	--	--	--	--	--	81	94
NOV									
19...	--	--	--	--	--	--	--	96	88
DEC									
10...	--	--	--	--	--	--	--	224	97
JAN									
13...	--	--	--	--	--	--	--	191	99
FEB									
10...	ND	--	ND	ND	ND	ND	ND	73	99
MAR									
10...	--	--	--	--	--	--	--	299	98
APR									
06...	--	--	--	--	--	--	--	199	94
MAY									
04...	ND	--	ND	ND	ND	ND	ND	740	99
JUN									
09...	--	--	--	--	--	--	--	167	98
JUL									
14...	--	--	--	--	--	--	--	192	96
AUG									
11...	ND	ND	ND	ND	ND	ND	ND	80	96
SEP									
09...	--	--	--	--	--	--	--	68	98

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCT. 8, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

13,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		320	2
	....TETRAEDRON		160	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		640	5
		TOTALS	1,100	8
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		3,700	28
	....MELOSIRA		1,400	11
	....STEPHANODISCUS		160	1
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		320	2
		TOTALS	5,600	42
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....ANACYSTIS		6,100	47
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
L	....OSCILLATORIA			0
		TOTALS	6,100	47
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....PHACUS		160	1
		TOTALS	160	1

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.419
CLASS	1.419
ORDER	1.555
FAMILY	1.641
GENERA	2.093

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NOV. 19, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

12,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...SCENEDESMACEAE				
	....CRUCIGENIA			1,700	13
	....SCENEDESMUS			1,300	10
	....TETRASTRUM			420	3
			TOTALS	3,400	26
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
	....CYCLOTELLA			1,800	14
D	....MELOSIRA			4,600	37
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			520	4
	...NITZSCHIACEAE				
	....NITZSCHIA			840	7
	...SURIRELLACEAE				
	....CYMATOPLEURA			100	1
			TOTALS	7,900	63
	CYANOPHYTA	BLUE-GREEN ALGAE			
	.MYXOPHYCEAE				
	..OSCILLATORIALES	FILAMENTOUS			
	...OSCILLATORIACEAE				
	....OSCILLATORIA			1,300	10
			TOTALS	1,300	10

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.263
CLASS	1.263
ORDER	1.701
FAMILY	1.849
GENERA	2.665

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DEC. 10, 1975
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,200 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
L	....STAURASTRUM			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....H.ARCUS		62	5
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		680	55
D	....MELOSIRA		190	15
L	....STEPHANODISCUS			0
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....ASTERIONELLA		62	5
	....SYNEDRA		62	5
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		190	15
		TOTALS	1,200	100
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
L	....OSCILLATORIA			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.076
FAMILY 1.319
GENERA 1.944

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JAN. 13, 1976
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,800 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....ANKISTRODESMUS			110	4
	...SCENEDESMACEAE				
	....SCENEDESMUS			110	4
			TOTALS	220	8
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			1,100	38
D	....MELOSIRA			1,300	46
	..PENNALES	PENNATE			
	...FRAGILARIACEAE				
	....ASTERIONELLA			110	4
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			110	4
			TOTALS	2,600	92

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.391
CLASS 0.391
ORDER 0.773
FAMILY 0.927
GENERA 1.768

FEB. 10, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,900 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			3,700	94
	....MELOSIRA			240	6
			TOTALS	3,900	100

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
GENERA 0.337

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 10, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,600 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...SCENEDESMACEAE				
	....SCENEDESMUS			350	13
	..VOLVOCALES				
	...CHLAMYDOMONADACEAE				
	....CHLAMYDOMONAS			87	3
			TOTALS	430	16
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			1,000	40
	....MELOSIRA			170	7
	..PENNALES	PENNATE			
	...FRAGILARIACEAE				
L	....SYNEDRA				0
	...GOMPHONEMATACEAE				
	....GOMPHONEMA			87	3
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			350	13
	...NITZSCHIACEAE				
	....HANTZSCHIA			87	3
	....NITZSCHIA			260	10
	...SURIRELLACEAE				
	....SURIRELLA			87	3
			TOTALS	2,100	79
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....EUGLENA			87	3
			TOTALS	87	3

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.852
CLASS	0.852
ORDER	1.756
FAMILY	2.330
GENERA	2.714

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APR. 6, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		39	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		160	4
		TOTALS	190	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		470	12
D	....MELOSIRA		2,100	51
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		39	1
	...CYMBELLACEAE			
	....CYMBELLA		39	1
	...FRAGILARIACEAE			
L	....ASTERIONELLA			0
	....SYNEDRA		39	1
	...MERIDIONACEAE			
	....MERIDION		78	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		78	2
	...NITZSCHIACEAE			
	....NITZSCHIA		78	2
	...SURIRELLACEAE			
	....SURIRELLA		39	1
		TOTALS	2,900	73
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...OCHROMONADACEAE			
	....DINOBRYON		310	8
		TOTALS	310	8
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
D	....APHANIZOMENON		620	15
		TOTALS	620	15
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....EUGLENA			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.886
CLASS	1.251
ORDER	1.659
FAMILY	1.956
GENERA	2.387

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAY 4, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

940 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
	....SCENEDESMUS		60	6
		TOTALS	60	6
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		60	6
D	....MELOSIRA		730	78
	..PENNALES	PENNATE		
	...DIATOMACEAE			
	....DIATOMA		30	3
	...FRAGILARIACEAE			
L	....FRAGILARIA			0
	....SYNEDRA		15	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		15	2
	...NITZSCHIACEAE			
	....NITZSCHIA		15	2
	...SURIRELLACEAE			
	....SURIRELLA		15	2
		TOTALS	880	95

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.341
CLASS	0.341
ORDER	0.785
FAMILY	1.000
GENERA	1.325

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JUNE 9, 1976
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,600 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
D	....SCENEDESMUS		920	20
		TOTALS	920	20
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		920	20
D	....MELOSIRA		1,400	30
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....COCCONEIS		77	2
	...EUNOTIACEAE			
	....EUNOTIA		77	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		460	10
	...NITZSCHIACEAE			
	....NITZSCHIA		77	2
	...SURIRELLACEAE			
	....SURIRELLA		77	2
		TOTALS	3,100	68
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....LYNGBYA		610	13
		TOTALS	610	13

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.242
CLASS	1.242
ORDER	1.783
FAMILY	2.078
GENERA	2.563

JULY 14, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,100 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		72	2
		TOTALS	72	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,700	40
D	....MELOSIRA		2,300	56
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		72	2
		TOTALS	4,000	98

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.127
CLASS	0.127
ORDER	0.254
FAMILY	0.254
GENERA	1.201

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 11, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

19,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		140	1
	....OOCYSTIS		550	3
	...SCENEDESMACEAE			
D	....ACTINASTRUM		3,000	16
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		140	1
		TOTALS	3,900	21
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		6,600	35
D	....MELOSIRA		5,100	27
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....COCCONEIS		140	1
	...NITZSCHIACEAE			
	....NITZSCHIA		830	4
		TOTALS	13,000	67
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		830	4
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....ANABAENA		1,700	9
		TOTALS	2,500	13
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....TRACHELOMONAS		140	1
		TOTALS	140	1

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.293
CLASS	1.293
ORDER	1.713
FAMILY	1.878
GENERA	2.508

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SEP. 9, 1976
1200 HOURS

IDENTIFICATION OF PHYTOPLANKTON

22,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		590	3
	....DICTYOSPHAERIUM		1,800	8
	....TETRAEDRON		150	1
	...SCENEDESMACEAE			
	....ACTINASTRUM		2,400	11
	....SCENEDESMUS		590	3
		TOTALS	5,500	26
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		8,000	36
D	....MELOSIRA		3,300	15
	....STEPHANODISCUS		2,500	11
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		740	3
		TOTALS	15,000	65
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		590	3
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		1,500	7
		TOTALS	2,100	10

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.217
CLASS 1.217
ORDER 1.490
FAMILY 1.737
GENERA 2.829

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
OCT. 8	22	59	55	4	2.2	0.2	1900	POLYETHYLENE STRIP
DEC. 10	22	0.9	0.3	0.6	0.2	0.0	2600	POLYETHYLENE STRIP

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	387	419	313	329	319	370	369	455	431	413	414
2	478	389	424	308	331	330	374	371	456	428	414	414
3	458	390	389	324	332	331	375	370	456	442	413	414
4	460	427	382	308	335	331	375	368	455	426	410	414
5	461	389	419	324	333	336	374	368	455	437	412	412
6	460	407	383	311	333	337	371	370	421	426	412	413
7	460	407	382	312	343	325	374	369	425	431	412	414
8	468	389	421	321	333	325	375	372	419	434	411	416
9	463	392	384	309	330	327	372	371	421	425	411	414
10	415	393	383	324	332	325	375	371	421	432	410	414
11	373	403	402	325	334	328	372	326	421	430	412	413
12	405	422	395	326	332	329	372	328	421	423	414	413
13	405	393	402	312	332	327	372	326	424	424	413	414
14	406	394	383	324	330	329	375	326	423	432	412	414
15	413	424	394	328	342	328	375	326	422	432	416	413
16	406	429	394	321	336	327	375	328	417	432	414	477
17	413	423	395	338	340	328	374	326	422	444	413	477
18	405	393	402	325	330	330	375	327	428	445	414	475
19	407	422	402	323	340	328	372	327	436	448	412	475
20	406	432	401	337	336	327	375	327	438	434	415	476
21	414	427	399	325	326	329	375	328	425	432	413	476
22	413	422	401	328	334	331	375	326	435	431	413	477
23	348	431	403	327	332	327	374	325	424	442	412	477
24	370	430	395	327	343	327	375	328	422	428	412	476
25	370	399	396	322	342	330	374	325	441	432	414	476
26	370	428	373	336	332	330	374	432	424	432	415	479
27	370	427	374	322	330	328	374	421	426	431	414	477
28	365	430	374	339	342	329	374	422	442	442	414	478
29	366	427	373	326	333	328	375	425	438	429	415	478
30	428	427	373	337	---	327	372	438	426	436	414	478
31	428	---	376	338	---	327	---	424	---	432	414	---
MONTH	415	412	393	324	334	328	374	360	431	433	413	445

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	18.0	12.0	6.0	5.0	8.0		26.0	25.0	25.0	26.0	24.0
2	21.0	17.0	12.0	6.0	5.0	8.0		26.0	25.0	25.0	26.0	24.0
3	23.0	17.0	12.0	5.0	4.0	7.0		26.0	25.0	25.0	26.0	25.0
4	22.0	17.0	10.0	5.0	5.0	8.0		25.0	25.0	25.0	26.0	25.0
5	24.0	17.0	10.0	6.0	6.0	8.0		25.0	25.0	26.0	26.0	25.0
6	23.0	17.0	9.0	4.0	5.0	7.0		26.0	25.0	25.0	26.0	26.0
7	23.0	18.0	8.0	5.0	5.0	7.0		26.0	25.0	25.0	25.0	25.0
8	21.0	17.0	9.0	4.0	6.0	9.0		25.0	25.0	25.0	26.0	24.0
9	21.0	15.0	9.0	4.0	5.0	9.0		26.0	26.0	25.0	26.0	24.0
10	21.0	17.0	10.0	5.0	5.0	8.0		26.0	24.0	26.0	26.0	25.0
11	20.0	17.0	9.0	4.0	6.0	9.0		25.0	25.0	26.0	26.0	25.0
12	21.0	15.0	9.0	4.0	5.0	9.0		25.0	25.0	25.0	26.0	25.0
13	20.0	15.0	8.0	5.0	6.0	8.0		24.0	25.0	26.0	25.0	26.0
14	20.0	16.0	9.0	4.0	6.0	9.0		24.0	25.0	26.0	25.0	24.0
15	19.0	15.0	8.0	5.0	5.0	8.0		24.0	24.0	26.0	25.0	25.0
16	20.0	14.0	8.0	4.0	5.0	8.0		24.0	24.0	26.0	26.0	26.0
17	18.0	13.0	9.0	4.0	6.0	9.0		24.0	26.0	26.0	26.0	26.0
18	19.0	14.0	7.0	5.0	6.0	10.0		24.0	26.0	26.0	26.0	26.0
19	19.0	14.0	7.0	4.0	5.0	9.0		24.0	26.0	25.0	24.0	26.0
20	18.0	13.0	7.0	5.0	6.0	9.0		24.0	26.0	25.0	25.0	26.0
21	18.0	13.0	6.0	4.0	6.0	10.0		24.0	26.0	26.0	25.0	25.0
22	18.0	12.0	6.0	5.0	7.0	11.0		21.0	24.0	26.0	25.0	26.0
23	19.0	13.0	7.0	4.0	6.0	10.0		21.0	25.0	26.0	26.0	26.0
24	19.0	12.0	6.0	4.0	7.0	10.0		22.0	25.0	26.0	26.0	24.0
25	18.0	13.0	6.0	4.0	7.0	11.0		26.0	26.0	25.0	25.0	26.0
26	18.0	11.0	6.0	4.0	7.0	11.0		21.0	26.0	26.0	26.0	26.0
27	18.0	11.0	7.0	5.0	6.0	11.0		22.0	26.0	26.0	26.0	25.0
28	19.0	13.0	6.0	4.0	7.0	11.0		20.0	25.0	25.0	25.0	25.0
29	18.0	14.0	6.0	4.0	7.0	12.0		26.0	24.0	26.0	25.0	25.0
30	18.0	14.0	6.0	4.0	---	12.0		23.0	26.0	26.0	26.0	24.0
31	18.0	---	6.0	4.0	---	12.0		23.0	---	26.0	26.0	---
MONTH	20.0	14.5	8.0	4.5	6.0	9.5		24.0	25.0	25.5	25.5	25.0

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, AR

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 36°27'20", long 90°08'13", in sec.18, T.21 N., R.9 E., Clay County at gaging station at bridge on U.S. Highway 62 at St. Francis, and at mile 229 (368.5 km).

DRAINAGE AREA.--1,772 mi^2 (4,589 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 07...	9827	9827	183	7.6	21.0	18.0	30	35	8.3	88	1.2	25
NOV 04...	9827	9827	202	7.8	21.0	16.0	20	40	8.8	88	1.4	75
DEC 15...	9827	9827	147	7.6	1.0	9.0	160	210	9.3	80	2.6	--
JAN 14...	9827	9827	181	7.6	5.0	6.0	50	50	11.6	93	2.7	400
FEB 11...	9827	9827	181	7.8	11.0	5.0	40	35	12.8	100	3.6	<10
MAR 22...	9827	9827	167	7.8	20.0	13.0	90	110	9.4	89	3.1	--
APR 13...	9827	9827	173	7.8	19.0	15.0	35	55	10.0	98	3.1	50
MAY 12...	9827	9827	242	7.9	21.0	18.0	25	45	8.2	86	2.8	40
JUN 09...	9827	9827	192	7.9	32.0	24.0	40	120	8.1	95	3.1	--
JUL 13...	9827	9827	134	8.0	35.0	27.0	50	70	7.1	88	4.0	180
AUG 10...	9827	9827	196	7.5	26.0	25.0	60	80	8.0	95	4.2	200
SEP 14...	9827	9827	361	8.0	24.0	20.0	5	30	8.3	90	3.4	350

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 07...	<13	30	--	--	--	--	--	--	--	130	0	107
NOV 04...	54	210	100	--	25	62	10	5.0	2.2	--	--	--
DEC 15...	3600	5000	--	--	--	--	--	--	--	--	--	--
JAN 14...	20	--	--	--	--	--	--	--	--	--	--	--
FEB 11...	<13	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	3400	1500	84	13	18	46	9.0	4.7	3.5	87	0	71
APR 13...	36	40	--	--	--	--	--	--	--	--	--	--
MAY 12...	<5	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	80	--	90	8	21	52	9.0	5.7	1.6	100	--	82
JUL 13...	20	20	--	--	--	--	--	--	--	--	--	--
AUG 10...	<200	80	--	--	--	--	--	--	--	--	--	--
SEP 14...	20	--	180	24	46	120	17	11	2.0	190	--	156

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
07...	5.2	12	5.5	136	73	209	.35	.06	--	<10	0	50
NOV												
04...	--	--	5.5	146	64	210	.38	.08	<3	<10	0	150
DEC												
15...	--	6.0	7.0	170	412	582	.40	.38	--	--	--	30
JAN												
14...	--	7.0	7.5	112	115	227	.38	.01	--	--	--	80
FEB												
11...	--	21	5.5	149	130	279	.32	.47	--	--	--	110
MAR												
22...	2.2	11	6.0	141	201	342	.51	.29	<3	10	<3	520
APR												
13...	--	10	5.0	121	131	252	.13	.10	--	--	<3	10
MAY												
12...	--	6.0	6.5	136	102	238	<.10	.12	--	--	--	80
JUN												
09...	2.0	3.0	4.5	146	177	323	--	--	--	--	<3	<10
JUL												
13...	--	3.0	4.0	92	149	241	.19	.16	--	--	--	<10
AUG												
10...	--	2.0	7.0	137	109	246	<.10	.06	--	<10	--	<10
SEP												
14...	3.0	5.0	14	202	35	237	.21	.19	<3	<10	<3	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
07...	1400	20	200	20	.00	.00	.00	.00	.00	.00	.00	<1
NOV												
04...	1800	20	250	80	--	--	--	--	--	--	--	--
DEC												
15...	1400	30	640	70	--	--	--	--	--	--	--	--
JAN												
14...	2300	40	240	70	--	--	--	--	--	--	--	--
FEB												
11...	2600	250	240	110	--	--	--	--	--	--	--	--
MAR												
22...	6600	300	480	490	.00	.00	.00	.00	.00	.00	--	--
APR												
13...	2400	40	530	30	--	--	--	--	--	--	--	--
MAY												
12...	1500	30	310	40	--	--	--	--	--	--	--	--
JUN												
09...	4100	<10	430	10	.00	.00	.00	.00	.00	.00	.00	<1
JUL												
13...	3000	10	210	150	.00	.00	.01	.01	.00	.00	.00	<1
AUG												
10...	2900	--	520	20	.00	.00	.01	.01	.00	.00	.00	<1
SEP												
14...	1400	<10	490	140	.00	.00	.00	.00	.00	.00	.00	<1

07040450 ST. FRANCIS RIVER AT LAKE CITY, AR

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 35°49'16", long 90°25'56", in SE¼ sec.22 T.14 N., R.6 E., Craighead County, at gaging station at bridge on State Highway 18 at Lake City and at mile 173.6 (279.3 km).

DRAINAGE AREA.--2,374 mi^2 (6,149 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 22...	9827	9827	278	7.8	16.0	16.0	15	45	7.7	77	1.9	<50
NOV 25...	9827	9827	252	7.9	2.0	6.0	10	15	11.0	88	1.7	120
DEC 29...	9827	9827	125	7.3	10.0	8.0	160	110	10.8	91	3.4	7500
JAN 14...	9827	9827	237	7.8	12.0	8.0	40	30	10.0	84	1.0	1100
FEB 11...	9827	9827	210	7.8	20.0	12.0	30	25	10.6	98	2.2	60
MAR 22...	9827	9827	201	7.7	21.0	16.0	110	170	7.8	78	3.0	6400
APR 13...	9827	9827	238	7.8	14.0	15.0	35	90	8.5	83	4.8	800
MAY 12...	9827	9827	329	8.0	28.0	20.0	60	20	8.0	87	3.2	300
JUN 09...	9827	9827	248	7.9	35.0	25.0	40	140	7.6	90	3.2	400
JUL 13...	9827	9827	196	7.8	39.0	28.0	50	90	6.4	81	2.8	150
AUG 10...	9827	9827	274	7.7	32.0	26.0	30	65	6.8	83	2.2	--
SEP 14...	9827	9827	370	8.2	31.0	24.0	15	45	8.6	101	3.6	370

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 22...	20	--	150	0	38	96	12	7.9	4.9	190	0	156
NOV 25...	30	40	--	--	--	--	--	--	--	--	--	--
DEC 29...	1200	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	43	--	--	--	--	--	--	--	--	--	--	--
FEB 11...	13	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	2200	1100	94	4	24	60	8.0	7.2	4.0	110	0	90
APR 13...	210	60	--	--	--	--	--	--	--	--	--	--
MAY 12...	80	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	<7	--	110	3	30	74	9.0	8.2	2.3	130	--	107
JUL 13...	130	190	--	--	--	--	--	--	--	--	--	--
AUG 10...	40	90	--	--	--	--	--	--	--	--	--	--
SEP 14...	30	--	210	46	58	150	16	9.8	2.0	200	--	164

07040450 ST. FRANCIS RIVER AT LAKE CITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
22...	4.8	15	6.5	--	87	--	.18	.08	<3	<10	0	<10
NOV												
25...	--	7.0	6.0	216	17	233	.14	.05	--	--	--	<10
DEC												
29...	--	5.0	6.5	138	46	184	.65	.24	--	--	--	<10
JAN												
14...	--	11	6.5	151	19	170	.24	.07	--	--	--	<10
FEB												
11...	--	10	5.0	141	50	191	.19	.01	--	--	--	<10
MAR												
22...	3.5	10	7.0	168	180	348	.93	.16	<3	<10	<3	10
APR												
13...	--	11	6.5	161	140	301	.15	.17	--	--	--	<10
MAY												
12...	--	7.0	8.0	201	101	302	<.10	.16	--	--	--	10
JUN												
09...	2.6	5.0	7.5	179	65	244	.64	.20	<3	<10	<3	<10
JUL												
13...	--	2.0	5.5	141	94	235	.24	.22	--	--	--	10
AUG												
10...	--	5.0	5.0	167	84	251	<.10	<.01	--	<10	--	170
SEP												
14...	2.0	5.0	8.5	212	68	280	.17	.12	<3	<10	<3	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
22...	2100	<10	390	<10	.00	.00	.00	.00	.00	.00	.00	<1
NOV												
25...	590	--	140	<10	--	--	--	--	--	--	--	--
DEC												
29...	3800	--	150	10	--	--	--	--	--	--	--	--
JAN												
14...	1300	--	210	<10	--	--	--	--	--	--	--	--
FEB												
11...	950	--	120	<10	--	--	--	--	--	--	--	--
MAR												
22...	7900	10	520	20	.00	.00	.00	.00	.00	.00	--	--
APR												
13...	3800	--	630	20	--	--	--	--	--	--	--	--
MAY												
12...	2000	--	520	<10	--	--	--	--	--	--	--	--
JUN												
09...	4300	<10	420	20	.00	.00	.00	.00	.00	.00	.00	<1
JUL												
13...	4900	--	430	10	.00	.00	.00	.00	.00	.00	.00	<1
AUG												
10...	3600	--	300	50	.00	.00	.00	.00	.00	.00	.00	<1
SEP												
14...	1500	<10	380	10	.00	.00	.00	.00	.00	.00	.00	<1

07046500 RIGHT HAND CHUTE OF LITTLE RIVER AT BIG LAKE OUTLET, NEAR MANILA, AR

LOCATION.--Lat 35°51'00", long 90°07'40", in sec.10, T.14 N., R.9 E., Mississippi County, at Corps of Engineers gaging station at bridge on State Highway 18, 3.5 mi (5.6 km) southeast of Manila, and at mile 23.0 (37.0 km).

DRAINAGE AREA.--2,084 mi^2 (5,398 km^2).

PERIOD OF RECORD.--October 1970 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 22...	9827	9827	341	7.8	15.0	16.0	10	15	8.1	81	1.6	100
NOV 25...	9827	9827	298	7.8	2.0	5.0	20	25	10.1	79	1.8	170
DEC 29...	9827	9827	211	7.6	9.0	8.0	100	110	10.5	88	2.0	6600
JAN 14...	9827	9827	275	7.8	16.0	6.0	70	100	10.8	86	1.2	510
FEB 11...	9827	9827	287	7.9	22.0	11.0	50	50	10.4	93	1.3	<20
MAR 22...	9827	9827	278	8.1	26.0	15.0	50	65	9.1	89	2.3	--
APR 13...	9827	9827	302	8.0	16.0	16.0	25	60	8.8	88	5.0	60
MAY 12...	9827	9827	383	7.9	29.0	21.0	15	40	6.6	73	1.6	100
JUN 09...	9827	9827	214	7.7	37.0	24.0	80	140	5.3	62	2.1	120
JUL 13...	9827	9827	166	7.5	39.0	27.0	80	120	5.3	65	1.7	--
AUG 10...	9827	9827	368	7.7	30.0	26.0	20	35	6.5	79	2.5	<20
SEP 14...	9827	9827	446	8.2	32.0	27.0	10	20	9.3	115	3.5	60

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 22...	20	--	170	6	46	110	14	14	1.9	200	0	164
NOV 25...	33	110	--	--	--	--	--	--	--	--	--	--
DEC 29...	310	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	23	--	--	--	--	--	--	--	--	--	--	--
FEB 11...	20	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	28	120	130	7	38	94	9.0	10	3.4	150	0	123
APR 13...	15	110	--	--	--	--	--	--	--	--	--	--
MAY 12...	25	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	45	--	82	16	25	62	5.0	7.1	4.2	81	--	66
JUL 13...	53	50	--	--	--	--	--	--	--	--	--	--
AUG 10...	33	10	--	--	--	--	--	--	--	--	--	--
SEP 14...	40	--	220	48	63	160	16	15	2.6	210	--	172

07046500 RIGHT HAND CHUTE OF LITTLE RIVER AT BIG LAKE OUTLET, NEAR MANILA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
22...	5.1	27	16	--	25	--	.17	.07	<3	<10	0	<10
NOV												
25...	--	17	14	267	34	301	.18	.06	--	--	--	<10
DEC												
29...	--	12	12	202	93	295	.57	.23	--	--	--	<10
JAN												
14...	--	14	14	194	112	306	.63	.21	--	--	--	<10
FEB												
11...	--	21	12	214	53	267	.54	.07	--	--	--	<10
MAR												
22...	1.9	--	12	199	70	269	.29	.21	<3	<10	<3	<10
APR												
13...	--	16	12	196	83	279	.10	.16	--	--	--	<10
MAY												
12...	--	16	16	227	62	289	<.10	.15	--	--	--	<10
JUN												
09...	2.6	7.0	10	195	71	266	1.6	.28	<3	<10	<3	<10
JUL												
13...	--	4.0	7.0	147	98	245	.37	.27	--	--	--	<10
AUG												
10...	--	14	12	211	36	247	<.10	.09	--	--	--	<10
SEP												
14...	2.1	15	18	252	8	260	<.10	.11	<3	<10	<3	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
22...	690	<10	77	<10	.00	.00	.00	.00	.00	.00	.00	<1
NOV												
25...	960	--	95	<10	--	--	--	--	--	--	--	--
DEC												
29...	3600	--	99	20	--	--	--	--	--	--	--	--
JAN												
14...	4200	--	100	20	--	--	--	--	--	--	--	--
FEB												
11...	2400	--	78	<10	--	--	--	--	--	--	--	--
MAR												
22...	2900	20	160	<10	.00	.00	.00	.00	.00	.00	--	--
APR												
13...	1700	--	180	<10	--	--	--	--	--	--	--	--
MAY												
12...	1300	--	220	<10	--	--	--	--	--	--	--	--
JUN												
09...	4400	<10	200	20	.00	.00	.00	.01	.00	.00	.00	<1
JUL												
13...	6800	--	200	10	.00	.00	.00	.01	.00	.00	.00	<1
AUG												
10...	3500	--	420	610	.00	.00	.00	.00	.00	.00	.00	<1
SEP												
14...	410	<10	110	20	.00	.00	.00	.00	.00	.00	.00	<1

07046600 RIGHT HAND CHUTE OF LITTLE RIVER AT RIVERVALE, AR

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

07047400 PEMISCOT BAYOU AT DELL, AR

LOCATION.--Lat 35°51'30", long 90°02'48", in SW¼ sec.5, T.14 N., R.10 E., Mississippi County, at bridge on State Highway 119, 0.7 mi (1.1 km) north of Dell.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	INSTAN-TANEOUS DIS-CHARGE (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER-ATURE (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT 22...	9827	9827	150	478	7.8	15.0	15.0	20	35	6.0
NOV 25...	9827	9827	--	488	7.6	2.0	4.0	20	20	9.8
DEC 29...	9827	9827	--	244	7.3	8.0	7.0	80	120	8.8
JAN 14...	9827	9827	--	523	7.4	16.0	8.0	15	35	9.0
MAR 22...	9827	9827	194	391	7.8	26.0	16.0	25	40	8.6
APR 13...	9827	9827	--	541	7.7	15.0	17.0	20	30	10.4
MAY 12...	9827	9827	183	533	8.1	29.0	22.0	15	25	13.9
JUN 09...	9827	9827	--	518	8.0	37.0	26.0	20	85	11.8
JUL 13...	9827	9827	--	529	7.9	39.0	29.0	15	40	11.1
AUG 10...	9827	9827	--	549	7.8	32.0	28.0	15	35	9.8
SEP 14...	9827	9827	--	551	8.4	32.0	28.0	10	50	12.1

DATE	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)
OCT 22...	59	6.0	--	3300	--	210	0	57	140	17
NOV 25...	74	4.9	1200	880	59	--	--	--	--	--
DEC 29...	72	3.8	10000	1100	--	--	--	--	--	--
JAN 14...	75	7.2	28000	6200	--	--	--	--	--	--
MAR 22...	86	5.0	5600	720	160	180	0	46	120	15
APR 13...	107	8.5	20000	5000	80	--	--	--	--	--
MAY 12...	158	5.6	350	25	--	--	--	--	--	--
JUN 09...	144	11	120	30	--	240	2	64	160	18
JUL 13...	142	9.0	--	280	20	--	--	--	--	--
AUG 10...	124	5.2	450	100	20	--	--	--	--	--
SEP 14...	153	6.8	330	780	--	280	40	81	200	19

07047400 PEMISCOT BAYOU NEAR DELL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
22...	32	6.7	290	0	238	7.4	35	22	--	48
NOV										
25...	--	--	--	--	--	--	25	17	395	35
DEC										
29...	--	--	--	--	--	--	15	9.0	172	149
JAN										
14...	--	--	--	--	--	--	43	15	316	54
MAR										
22...	12	4.3	220	0	180	5.6	--	8.0	236	81
APR										
13...	--	--	--	--	--	--	27	10	380	12
MAY										
12...	--	--	--	--	--	--	30	11	332	58
JUN										
09...	18	4.6	290	--	238	4.6	18	10	335	65
JUL										
13...	--	--	--	--	--	--	16	9.0	325	59
AUG										
10...	--	--	--	--	--	--	16	9.0	322	58
SEP										
14...	26	5.3	290	1	240	1.9	22	14	331	102

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
22...	--	.45	.70	<3	<10	0	80	1500	20	480
NOV										
25...	430	.63	.62	--	--	--	20	2100	--	580
DEC										
29...	321	.94	.48	--	--	--	90	5700	--	420
JAN										
14...	370	.92	.90	--	--	--	120	2700	--	800
MAR										
22...	317	.80	.25	<3	<10	<3	140	2900	30	730
APR										
13...	392	.47	.33	--	--	--	<10	2200	--	860
MAY										
12...	390	.59	.56	--	--	--	80	1300	--	530
JUN										
09...	400	.81	.40	<3	<10	<3	100	2800	300	1500
JUL										
13...	384	.48	.40	--	--	--	<10	2000	--	560
AUG										
10...	380	.89	.30	--	<10	--	10	1500	--	240
SEP										
14...	433	.11	.69	<3	<10	<3	<10	2200	<10	390

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
22...	50	.00	.00	.00	.00	.00	--	--	<1
NOV									
25...	30	--	--	--	--	--	--	--	--
DEC									
29...	60	--	--	--	--	--	--	--	--
JAN									
14...	140	--	--	--	--	--	--	--	--
MAR									
22...	100	--	--	--	--	--	--	--	--
APR									
13...	20	--	--	--	--	--	--	--	--
MAY									
12...	10	--	--	--	--	--	--	--	--
JUN									
09...	20	--	--	--	--	--	--	--	--
JUL									
13...	270	.00	.00	.00	.03	.00	.00	.00	<1
AUG									
10...	<10	.00	.00	.00	.02	.00	.00	.00	<1
SEP									
14...	470	.00	.00	.00	.01	.00	.00	.00	<1

07047600 TYRONZA RIVER NEAR TYRONZA, AR

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

07047700 TYRONZA RIVER NEAR TWIST, AR

LOCATION.--Lat 35°22'30", long 90°28'00", in NE¼SE¼ sec.29, T.9 N., R.6 E., Crittenden County, at bridge on State Highway 42, 0.4 mi (0.6 km) downstream from Mack Bayou, and 2.1 mi (3.4 km) east of Twist.

DRAINAGE AREA.--533 mi^2 (1,380 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 13...	9827	9827	517	7.9	22.0	21.0	10	50	7.3	81	2.5	250
NOV 12...	9827	9827	224	7.3	13.0	14.0	120	190	6.2	59	2.9	4200
DEC 15...	9827	9827	399	7.9	10.0	14.0	45	60	7.9	76	1.7	--
JAN 15...	9827	9827	513	7.8	.0	6.0	10	25	9.3	75	1.1	1400
MAR 22...	9827	9827	366	8.0	20.0	14.0	30	170	7.7	74	2.9	1600
APR 14...	9827	9827	354	8.0	16.0	16.0	20	75	8.6	86	3.1	500
JUN 09...	9827	9827	521	8.1	27.0	24.0	15	110	9.5	112	5.6	670
23...	9827	9827	--	--	--	--	--	--	--	--	--	--
JUL 14...	9827	9827	581	8.0	29.0	27.0	15	55	7.3	90	4.6	850
AUG 11...	9827	9827	599	7.9	25.0	26.0	10	65	7.7	94	5.6	--
SEP 15...	9827	9827	628	8.0	21.0	21.0	5	50	7.4	82	5.0	700

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 13...	65	120	270	0	81	200	17	17	4.2	340	0	279
NOV 12...	200	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	310	--	--	--	--	--	--	--	--	--	--
JAN 15...	38	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	560	490	190	18	49	120	17	11	6.5	210	0	172
APR 14...	400	50	--	--	--	--	--	--	--	--	--	--
JUN 09...	93	--	230	110	46	120	28	12	4.0	150	--	123
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	100	60	--	--	--	--	--	--	--	--	--	--
AUG 11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	120	--	370	91	100	260	27	17	3.7	340	--	279

07047700 TYRONZA RIVER NEAR TWIST, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
13...	6.8	48	9.0	381	107	488	.32	.08	<3	<10	0	30
NOV												
12...	--	85	7.0	187	180	367	.51	.41	--	--	--	10
DEC												
15...	--	54	8.0	317	135	452	.44	.32	--	--	--	<10
JAN												
15...	--	38	7.5	311	56	367	.53	.11	--	--	--	80
MAR												
22...	3.4	29	6.0	238	263	501	.22	.32	<3	<10	<3	60
APR												
14...	--	17	8.5	252	118	370	.18	.25	--	--	--	30
JUN												
09...	1.9	48	6.0	314	100	414	.18	.24	<3	<10	<3	230
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
14...	--	36	7.5	354	93	447	.14	.21	--	--	--	10
AUG												
11...	--	37	6.5	351	108	463	.15	.06	--	--	--	--
SEP												
15...	5.4	37	8.0	369	41	410	<.10	.18	<3	<10	<3	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
13...	3800	10	520	50	.00	.00	.00	.00	.00	.00	--	--
NOV												
12...	8600	<10	360	40	--	--	--	--	--	--	--	--
DEC												
15...	5700	<10	400	20	--	--	--	--	--	--	--	--
JAN												
15...	1900	40	420	40	--	--	--	--	--	--	--	--
MAR												
22...	770	30	280	70	--	--	--	--	--	--	--	--
APR												
14...	4500	20	320	50	--	--	--	--	--	--	--	--
JUN												
09...	4800	50	320	100	--	--	--	--	--	--	--	--
23...	--	--	--	--	.00	.00	.00	.01	.00	.00	.00	<1
JUL												
14...	3800	<10	290	120	.00	.00	.00	.01	.00	.00	.00	<1
AUG												
11...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
SEP												
15...	2200	<10	420	90	.00	.00	.00	.00	.00	.00	.09	<1

07047800 ST. FRANCIS RIVER AT PARKIN, AR
(National stream-quality accounting and pesticide station)

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 35°16'23", long 90°33'33", in NE¼SE¼ sec.33, T.8 N., R.5 E., Cross County, at gaging station at bridge on U.S. Highway 64 at Parkin, 1.1 mi (1.8 km) downstream from Tyronza River, and at mile 102.0 (164.1 km).

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,473 mi^2 (16,770 km^2).

PERIOD OF RECORD.--January 1973 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1973 to current year.
WATER TEMPERATURES: January 1973 to current year.

REMARKS.--The greater part of St. Francis River floodflow is diverted through St. Francis River floodway at lock and dam about 4.0 mi (6.4 km) northwest of Marked Tree, and is not included in records for this station. Diverted flow is included in records for St. Francis Bay at Riverfront and returns to the St. Francis River below Marianna (see station 07047900).

COOPERATION.--Pesticide samples were collected by the U.S. Geological Survey and were analysed by the Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 538 micromhos Oct. 28, 1974; minimum, 46 micromhos Apr. 3, 1975.
WATER TEMPERATURES: Maximum, 31.5°C Sept. 4, 1975; minimum, 0.5°C Jan. 4-5, 12-13, 1974.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 531 micromhos Oct. 22, 23; minimum, 74 micromhos Feb. 22.
WATER TEMPERATURES: Maximum, 31.0°C July 25-27; minimum, 1.0°C Jan. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)
NOV											
05...	1028	1028	469	6.9	17.5	25	150	1100	230	1	66
DEC											
02...	1028	1028	195	7.6	9.0	580	--	B11000	80	12	22
02-31	1028	1028	--	--	--	--	--	--	--	--	--
JAN											
06...	1028	1028	168	7.4	3.0	250	--	>2000	70	7	19
FEB											
02...	1028	1028	311	7.6	7.0	130	B89	B380	140	5	40
MAR											
01...	1028	1028	190	8.3	15.0	200	B110	920	99	8	28
02...	1028	1028	--	--	--	--	--	--	--	--	--
29...	1028	1028	281	8.0	17.0	440	--	3000	120	13	35
APR											
26...	1028	1028	457	7.8	18.0	170	210	480	200	8	57
JUN											
01...	1028	1028	212	8.0	23.0	110	280	1900	88	24	24
JUL											
06...	1028	1028	178	7.3	26.0	250	--	B1600	75	9	21
AUG											
02...	1028	1028	350	7.5	28.0	50	--	B60	180	16	52
02-30	1028	1028	--	--	--	--	--	--	--	--	--
30...	1028	1028	410	7.8	28.0	50	B50	120	200	16	56

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM AD-SORP-TION RATIO (00931)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L) (00935)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)
NOV											
05...	17	11	9	.3	2.7	285	0	234	57	23	6.9
DEC											
02...	6.0	5.8	13	.3	5.0	82	0	67	3.3	17	4.9
02-31	--	--	--	--	--	--	--	--	--	--	--
JAN											
06...	5.4	4.4	11	.2	3.5	76	0	62	4.8	13	2.5
FEB											
02...	9.6	5.9	8	.2	3.3	164	0	135	6.6	20	4.0
MAR											
01...	7.1	5.6	11	.2	3.0	111	0	91	.9	15	3.3
02...	--	--	--	--	--	--	--	--	--	--	--
29...	8.6	7.2	11	.3	3.1	134	0	110	2.1	17	5.9
APR											
26...	15	10	9	.3	3.2	239	0	196	6.1	25	6.7
JUN											
01...	6.8	5.0	11	.2	3.4	78	0	64	1.2	14	4.7
JUL											
06...	5.5	5.0	12	.3	3.0	81	0	66	6.5	8.5	4.5
AUG											
02...	13	9.5	10	.3	2.8	204	0	167	10	17	7.8
02-30	--	--	--	--	--	--	--	--	--	--	--
30...	15	11	10	.3	2.5	226	0	185	5.7	20	8.6

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
NOV										
05...	.1	19	298	286	.41	.12	.67	.79	3.5	.18
DEC										
02...	.1	9.3	127	111	.17	1.1	--	--	--	1.1
02-31	--	--	--	--	--	--	--	--	--	--
JAN										
06...	.1	7.3	106	93	.14	.52	2.3	2.8	12	.59
FEB										
02...	.1	14	195	178	.27	.67	1.4	2.1	9.2	.37
MAR										
01...	.2	9.9	136	127	.19	.70	2.0	2.7	12	.65
02...	--	--	--	--	--	--	--	--	--	--
29...	.1	12	172	155	.23	1.6	3.4	5.0	22	.89
APR										
26...	.2	16	268	251	.36	1.2	1.6	2.8	12	.47
JUN										
01...	.2	12	126	109	.17	4.3	1.8	6.1	27	.46
JUL										
06...	.2	9.9	114	98	.16	.60	1.2	1.8	8.0	.56
AUG										
02...	.2	15	231	218	.31	.27	.78	1.1	4.6	.31
02-30	--	--	--	--	--	--	--	--	--	--
30...	.2	16	252	241	.34	.08	.48	.56	2.5	.27

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
JAN											
06...	8	8	0	<10	<7	3	20	20	0	<50	<50
APR											
26...	7	6	1	<10	<8	2	10	10	0	<50	<50
JUL											
06...	--	--	3	2	0	2	20	20	0	4	4

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
JAN											
06...	0	20	0	20	12000	90	<100	<97	3	260	250
APR											
26...	0	20	11	9	9800	60	<100	<97	3	430	410
JUL											
06...	0	27	16	11	12000	40	15	15	0	160	150

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS-PENDED MERCURY (HG) (UG/L) (71895)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
JAN										
06...	10	.4	.0	.4	1	1	0	150	120	30
APR										
26...	20	.0	.0	.0	1	1	0	60	60	0
JUL										
06...	10	.1	.0	.1	1	0	1	60	60	0

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	TOTAL ATRA-ZINE (UG/L) (39630)	ATRA-ZINE IN BOTTOM MATERI-AL (UG/KG DRY SOLIDS) (39631)	TOTAL CHLOR-DANE (UG/L) (39350)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)
NOV											
05...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
06...	14	--	--	--	--	--	--	--	--	--	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
02...	--	ND	--	ND	--	ND	--	ND	--	ND	--
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
26...	9.5	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	ND	--	ND	--	ND	--	ND	--	ND	--
30...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	TOTAL DI-AZINON (UG/L) (39570)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	TOTAL DI-ELDRIN (UG/L) (39380)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	TOTAL ETHION (UG/L) (39398)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)
NOV										
05...	--	--	--	--	--	--	--	--	--	--
DEC										
02...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
02...	ND	--	ND	--	ND	--	ND	--	ND	--
29...	--	--	--	--	--	--	--	--	--	--
APR										
26...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND
JUL										
06...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	ND	--	ND	--	ND	--	ND	--	ND	--
30...	--	--	--	--	--	--	--	--	--	--

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL HEPTACHLOR (UG/L) (39410)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG) (39413)	TOTAL HEPTACHLOR EPOXIDE (UG/L) (39420)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)	LINDANE IN BOTTOM MATERIAL (UG/KG) (39343)	TOTAL MALATHION (UG/L) (39530)	MALATHION IN BOTTOM MATERIAL (UG/KG) (39531)	TOTAL METHOXYCHLOR (UG/L) (39480)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG) (39481)
NOV 05...	--	--	--	--	--	--	--	--	--	--
DEC 02...	--	--	--	--	--	--	--	--	--	--
JAN 06...	--	--	--	--	--	--	--	--	--	--
FEB 02...	--	--	--	--	--	--	--	--	--	--
MAR 01...	--	--	--	--	--	--	--	--	--	--
02...	ND	--	ND	--	ND	--	ND	--	ND	--
29...	--	--	--	--	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--	--	--	--	--
JUN 01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL 06...	--	--	--	--	--	--	--	--	--	--
AUG 02...	ND	--	ND	--	ND	--	ND	--	ND	--
30...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL METHYL PARATHION (UG/L) (39600)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG) (39601)	TOTAL METHYL TRITHION (UG/L) (39790)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG) (39791)	TOTAL PARATHION (UG/L) (39540)	PARATHION IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL((UG/L) (39025)	SIMAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS) (39046)	TOTAL TOXAPHENE (UG/L) (39400)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG) (39403)
NOV 05...	--	--	--	--	--	--	--	--	--	--
DEC 02...	--	--	--	--	--	--	--	--	--	--
JAN 06...	--	--	--	--	--	--	--	--	--	--
FEB 02...	--	--	--	--	--	--	--	--	--	--
MAR 01...	--	--	--	--	--	--	--	--	--	--
02...	ND	--	ND	--	ND	--	--	--	ND	--
29...	--	--	--	--	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--	--	--	--	--
JUN 01...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL 06...	--	--	--	--	--	--	--	--	--	--
AUG 02...	ND	--	ND	--	ND	--	ND	--	ND	--
30...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL TRITHION (UG/L) (39786)	TRITHION IN BOTTOM MATERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	2,4-D IN BOTTOM MATERIAL (UG/KG) (39731)	TOTAL 2,4,5-T (UG/L) (39740)	2,4,5-T IN BOTTOM MATERIAL (UG/KG) (39741)	TOTAL SILVEX (UG/L) (39760)	SILVEX IN BOTTOM MATERIAL (UG/KG) (39761)	SUSPENDED SEDIMENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 05...	--	--	--	--	--	--	--	--	62	97
DEC 02...	--	--	--	--	--	--	--	--	1110	100
JAN 06...	--	--	--	--	--	--	--	--	370	99
FEB 02...	--	--	--	--	--	--	--	--	185	99
MAR 01...	--	--	--	--	--	--	--	--	378	100
02...	ND	--	ND	--	ND	--	ND	--	--	--
29...	--	--	--	--	--	--	--	--	1030	99
APR 26...	--	--	--	--	--	--	--	--	311	98
JUN 01...	ND	ND	ND	ND	ND	ND	ND	ND	387	99
JUL 06...	--	--	--	--	--	--	--	--	347	98
AUG 02...	ND	--	ND	--	ND	--	ND	--	150	97
30...	--	--	--	--	--	--	--	--	124	97

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NOV. 5, 1975
1215 HOURS

IDENTIFICATION OF PHYTOPLANKTON

7,500 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
L	....DICTYOSPHAERIUM			0
	...SCENEDESMACEAE			
D	....SCENEDESMUS		1,400	18
	..VOLVOCALES			
	...PHACOTACEAE			
	....PTEROMONAS		110	2
		TOTALS	1,500	20
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		340	5
D	....MELOSIRA		1,300	17
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		230	3
	...NITZSCHIACEAE			
D	....NITZSCHIA		1,700	23
		TOTALS	3,500	48
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		2,500	33
		TOTALS	2,500	33

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.502
CLASS 1.502
ORDER 2.046
FAMILY 2.180
GENERA 2.339

DEC. 3, 1975
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

860 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....MELOSIRA		290	33
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		290	33
	...NITZSCHIACEAE			
D	....NITZSCHIA		290	33
		TOTALS	860	99

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.918
FAMILY 1.585
GENERA 1.585

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JAN. 6, 1976
1400 HOURS

IDENTIFICATION OF PHYTOPLANKTON

610 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
	....ACTINASTRUM		87	14
D	....SCENEDESMUS		220	36
		TOTALS	300	50
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....SYNEDRA		22	4
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		110	18
	...NITZSCHIACEAE			
D	....NITZSCHIA		170	29
		TOTALS	300	51

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.000
CLASS 1.000
ORDER 1.000
FAMILY 1.632
GENERA 2.063

FEB. 2, 1976
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,600 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
D	....OOCYSTIS		580	22
	...SCENEDESMACEAE			
	....SCENEDESMUS		290	11
		TOTALS	860	33
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,600	61
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		140	6
		TOTALS	1,700	67
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
L	....OSCILLATORIA			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.918
CLASS 0.918
ORDER 1.194
FAMILY 1.500
GENERA 1.500

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 1, 1976
1400 HOURS

IDENTIFICATION OF PHYTOPLANKTON

56,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...MICRACTINIACEAE			
D	....MICRACTINIUM		36,000	65
	...OOCYSTACEAE			
L	....WESTELLA			0
	...SCENEDESMACEAE			
	....ACTINASTRUM		7,900	14
	....SCENEDESMUS		4,500	8
	..VOLVOCALES			
	...PHACOTACEAE			
	....PTEROMONAS		1,100	2
		TOTALS	50,000	89
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		3,400	6
	....MELOSIRA		1,100	2
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		1,100	2
	...SURIRELLACEAE			
L	....SURIRELLA			0
		TOTALS	5,700	10

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.475
CLASS	0.475
ORDER	0.690
FAMILY	1.410
GENERA	1.688

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 29, 1976
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

7,800 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....ANKISTRODESMUS			290	4
	...SCENEDESMACEAE				
D	....SCENEDESMUS			1,200	15
			TOTALS	1,400	19
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
	....CYCLOTELLA			860	11
D	....MELOSIRA			2,000	26
	..PENNALES	PENNATE			
	...GOMPHONEMATACEAE				
	....GOMPHONEMA			290	4
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			580	7
	...NITZSCHIACEAE				
D	....NITZSCHIA			2,600	33
			TOTALS	6,300	81

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.691
CLASS 0.691
ORDER 1.501
FAMILY 2.098
GENERA 2.424

APR. 26, 1976
1400 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,100 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....ANKISTRODESMUS			150	3
	...SCENEDESMACEAE				
D	....SCENEDESMUS			1,200	23
			TOTALS	1,300	26
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
	....CYCLOTELLA			220	4
D	....MELOSIRA			820	16
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			520	10
	...NITZSCHIACEAE				
D	....NITZSCHIA			1,600	32
			TOTALS	3,200	62
	CYANOPHYTA	BLUE-GREEN ALGAE			
	.MYXOPHYCEAE				
	..OSCILLATORIALES	FILAMENTOUS			
	...OSCILLATORIACEAE				
	....OSCILLATORIA			590	12
			TOTALS	590	12

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.291
CLASS 1.291
ORDER 1.859
FAMILY 2.325
GENERA 2.477

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JUNE 1, 1976
1500 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,100 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
D	....ANKISTRODESMUS			280	25
			TOTALS	280	25
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			94	8
	...NITZSCHIACEAE				
D	....NITZSCHIA			660	58
			TOTALS	760	66
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....EUGLENA			94	8
			TOTALS	94	8

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.189
CLASS 1.189
ORDER 1.189
FAMILY 1.551
GENERA 1.551

JULY 7, 1976
1400 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,200 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME		CELLS/ML	PER_CENT
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....GYROSIGMA			19	2
			TOTALS	19	2
	CYANOPHYTA	BLUE-GREEN ALGAE			
	.MYXOPHYCEAE				
	..CHROOCOCCALES	COCCOID			
	...CHROOCOCCACEAE				
D	....ANACYSTIS			1,200	98
			TOTALS	1,200	98

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.115
CLASS 0.115
ORDER 0.115
FAMILY 0.115
GENERA 0.115

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 2, 1976
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

17,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		440	3
	...SCENEDESMACEAE			
	....ACTINASTRUM		890	5
	....SCENEDESMUS		670	4
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		110	1
		TOTALS	2,100	13
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		440	3
	....MELOSIRA		780	4
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		1,100	6
		TOTALS	2,300	13
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....ANACYSTIS		11,000	62
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		2,200	13
		TOTALS	13,000	75

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.077
CLASS	1.077
ORDER	1.741
FAMILY	1.829
GENERA	1.984

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 30, 1976
1330 HOURS

IDENTIFICATION OF PHYTOPLANKTON

19,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...MICRACTINIACEAE			
	....MICRACTINIUM		390	2
	...OOCYSTACEAE			
	....ANKISTRODESMUS		190	1
	....DICTYOSPHAERIUM		1,400	7
	....OOCYSTIS		97	1
L	....TETRAEDRON			0
	...SCENEDESMACEAE			
	....ACTINASTRUM		1,200	6
	....SCENEDESMUS		480	3
	..VOLVOCALES			
	...VOLVOCACEAE			
	....PANDORINA		770	4
		TOTALS	4,500	24
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		340	2
	....MELOSIRA		1,400	7
	..PENNALES	PENNATE		
	...DIATOMACEAE			
	....DIATOMA		97	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		97	1
	...NITZSCHIACEAE			
	....NITZSCHIA		1,200	6
		TOTALS	3,100	17
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....AGMENELLUM		11,000	57
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		390	2
		TOTALS	11,000	59
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....TRACHELOMONAS			0
		TOTALS	48	0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.389
CLASS	1.389
ORDER	1.839
FAMILY	2.164
GENERA	2.394

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL (MG/M^2)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
DEC. 31	29	0.3	0.2	0.1	0.3	0.0	280	POLYETHYLENE STRIP
AUG. 30	28	17.1	11.6	5.5	1.51	.19	3600	POLYETHYLENE STRIP

07047800 ST. FRANCIS RIVER AT PARKIN, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	303	523	234	167	278	216	91	439	212	182	377	422
2	322	522	182	161	317	247	80	440	209	165	357	424
3	332	513	169	127	362	272	89	440	221	181	357	418
4	346	513	167	134	398	291	113	448	240	196	381	412
5	357	504	170	143	427	300	136	439	273	202	389	408
6	312	506	203	139	412	273	185	434	275	213	401	449
7	389	406	190	195	381	265	218	430	284	159	412	451
8	395	256	181	242	347	262	249	432	289	134	426	444
9	407	269	209	293	405	186	276	430	278	154	436	465
10	423	273	182	344	430	148	307	429	289	181	436	464
11	456	295	199	372	452	160	325	426	301	197	441	458
12	488	301	188	388	469	163	347	435	328	209	441	440
13	504	333	195	418	469	150	373	454	339	222	440	440
14	513	336	210	435	466	188	375	459	356	240	441	438
15	517	361	225	345	471	227	385	470	368	257	444	439
16	520	379	243	331	480	258	402	479	372	283	464	441
17	516	397	201	372	486	281	416	504	361	284	377	444
18	524	418	220	387	218	301	423	516	300	269	359	447
19	524	441	267	396	119	321	427	519	164	292	390	450
20	527	460	240	404	122	342	435	519	145	319	415	450
21	529	462	264	416	80	359	442	519	164	335	433	446
22	531	471	298	431	74	381	449	521	118	351	435	447
23	531	503	320	446	86	389	454	498	110	361	446	448
24	529	506	373	485	104	370	460	510	118	389	446	465
25	519	515	401	452	115	357	445	523	124	395	448	481
26	517	519	216	339	164	365	427	523	119	387	442	488
27	524	440	154	207	157	379	397	516	108	396	440	482
28	524	422	152	209	172	389	397	444	107	391	436	448
29	522	434	125	177	196	308	420	306	120	393	420	451
30	518	290	131	196	---	161	421	276	142	411	419	488
31	516	---	152	244	---	132	---	186	---	400	417	---
MONTH	466	419	215	303	299	272	332	450	228	276	418	448

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	17.0	10.0	8.5	8.0	16.0	17.5	16.5	22.5	27.0	28.0	26.5
2	19.5	18.0	8.5	8.5	7.5	17.5	18.0	17.0	22.0	26.5	28.0	26.5
3	19.0	18.0	8.5	7.5	7.0	18.5	18.5	19.0	22.0	27.5	27.5	25.5
4	18.5	18.0	8.5	6.0	8.0	19.5	18.5	20.0	23.0	26.5	26.5	25.0
5	19.0	18.5	9.0	4.0	8.0	18.0	17.0	20.0	23.0	26.5	27.0	26.0
6	17.0	19.0	11.5	4.0	6.5	16.0	17.5	20.0	24.5	26.0	28.0	26.5
7	20.0	19.0	11.5	4.5	6.5	16.0	18.0	20.0	24.5	26.5	27.5	26.0
8	20.0	19.0	10.5	2.0	7.0	14.0	18.5	19.0	25.0	27.0	27.5	26.0
9	19.5	19.5	9.5	1.0	9.0	11.5	17.5	21.0	25.5	27.5	27.0	26.0
10	20.0	19.0	9.0	7.5	11.0	12.0	18.5	21.0	26.0	28.0	25.5	24.5
11	24.5	18.0	9.0	5.0	12.5	12.5	18.0	21.5	26.0	28.5	26.0	24.0
12	24.5	16.5	10.0	4.0	12.5	14.0	19.0	23.0	27.0	28.5	27.0	23.5
13	24.0	14.0	10.5	7.5	13.5	13.5	18.5	23.0	27.0	29.0	27.0	25.0
14	24.0	12.0	10.5	7.0	15.0	14.0	19.0	21.0	27.0	29.5	27.5	23.5
15	23.0	12.0	13.5	6.0	15.5	14.5	20.5	20.5	27.5	29.5	29.0	26.5
16	21.5	11.0	10.0	7.0	16.0	14.5	21.0	22.0	27.0	29.5	29.5	26.5
17	19.5	10.5	9.5	6.5	16.5	14.0	22.0	20.0	26.5	28.0	29.0	26.5
18	18.5	10.5	7.0	6.0	16.0	14.5	22.5	21.0	26.5	29.0	28.0	27.0
19	18.0	11.5	6.0	6.0	16.0	15.0	22.0	22.0	24.5	27.5	27.5	26.5
20	16.0	13.0	5.5	6.0	15.5	17.0	22.0	23.5	24.0	28.0	28.0	25.0
21	15.5	10.5	5.0	6.0	13.5	16.5	21.0	24.5	24.0	28.0	28.0	23.0
22	17.0	10.5	4.0	7.0	13.0	17.5	20.0	24.0	24.0	28.5	27.5	21.0
23	16.5	8.5	4.0	8.0	14.0	18.0	20.5	25.0	24.0	28.5	28.0	22.0
24	19.0	9.0	4.5	9.0	13.5	16.5	22.0	23.5	23.5	30.5	28.5	21.0
25	18.5	8.5	5.0	11.0	14.0	16.0	20.0	23.0	23.0	31.0	26.0	22.0
26	17.5	7.5	4.0	10.0	14.0	16.5	18.0	22.0	24.0	31.0	27.0	26.0
27	15.5	6.0	4.0	7.5	15.0	18.0	18.5	20.0	25.5	31.0	27.5	24.5
28	17.5	5.5	5.0	6.5	14.0	17.0	19.0	19.5	25.5	30.0	28.0	23.0
29	17.5	6.0	5.5	6.5	15.0	17.0	18.0	21.0	27.0	30.5	28.5	22.0
30	18.0	12.0	6.0	7.0	---	17.0	17.0	23.0	27.0	29.5	26.5	22.5
31	16.0	---	7.0	7.5	---	17.0	---	23.0	---	29.0	26.0	---
MONTH	19.0	13.5	8.0	6.5	12.0	16.0	19.5	21.5	25.0	28.5	27.5	24.5

07047900 ST. FRANCIS BAY AT RIVERFRONT, AR
(National stream-quality accounting station)

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 35°15'34", long 90°40'48", in W½ sec.4, T.7 N., R.4 E., Cross County, at gaging station on bridge on U.S. Highway 64 at Riverfront, 7.0 mi (11.3 km) west of Parkin.

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 mi^2 (16,770 km^2).

PERIOD OF RECORD.--January 1973 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1973 to current year.
WATER TEMPERATURES: October 1973 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 477 micromhos Sept. 29, 1976; minimum, 74 micromhos Jan. 11, 1974.
WATER TEMPERATURES: Maximum, 31.5°C July 23, 1975; minimum, 0.5°C Jan 3-7, 11-13, 1974.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 477 micromhos Sept. 29; minimum, 94 micromhos Mar. 30.
WATER TEMPERATURES: Maximum, 31.0°C July 25, 26; minimum, 1.0°C Jan 8, 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)
OCT											
01...	1028	1028	234	7.6	18.0	45	<11	B10	100	4	27
NOV											
06...	1028	1028	372	8.1	16.5	25	B100	150	170	7	48
DEC											
03...	1028	1028	245	7.5	10.0	330	--	B6300	94	3	25
JAN											
07...	1028	1028	222	7.5	2.0	70	--	B56	70	11	18
FEB											
03...	1028	1028	160	--	5.0	180	B25	680	70	10	19
MAR											
02...	1028	1028	171	7.9	16.0	150	<33	1500	75	7	20
30...	1028	1028	165	7.9	16.5	320	B4600	B8200	73	6	19
APR											
27...	1028	1028	328	7.9	18.0	50	B75	110	150	0	41
JUN											
01...	1028	1028	245	8.3	22.0	55	590	B2400	100	2	26
JUL											
07...	1028	1028	160	7.2	26.0	160	--	B20	64	7	17
AUG											
03...	1028	1028	232	7.6	25.0	40	B58	84	110	6	29
31...	1028	1028	332	7.9	25.0	20	B22	B27	170	13	45

DATE	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
01...	8.3	5.3	10	.2	2.9	119	0	98	4.8	9.4	6.5
NOV											
06...	12	9.3	11	.3	2.6	198	0	162	2.5	14	13
DEC											
03...	7.6	6.0	12	.3	4.0	111	0	91	5.6	11	6.1
JAN											
07...	6.2	4.0	10	.2	3.4	73	0	60	3.7	13	5.1
FEB											
03...	5.4	3.9	10	.2	2.8	73	0	60	--	12	4.8
MAR											
02...	6.2	4.3	11	.2	2.9	83	0	68	1.7	11	3.3
30...	6.1	5.1	13	.3	2.4	81	0	66	1.6	9.1	4.2
APR											
27...	12	7.8	10	.3	2.3	186	0	153	3.7	14	6.5
JUN											
01...	8.5	7.0	13	.3	2.5	119	0	98	1.0	12	6.6
JUL											
07...	5.2	3.5	10	.2	2.4	69	0	57	7.0	6.3	3.7
AUG											
03...	9.0	4.6	8	.2	1.9	126	0	103	5.1	9.3	4.2
31...	13	8.0	9	.3	1.9	186	0	153	3.7	16	5.5

07047900 ST. FRANCIS BAY AT RIVERFRONT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT										
01...	.1	12	136	130	.19	.06	1.2	1.3	5.6	.17
NOV										
06...	.1	13	215	210	.29	.05	.86	.91	4.0	.14
DEC										
03...	.2	9.3	134	124	.18	.52	--	--	--	.68
JAN										
07...	.1	7.4	98	93	.13	.50	1.5	2.0	8.9	.23
FEB										
03...	.1	7.1	108	91	.15	.62	1.6	2.2	9.8	.34
MAR										
02...	.1	7.4	95	96	.13	.40	1.5	1.9	8.4	.36
30...	.1	6.2	96	92	.13	.33	3.0	3.3	15	.65
APR										
27...	.1	12	201	187	.27	.16	1.0	1.2	5.1	.22
JUN										
01...	.2	11	132	132	.18	1.0	.83	1.8	8.1	.17
JUL										
07...	.2	9.2	96	82	.13	.27	.85	1.1	5.0	.34
AUG										
03...	.1	11	147	131	.20	.07	.67	.74	3.3	.21
31...	.2	15	208	196	.28	.01	.09	.10	.44	.14

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
JAN											
07...	2	2	0	<10	<7	3	10	10	0	<50	<50
APR											
27...	2	1	1	10	9	1	0	0	0	<50	<50
JUL											
07...	--	--	2	1	0	1	20	20	0	2	2

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
JAN											
07...	0	20	12	8	4100	180	<100	<98	2	100	80
APR											
27...	0	10	6	4	3200	30	<100	<99	1	340	310
JUL											
07...	0	15	11	4	6700	70	10	10	0	160	150

07047900 ST. FRANCIS BAY AT RIVERFRONT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED MANGANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUSPENDED MERCURY (HG) (UG/L) (71895)	DISSOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELENIUM (SE) (UG/L) (01147)	SUSPENDED SELENIUM (SE) (UG/L) (01146)	DISSOLVED SELENIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUSPENDED ZINC (ZN) (UG/L) (01091)	DISSOLVED ZINC (ZN) (UG/L) (01090)
JAN										
07...	20	.2	.0	.2	0	0	0	90	60	30
APR										
27...	30	.0	.0	.0	0	0	0	40	30	10
JUL										
07...	10	.1	.1	.0	1	1	0	50	30	20

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	SUSPENDED SEDIMENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT			
01...	--	82	97
NOV			
06...	--	64	98
DEC			
03...	--	576	98
JAN			
07...	5.6	92	97
FEB			
03...	--	177	99
MAR			
02...	--	170	100
30...	--	580	97
APR			
27...	8.1	123	97
JUN			
01...	--	170	99
JUL			
07...	--	192	97
AUG			
03...	--	110	97
31...	--	64	97

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCT. 1, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

6,100 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...MICRACTINIACEAE			
	....GOLENKINIA		43	1
	...OOCYSTACEAE			
	....ANKISTRODESMUS		170	3
	....CHODATELLA		43	1
	...SCENEDESMACEAE			
	....ACTINASTRUM		390	6
	....SCENEDESMUS		260	4
	....TETRASTRUM		350	6
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		43	1
		TOTALS	1,300	22
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,100	18
D	....MELOSIRA		2,400	39
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
L	....SYNEDRA			0
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		170	3
	...NITZSCHIACEAE			
	....NITZSCHIA		170	3
		TOTALS	3,900	63
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....ANACYSTIS		950	16
		TOTALS	950	16

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.312
CLASS	1.312
ORDER	1.632
FAMILY	1.868
GENERA	2.669

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NOV. 6, 1975
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

20,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		610	3
	....DICTYOSPHAERIUM		1,200	6
	....KIRCHNERIELLA		610	3
	...SCENEDESMACEAE			
	....ACTINASTRUM		200	1
	....SCENEDESMUS		2,400	12
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
L	....CHLAMYDOMONAS			0
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....GLOEOACTINIUM		1,200	6
		TOTALS	6,300	31
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		1,200	6
D	....MELOSIRA		5,900	29
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
L	....GYROSIGMA			0
	....NEIDIUM		200	1
	...NITZSCHIACEAE			
	....NITZSCHIA		1,400	7
		TOTALS	8,700	43
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		2,200	11
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		2,800	14
		TOTALS	5,100	25
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....EUGLENA			0
	....TRACHELOMONAS		200	1
		TOTALS	200	1

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.614
CLASS	1.614
ORDER	2.379
FAMILY	2.672
GENERA	3.134

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DEC. 4, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....ANKISTRODESMUS			290	5
			TOTALS	290	5
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....MELOSIRA			2,300	42
	..PENNALES	PENNATE			
	...GOMPHONEMATACEAE				
	....GOMPHONEMA			290	5
	...NAVICULACEAE	NAVICULOID			
D	....NAVICULA			860	16
	...NITZSCHIACEAE				
D	....NITZSCHIA			1,700	32
			TOTALS	5,200	95
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
L	....PHACUS				0
L	....TRACHELOMONAS				0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.297
CLASS	0.297
ORDER	1.236
FAMILY	1.918
GENERA	1.918

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JAN. 7, 1976
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

410 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		41	10
L	....CLOSTERIOPSIS			0
	...SCENEDESMACEAE			
	....CRUCIGENIA		33	8
D	....SCENEDESMUS		110	28
	..TETRASPORALES			
	...PALMELLACEAE			
L	....SPHAEROCYSTIS			0
		TOTALS	190	46
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		98	24
D	....MELOSIRA		73	18
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
L	....SYNEDRA			0
	...GOMPHONEMATACEAE			
	....GOMPHONEIS		16	4
	...NAVICULACEAE	NAVICULOID		
L	....GYROSIGMA			0
	....NAVICULA		8	2
	...NITZSCHIACEAE			
	....NITZSCHIA		24	6
		TOTALS	220	54
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
L	....ANACYSTIS			0
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
L	....OSCILLATORIA			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.995
CLASS	0.995
ORDER	1.408
FAMILY	1.931
GENERA	2.620

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

FEB. 3, 1976
1400 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,400 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
D	....ANKISTRODESMUS		260	19
L	....OOCYSTIS			0
	...SCENEDESMACEAE			
	....ACTINASTRUM		170	12
D	....SCENEDESMUS		300	22
		TOTALS	740	53
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		130	9
	....MELOSIRA		43	3
	..PENNALES	PENNATE		
	...MERIDIONACEAE			
	....MERIDION		43	3
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		43	3
	...NITZSCHIACEAE			
D	....NITZSCHIA		260	19
		TOTALS	520	37
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		87	6
		TOTALS	87	6
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....TRACHELOMONAS		43	3
		TOTALS	43	3

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.422
CLASS	1.422
ORDER	1.766
FAMILY	2.529
GENERA	2.955

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 2, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,100 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
L	....ANKISTRODESMUS			0
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		850	75
D	....MELOSIRA		280	25
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
L	....NITZSCHIA			0
		TOTALS	1,100	100

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
GENERA 0.811

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 30, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

6,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...MICRACTINIACEAE			
D	....MICRACTINIUM		1,600	26
	...OOCYSTACEAE			
	....ANKISTRODESMUS		110	2
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
		TOTALS	1,700	28
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		110	2
D	....MELOSIRA		3,600	60
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....SYNEDRA		110	2
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		340	6
	...SURIRELLACEAE			
	....SURIRELLA		110	2
		TOTALS	4,300	72
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...MALLOMONADACEAE			
L	....MALLOMONAS			0
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....TRACHELOMONAS			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.860
CLASS	0.860
ORDER	1.262
FAMILY	1.492
GENERA	1.614

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APR. 27, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

8,700 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...MICRACTINIACEAE				
	....MICRACTINIUM			410	5
	...SCENEDESMACEAE				
	....SCENEDESMUS			810	9
			TOTALS	1,200	14
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			1,800	21
D	....MELOSIRA			4,300	49
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			410	5
	...NITZSCHIACEAE				
	....NITZSCHIA			810	9
			TOTALS	7,300	84
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....EUGLENA			200	2
			TOTALS	200	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.737
CLASS	0.737
ORDER	1.281
FAMILY	1.538
GENERA	2.153

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JUNE 1, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,400 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...MICRACTINIACEAE				
D	....MICRACTINIUM			370	15
	...OOCYSTACEAE				
	....ANKISTRODESMUS			47	2
	...SCENEDESMACEAE				
D	....SCENEDESMUS			470	19
			TOTALS	890	36
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
	....CYCLOTELLA			93	4
D	....MELOSIRA			790	33
	..PENNALES	PENNATE			
	...FRAGILARIACEAE				
	....ASTERIONELLA			47	2
	...GOMPHONEMATACEAE				
	....GOMPHONEMA			47	2
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			140	6
	...NITZSCHIACEAE				
	....NITZSCHIA			330	13
	...SURIRELLACEAE				
	....SURIRELLA			47	2
			TOTALS	1,500	62
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....EUGLENA			47	2
			TOTALS	47	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.071
CLASS	1.071
ORDER	1.671
FAMILY	2.579
GENERA	2.756

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JULY 7, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

450 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...MICRACTINIACEAE				
D	....MICRACTINIUM			100	22
	...SCENEDESMACEAE				
D	....CRUCIGENIA			100	22
	..TETRASPORALES				
	...COCCOMYXACEAE				
	....ELAKATOTHRIX			50	11
			TOTALS	250	55
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			130	28
	..PENNALES	PENNATE			
	...GOMPHONEMATACEAE				
	....GOMPHONEMA			25	6
	...NAVICULACEAE	NAVICULOID			
	....GYROSIGMA			25	6
			TOTALS	180	40
	EUGLENOPHYTA	EUGLENOIDS			
	.CRYPTOPHYCEAE	CRYPTOMONADS			
	..CRYPTOMONIDALES				
	...CRYPTOCHRYSIDACEAE				
	....CHROOMONAS			25	6
			TOTALS	25	6

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.233
CLASS	1.233
ORDER	1.969
FAMILY	2.525
GENERA	2.525

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 3, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

10,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		110	1
L.	....SELENASTRUM			0
	...SCENEDESMACEAE			
	....SCENEDESMUS		450	4
		TOTALS	570	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		1,000	10
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		680	7
		TOTALS	1,700	17
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....ANACYSTIS		7,700	75
		TOTALS	7,700	75
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....EUGLENA		110	1
	....PHACUS		110	1
	....TRACHELOMONAS		110	1
		TOTALS	340	3

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.135
CLASS	1.135
ORDER	1.295
FAMILY	1.335
GENERA	1.387

07047900 ST. FRANCIS RIVER AT RIVERFRONT, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 31, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

62,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
L	....ANKISTRODESMUS			0
	....CLOSTERIOPSIS		910	1
	....DICTYOSPHAERIUM		3,200	5
L	....POLYDRIOPSIS			0
	...SCENEDESMACEAE			
	....ACTINASTRUM		1,800	3
L	....CRUCIGENIA			0
	....SCENEDESMUS		2,300	4
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
L	....CHLAMYDOMONAS			0
	...VOLVOCACEAE			
	....PANDORINA		3,700	6
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
L	....GLOEOACTINIUM			0
		TOTALS	12,000	19
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		4,600	7
L	....MELOSIRA			0
	...RHIZOSOLENIACEAE			
L	....RHIZOSOLENIA			0
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		2,300	4
		TOTALS	6,900	11
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....AGMENELLUM		15,000	23
D	....ANACYSTIS		22,000	35
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
L	....ANABAENA			0
L	....CYLINDROSPERMUM			0
	...OSCILLATORIACEAE			
	....OSCILLATORIA		6,200	10
	...RIVULARIACEAE			
	....RAPHIDIOPSIS		690	1
		TOTALS	43,000	69
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....EUGLENA			0
L	....TRACHELOMONAS			0
	PYRRHOPHYTA	FIRE ALGAE		
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...GLENODINIACEAE			
L	....GLENODINIUM			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.173
CLASS	1.173
ORDER	1.884
FAMILY	2.071
GENERA	2.776

07047900 ST. FRANCIS BAY AT RIVERFRONT, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	404	192	188	166	148	150	354	242	130	242	349
2	261	406	271	178	162	182	163	355	219	134	216	357
3	271	404	217	171	171	198	172	348	262	149	246	366
4	286	395	242	167	181	219	184	329	275	170	232	317
5	303	399	287	168	195	249	190	330	259	161	215	334
6	370	386	302	168	205	221	210	318	252	145	266	352
7	316	372	123	166	205	225	223	312	249	148	271	343
8	327	375	215	173	224	232	229	313	254	146	288	410
9	325	385	190	182	230	127	234	321	260	136	302	429
10	352	354	176	206	240	133	250	333	268	128	299	425
11	362	357	156	217	255	162	265	346	271	119	306	450
12	372	374	147	230	256	173	258	355	298	118	316	450
13	378	368	150	237	258	183	272	365	303	121	325	450
14	382	360	153	257	262	194	284	370	317	136	317	448
15	386	366	157	276	266	200	292	376	323	156	331	450
16	384	369	199	290	267	212	291	397	322	175	336	453
17	388	374	157	303	262	225	304	374	244	199	344	450
18	389	373	165	312	114	242	311	369	289	220	353	456
19	386	378	166	312	115	253	320	380	121	233	332	455
20	387	371	197	325	147	262	330	393	150	241	366	462
21	385	367	206	323	150	302	336	389	147	251	354	450
22	390	370	229	345	142	237	343	398	142	242	358	456
23	390	364	238	344	141	253	352	394	141	257	339	461
24	396	369	239	350	125	269	356	400	124	254	341	448
25	400	377	244	388	111	279	317	402	97	254	340	404
26	382	380	182	118	104	286	318	403	102	248	344	452
27	398	375	170	146	104	299	335	402	114	236	347	476
28	398	359	161	172	107	305	346	238	120	225	349	469
29	406	354	181	214	119	133	352	134	126	225	327	477
30	404	347	187	182	---	94	354	287	130	286	355	430
31	408	---	184	168	---	113	---	239	---	230	351	---
MONTH	362	374	196	235	182	213	278	346	214	189	313	424

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	17.0	10.5	7.5	6.5	16.0	17.5	17.0	23.0	27.0	27.0	25.5
2	19.0	17.5	8.0	7.0	6.0	17.0	17.5	17.5	21.5	27.0	27.0	25.0
3	18.0	17.0	8.5	6.5	5.5	18.0	18.0	16.5	22.0	27.0	26.5	24.0
4	18.0	17.5	8.5	5.0	6.0	19.0	18.0	16.5	22.5	26.0	25.0	24.0
5	18.0	18.0	9.0	3.5	5.5	18.0	17.5	17.0	23.0	26.0	26.0	26.5
6	17.5	18.0	12.0	3.5	5.0	16.0	18.0	20.0	24.0	26.5	27.0	26.0
7	18.5	18.5	12.0	3.5	5.5	15.0	18.0	18.0	24.5	26.0	26.5	25.0
8	18.5	18.5	10.0	1.0	5.0	13.0	18.0	18.0	25.0	27.0	27.0	25.5
9	18.5	19.5	9.0	1.0	4.0	11.0	17.0	20.0	26.0	27.0	26.5	25.5
10	19.0	19.0	8.5	7.0	5.5	10.5	17.5	20.0	26.0	28.0	24.0	24.0
11	24.5	18.0	8.5	3.0	9.5	12.0	18.5	21.0	26.5	29.0	25.0	23.0
12	25.0	17.0	9.0	2.5	9.5	12.5	18.5	23.0	26.5	29.0	26.0	24.0
13	24.5	14.5	10.0	7.0	11.0	13.5	18.0	22.0	27.0	29.5	26.5	20.5
14	24.0	12.5	11.0	6.0	12.5	13.5	18.5	21.0	26.0	29.0	27.0	20.5
15	23.5	12.0	13.0	5.0	14.0	14.5	20.0	20.0	26.0	29.5	29.0	20.5
16	21.0	12.0	11.5	6.0	15.0	14.5	21.0	22.0	26.0	29.0	29.0	23.0
17	20.0	9.5	9.5	6.0	16.0	14.0	22.0	20.0	25.0	27.0	28.5	23.0
18	18.5	9.5	6.0	5.0	15.5	14.0	22.5	---	26.0	28.0	27.5	23.5
19	18.5	10.5	2.5	5.0	15.5	14.5	21.0	18.0	24.5	26.5	27.5	26.0
20	16.0	12.0	5.0	5.5	14.5	16.0	21.0	19.5	24.0	26.5	28.0	23.5
21	16.0	10.0	3.0	6.0	15.0	17.0	20.0	20.5	24.0	26.5	28.5	20.5
22	16.5	10.0	3.5	6.5	14.0	15.5	19.0	23.0	23.5	27.0	27.5	18.0
23	16.5	8.5	---	7.5	12.0	15.0	19.5	25.5	23.5	27.5	27.0	20.0
24	19.0	8.5	3.5	8.0	12.0	15.5	21.0	23.5	22.5	30.0	26.5	20.0
25	18.0	8.0	4.0	12.0	12.5	15.5	20.0	23.5	23.0	31.0	26.0	20.5
26	17.0	6.5	4.0	9.5	13.0	16.0	18.0	22.0	24.5	31.0	24.0	26.5
27	15.5	6.0	3.5	6.5	14.0	18.0	18.5	20.0	26.0	30.0	25.5	23.5
28	17.0	5.0	4.5	5.5	14.5	17.5	19.0	18.5	27.0	28.0	26.0	21.0
29	17.0	6.0	5.5	5.5	15.0	16.0	17.0	21.0	27.0	30.0	27.5	20.0
30	17.0	12.5	5.5	6.5	---	17.0	16.5	23.0	27.5	28.0	26.0	23.0
31	16.0	---	6.5	6.5	---	17.0	---	23.0	---	28.0	24.0	---
MONTH	19.0	13.0	7.5	5.5	10.5	15.0	19.0	20.5	25.0	28.0	26.5	23.0

07047902 ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, AR

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

07047942 L'ANGUILLE RIVER NEAR COLT, AR

LOCATION.--Lat 35°08'40", long 90°52'42", in NE¼NW¼ sec.15, T.6 N., R.2 E., St. Francis County, near center of span on downstream side of bridge on State Highway 306, 1.1 mi (1.8 km) downstream from Lick Creek, 3.9 mi (6.3 km) northwest of Colt, and at mile 52.8 (85.0 km).

DRAINAGE AREA.--535 mi^2 (1,386 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 192.52 ft (58.680 m) above mean sea level.

REMARKS.--Records good except for days below 10 ft^3/s (0.28 m^3/s), which are poor.

AVERAGE DISCHARGE.--6 years, 766 ft^3/s (21.7 m^3/s), 19.44 in/yr (494 mm/yr), 555,000 acre-ft/yr (684 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft^3/s (323 m^3/s) Apr. 23, 1973, gage height, 15.75 ft (4.801 m), from rating curve extended above 4,300 ft^3/s (122 m^3/s); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Oct. 27, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,120 ft^3/s (117 m^3/s) June 27, gage height, 13.77 ft (4.197 m); minimum, 1.8 ft^3/s (0.051 m^3/s) Oct. 13, 14.

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	582	48	428	1110	1300	1120	1660	343	765	2600	92	342
2	519	46	410	1200	1210	970	1690	284	998	2040	126	348
3	413	44	471	1320	1120	654	1610	219	1090	1620	152	378
4	348	85	516	1260	1000	759	1440	156	1160	1530	166	441
5	258	165	526	1230	930	802	1280	93	1180	1370	180	482
6	160	141	560	1160	922	786	1140	65	1090	1310	190	494
7	87	201	584	1080	836	778	1000	61	971	1270	190	506
8	54	252	591	1020	783	1040	866	43	851	1130	180	517
9	32	280	616	960	738	1840	754	33	751	954	159	517
10	12	289	624	900	690	2030	662	27	672	813	146	520
11	9.3	259	608	728	643	2120	589	27	595	712	136	517
12	4.1	211	586	664	590	2120	523	20	537	638	128	506
13	2.1	157	560	611	540	2040	453	19	464	574	127	490
14	2.9	112	534	558	482	1870	397	23	390	508	124	472
15	5.9	76	525	502	424	1620	327	17	321	434	126	446
16	6.3	48	535	445	366	1420	249	11	292	359	125	414
17	5.3	32	514	392	387	1250	168	15	259	284	136	382
18	8.3	30	514	340	1440	1100	106	33	404	197	147	343
19	5.7	39	523	291	1570	954	72	50	786	121	158	306
20	4.2	43	518	252	2010	830	52	46	1280	89	172	266
21	22	42	494	223	3080	735	41	35	2170	78	177	230
22	22	34	461	200	3130	656	34	24	2500	70	178	190
23	22	23	423	187	3030	591	28	17	2460	67	179	151
24	28	13	382	178	2780	536	70	14	3020	71	185	115
25	36	12	362	286	2370	483	258	19	3700	74	194	87
26	39	30	526	538	1980	431	230	16	4020	82	199	59
27	43	125	555	672	1680	451	344	21	4100	87	214	40
28	49	100	624	1010	1440	388	428	229	3680	79	234	31
29	54	113	766	1390	1280	747	430	337	3250	76	306	26
30	52	289	966	1450	---	1000	396	434	3020	95	334	24
31	50	---	1080	1380	---	1320	---	589	---	83	337	---
TOTAL	2936.1	3339	17382	23537	38751	33641	17297	3320	46776	19415	5497	9640
MEAN	94.7	111	561	759	1336	1085	577	107	1559	626	177	321
MAX	582	289	1080	1450	3130	2120	1690	589	4100	2600	337	520
MIN	2.1	12	362	178	366	388	28	11	259	67	92	24
CFSM	.18	.21	1.05	1.42	2.50	2.03	1.08	.20	2.91	1.17	.33	.60
IN.	.20	.23	1.21	1.64	2.69	2.34	1.20	.23	3.25	1.35	.38	.67
AC-FT	5820	6620	34480	46690	76860	66730	34310	6590	92780	38510	10900	19120

CAL YR 1975 TOTAL 301592.1 MEAN 826 MAX 6810 MIN 2.1 CFSM 1.54 IN 20.97 AC-FT 598200
WTR YR 1976 TOTAL 221531.1 MEAN 605 MAX 4100 MIN 2.1 CFSM 1.13 IN 15.40 AC-FT 439400

07047942 L'ANGUILLE RIVER NEAR COLT, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) (00335)
OCT											
01...	1028	1028	597	225	7.2	--	17.5	25	5.6	61	25
06...	1028	1028	158	--	--	--	16.5	--	--	--	--
NOV											
05...	1028	1028	141	206	6.6	--	18.0	--	--	--	--
19...	1028	1028	39	--	--	--	11.0	--	--	--	--
DEC											
03...	1028	1028	482	209	7.1	--	8.0	280	8.8	70	--
JAN											
01...	1028	1028	1120	--	--	12.0	6.0	--	--	--	--
07...	1028	1028	--	135	7.2	--	2.0	--	11.8	88	46
FEB											
04...	1028	1028	995	97	6.8	--	7.0	--	--	--	42
10...	1028	1028	679	--	--	24.5	7.5	--	--	--	--
MAR											
03...	1028	1028	862	118	7.4	--	16.5	--	5.9	62	--
23...	1028	1028	585	--	--	24.0	15.5	--	--	--	--
31...	1028	1028	1270	90	6.9	--	15.0	--	7.4	76	42
APR											
28...	1028	1028	427	77	6.5	--	15.5	--	6.6	69	41
MAY											
05...	1028	1028	103	--	--	20.0	17.0	--	--	--	--
JUN											
03...	1028	1028	1090	136	--	--	21.5	--	--	--	--
21...	1028	1028	2090	--	--	22.5	22.0	--	--	--	--
30...	1028	1028	3010	--	--	29.0	26.5	--	--	--	--
JUL											
08...	1028	1028	1160	141	7.2	--	24.5	--	4.8	58	--
AUG											
02...	1028	1028	126	--	--	27.5	26.0	--	--	--	--
04...	1028	1028	165	390	7.5	--	23.5	--	5.2	63	--
SEP											
01...	1028	1028	343	540	7.7	--	23.5	--	5.4	65	--
08...	1028	1028	512	--	--	23.0	24.0	--	--	--	--

DATE	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)
OCT											
01...	--	--	B23	89	5	23	7.7	7.6	15	.4	5.2
06...	--	--	--	--	--	--	--	--	--	--	--
NOV											
05...	7.0	B20000	B9500	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
03...	--	--	B7500	60	12	15	5.5	10	24	.6	7.5
JAN											
01...	--	--	--	--	--	--	--	--	--	--	--
07...	--	B120	<11	--	--	--	--	--	--	--	--
FEB											
04...	2.1	B110	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
MAR											
03...	3.5	340	B300	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
31...	2.2	B2100	B1700	--	--	--	--	--	--	--	--
APR											
28...	3.2	2000	980	--	--	--	--	--	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
JUN											
03...	2.8	530	480	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	2.2	--	B680	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	1.4	320	800	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--

07047942 L'ANGUILLE RIVER NEAR COLT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)
OCT											
01...	103	0	84	10	6.8	12	.1	139	125	.19	224
06...	--	--	--	--	--	--	--	--	--	--	--
NOV											
05...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
03...	59	0	48	7.5	14	15	.1	119	106	.16	155

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	SUSPENDED SEDIMENT (MG/L) (80154)	SUSPENDED SEDIMENT DISCHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT									
01...	.04	1.1	1.1	5.0	.15	--	64	103	90
NOV									
05...	.58	3.4	4.0	18	.74	--	--	--	--
DEC									
03...	.21	--	--	--	.36	--	252	328	98
JAN									
07...	.23	2.2	2.4	11	.22	--	--	--	--
FEB									
04...	.29	1.9	2.2	9.7	.27	--	--	--	--
MAR									
03...	.23	2.4	2.6	12	.34	--	--	--	--
31...	.42	2.4	2.8	12	.39	--	--	--	--
APR									
28...	.46	2.0	2.5	11	.41	15	--	--	--
JUN									
03...	.71	.93	1.6	7.3	.13	--	--	--	--
JUL									
08...	.31	1.1	1.4	6.2	.23	--	--	--	--
AUG									
04...	.79	1.2	2.0	8.8	.25	--	--	--	--
SEP									
01...	.11	.51	.62	2.7	.15	--	--	--	--

07047950 L'ANGUILLE RIVER AT PALESTINE, AR

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

07047964 L'ANGUILLE RIVER AT MARIANNA, AR

LOCATION.--Lat 34°47'12", long 90°45'00", in SE¼ sec.11, T.2 N., R.3 E., Lee County, at bridge on U.S. Highway 79, 1.0 mi (1.6 km) northeast of Marianna.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
27...	9827	9827	321	7.6	15.0	16.0	15	15	6.5	65	1.4	570
DEC												
01...	9827	9827	170	7.8	6.0	9.0	200	280	7.8	68	5.4	--
29...	9827	9827	166	7.3	10.0	5.0	300	150	9.7	76	1.3	2500
JAN												
20...	9827	9827	153	7.3	5.0	4.0	160	85	10.5	80	3.1	1000
FEB												
17...	9827	9827	139	7.2	18.0	15.0	300	200	7.6	75	3.0	280
18...	9827	9827	--	--	--	--	--	--	--	--	--	--
MAR												
22...	9827	9827	85	7.3	16.0	16.0	250	190	6.9	69	2.5	400
APR												
28...	9827	9827	357	7.5	18.0	16.0	200	180	5.2	52	3.0	3600
MAY												
19...	9827	9827	388	7.8	24.0	21.0	30	100	5.2	58	4.9	<30
JUN												
21...	9827	9827	259	7.6	26.0	23.0	80	220	5.5	63	2.4	10000
JUL												
26...	9827	9827	435	7.6	33.0	30.0	20	35	5.8	76	4.3	220
AUG												
23...	9827	9827	595	8.0	30.0	26.0	15	45	6.8	83	2.0	900
SEP												
27...	9827	9827	580	7.9	24.0	22.0	25	65	6.1	69	1.4	870

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
27...	45	310	160	0	45	110	11	10	2.9	200	0	164
DEC												
01...	5000	9300	--	--	--	--	--	--	--	--	--	--
29...	730	--	--	--	--	--	--	--	--	--	--	--
JAN												
20...	100	150	--	--	--	--	--	--	--	--	--	--
FEB												
17...	80	80	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	140	88	36	6	9.0	22	3.0	4.6	4.2	37	0	30
APR												
28...	230	--	--	--	--	--	--	--	--	--	--	--
MAY												
19...	70	--	--	--	--	--	--	--	--	--	--	--
JUN												
21...	87	510	100	18	26	64	10	12	5.6	100	0	82
JUL												
26...	<10	150	--	--	--	--	--	--	--	--	--	--
AUG												
23...	28	80	--	--	--	--	--	--	--	--	--	--
SEP												
27...	210	160	310	80	67	170	34	24	3.8	280	0	230

07047964 L'ANGUILLE RIVER AT MARIANNA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
27...	8.0	100	12	231	17	248	.55	.10	<3	<10	0	<10
DEC												
01...	--	--	14	282	350	632	.90	.66	--	--	--	10
29...	--	8.0	16	205	82	287	.45	.28	--	--	--	20
JAN												
20...	--	8.0	14	206	32	238	.25	.18	--	--	--	<10
FEB												
17...	--	11	10	264	129	393	.46	.31	--	--	--	10
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	3.0	5.0	6.5	201	233	434	.48	.50	<3	<10	<3	10
APR												
28...	--	12	11	280	138	418	.56	.28	--	--	--	<10
MAY												
19...	--	26	10	249	43	292	.38	.14	--	--	--	<10
JUN												
21...	4.0	7.0	15	247	127	374	.48	.15	<3	<10	<3	<10
JUL												
26...	--	17	14	249	32	281	.61	.18	--	--	--	10
AUG												
23...	--	20	21	356	87	443	.37	.24	--	<10	--	<10
SEP												
27...	5.6	14	28	336	105	441	.11	.18	--	<10	6	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
27...	560	10	120	40	.00	.00	.00	.00	.00	.00	.00	<1
DEC												
01...	20000	--	760	60	--	--	--	--	--	--	--	--
29...	5500	--	220	30	--	--	--	--	--	--	--	--
JAN												
20...	5200	--	71	20	--	--	--	--	--	--	--	--
FEB												
17...	8500	--	240	20	--	--	--	--	--	--	--	--
18...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
MAR												
22...	9700	<10	200	30	--	--	--	--	--	--	--	--
APR												
28...	9000	--	1200	30	--	--	--	--	--	--	--	--
MAY												
19...	2500	--	1700	<10	--	--	--	--	--	--	--	--
JUN												
21...	7200	40	430	30	.00	.00	.01	.01	.00	.00	.00	<1
JUL												
26...	1500	--	1300	10	.00	.00	.00	.01	.00	.00	.00	<1
AUG												
23...	1800	--	330	10	.00	.00	.00	.01	.00	.00	.00	<1
SEP												
27...	870	<10	220	30	.00	.00	.00	.01	.00	.00	.00	<1

07047968 ST. FRANCIS RIVER NORTH OF HELENA, AR

LOCATION.--Lat 34°39'14", long 90°38'10", in sec.36, T.1 N., R.4 E., Lee County, at Phillips ferry crossing. 10.0 mi (16.1 km) north of Helena.

PERIOD OF RECORD.--October 1971 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
27...	9827	9827	325	7.7	15.0	17.0	15	15	8.1	84	2.7	610
DEC												
01...	9827	9827	330	8.0	6.0	9.0	40	30	9.4	81	3.4	1600
29...	9827	9827	280	7.6	12.0	6.0	80	100	9.5	76	2.0	3000
JAN												
20...	9827	9827	247	7.6	7.0	5.0	60	80	10.5	82	2.7	720
FEB												
17...	9827	9827	340	7.8	19.0	15.0	55	75	8.5	83	2.9	500
18...	9827	9827	--	--	--	--	--	--	--	--	--	--
MAR												
22...	9827	9827	180	7.7	17.0	16.0	150	140	8.3	83	4.3	--
APR												
28...	9827	9827	370	8.0	20.0	18.0	20	35	7.3	77	1.4	620
MAY												
19...	9827	9827	409	8.1	26.0	21.0	30	170	7.9	88	2.5	350
JUN												
21...	9827	9827	172	7.8	27.0	24.0	80	650	4.5	53	4.2	4200
JUL												
26...	9827	9827	320	7.7	35.0	31.0	30	65	6.1	81	4.0	1600
AUG												
23...	9827	9827	449	8.0	31.0	30.0	15	25	9.0	118	3.6	270
SEP												
27...	9827	9827	507	7.9	23.0	24.0	10	40	7.1	84	3.9	790

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
27...	75	2000	140	42	34	86	13	21	3.1	120	0	98
DEC												
01...	460	1100	--	--	--	--	--	--	--	--	--	--
29...	750	--	--	--	--	--	--	--	--	--	--	--
JAN												
20...	110	1000	--	--	--	--	--	--	--	--	--	--
FEB												
17...	160	2400	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	75	70	88	13	23	58	7.0	5.0	4.4	92	0	75
APR												
28...	30	--	--	--	--	--	--	--	--	--	--	--
MAY												
19...	130	--	--	--	--	--	--	--	--	--	--	--
JUN												
21...	1100	1900	100	34	24	60	10	7.0	14	81	--	66
JUL												
26...	<1500	20	--	--	--	--	--	--	--	--	--	--
AUG												
23...	20	33	--	--	--	--	--	--	--	--	--	--
SEP												
27...	35	20	300	79	79	200	24	13	2.5	270	--	221

07047968 ST. FRANCIS RIVER NORTH OF HELENA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
27...	3.8	--	15	234	14	248	.79	.10	<3	<10	0	<10
DEC												
01...	--	16	7.5	223	47	270	.31	.08	--	--	--	<10
29...	--	10	8.5	212	105	317	.34	.19	--	--	--	<10
JAN												
20...	--	12	7.0	209	50	259	.48	.16	--	--	--	<10
FEB												
17...	--	12	6.5	225	121	346	.25	.13	--	--	--	<10
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	2.9	6.0	7.0	183	131	314	.77	.29	<3	<10	<3	<10
APR												
28...	--	12	7.5	238	42	280	.22	.11	--	--	--	<10
MAY												
19...	--	19	9.5	249	112	361	.23	.12	--	--	--	<10
JUN												
21...	2.1	1.0	6.0	195	753	948	.92	.56	<3	<10	<3	20
JUL												
26...	--	13	6.0	194	73	267	.18	.23	--	--	--	--
AUG												
23...	--	13	10	273	38	311	.27	.07	--	<10	--	<10
SEP												
27...	5.4	21	10	295	65	360	<.10	.14	--	<10	7	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
27...	570	<10	74	20	.00	.00	.00	.00	.00	.00	.00	<1
DEC												
01...	2200	--	320	<10	--	--	--	--	--	--	--	--
29...	4300	--	120	10	--	--	--	--	--	--	--	--
JAN												
20...	4200	<10	79	20	--	--	--	--	--	--	--	--
FEB												
17...	3500	--	200	<10	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	.00	<1
MAR												
22...	8300	<10	160	30	--	--	--	--	--	--	--	--
APR												
28...	1900	--	340	<10	--	--	--	--	--	--	--	--
MAY												
19...	3800	--	350	10	--	--	--	--	--	--	--	--
JUN												
21...	26000	<10	540	120	.00	.00	.01	.01	.01	.00	.00	<1
JUL												
26...	--	--	180	<10	.00	.00	.00	.00	.00	.00	.00	<1
AUG												
23...	1100	--	110	<10	.00	.00	.00	.00	.00	.00	.00	<1
SEP												
27...	800	<10	210	20	.00	.00	.00	.00	.00	.00	.00	<1

07047970 MISSISSIPPI RIVER AT HELENA, AR

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

07048000 WEST FORK WHITE RIVER AT GREENLAND, AR

LOCATION.--Lat 35°58'50", long 94°10'25", in NW¼NW¼ sec.16, T.15 N., R.30 W., Washington County, near left bank on downstream side of highway bridge, 800 ft (244 m) upstream from bridge on U.S. Highway 71, 1.0 mi (1.6 km) south of Greenland, 5.5 mi (8.8 km) upstream from small tributary, and at mile 10.5 (16.9 km).

DRAINAGE AREA.--83.1 mi^2 (215.2 km^2).

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 1711: 1957. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,233.00 ft (375.818 m) above mean sea level. Prior to Oct. 20, 1945, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--31 years, 112 ft^3/s (3.17 m^3/s), 18.32 in/yr (465 mm/yr), 81,140 acre-ft/yr (100 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,700 ft^3/s (983 m^3/s) May 6, 1960, gage height, 14.50 ft (4.420 m), in gage well; 13.60 ft (4.145 m), from floodmarks, from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of contracted-opening measurement of peak flow; no flow at times in 1947-48, 1953-54, 1956, 1963-64, 1969-70, 1972, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 6	0300	7,180	203	8.45	2.576
Apr. 20	0945	*9,830	278	9.97	3.039

Minimum discharge, 0.51 ft^3/s (0.014 m^3/s) Aug. 30, 31, Sept. 1, 2, gage height, -0.29 ft (-0.88 m).

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	21	9.7	221	174	22	47	80	139	128	20	2.8	.51
2	24	9.7	160	146	21	44	71	116	91	18	2.6	.51
3	25	11	126	120	20	42	64	92	70	18	2.4	.85
4	23	16	104	102	20	56	59	78	55	34	2.2	1.0
5	20	32	483	87	20	125	54	69	48	25	1.7	1.0
6	18	30	2360	78	21	76	49	111	44	19	2.4	.85
7	16	29	493	76	14	62	46	79	38	16	2.6	.68
8	15	29	300	73	14	580	41	61	32	13	2.2	.85
9	14	27	215	73	15	935	38	51	27	11	1.9	1.0
10	13	44	165	67	17	408	34	48	23	9.8	1.5	1.2
11	12	46	133	52	16	285	32	49	20	8.8	1.4	1.0
12	10	42	112	47	16	502	30	324	17	7.5	1.2	.85
13	9.3	32	96	45	14	297	30	614	15	6.4	1.2	.68
14	7.8	28	94	41	14	230	32	249	12	5.8	1.0	.85
15	5.8	23	224	36	15	191	29	210	12	6.1	1.7	1.0
16	7.2	22	162	34	13	163	29	184	14	6.4	2.2	1.0
17	6.8	20	142	32	14	136	43	148	13	5.4	3.1	1.2
18	6.8	18	114	30	37	117	109	112	15	4.7	2.2	1.4
19	6.8	18	98	29	33	103	206	90	18	4.0	1.5	1.4
20	6.8	224	89	32	31	92	4440	74	15	3.8	1.2	1.5
21	6.4	135	76	31	162	78	1320	61	12	3.3	1.0	1.5
22	6.1	94	68	28	115	67	509	52	11	3.1	1.0	1.5
23	6.1	73	62	26	91	60	303	43	11	2.8	1.0	1.5
24	7.5	56	56	27	74	56	258	59	274	2.6	.85	1.5
25	16	51	67	30	70	54	243	67	259	2.4	.68	1.7
26	15	49	68	29	64	50	173	46	97	1.9	.68	1.7
27	15	47	80	26	57	46	135	176	57	1.9	.68	1.9
28	13	41	110	25	53	43	177	165	39	1.7	.68	1.9
29	12	83	232	24	50	111	221	93	30	4.0	.68	1.9
30	12	390	278	24	---	126	164	71	24	4.7	.51	1.9
31	11	---	216	23	---	94	---	205	---	3.3	.51	---
TOTAL	390.4	1731.4	7225	1659	1164	5276	9019	3936	1522	274.4	47.27	36.33
MEAN	12.6	57.7	233	53.5	40.1	170	301	127	50.7	8.85	1.52	1.21
MAX	25	390	2360	174	162	935	4440	614	274	34	3.1	1.9
MIN	6.1	9.7	56	23	17	42	29	43	11	1.7	.51	.51
CFSM	.15	.69	2.80	.65	.48	2.05	3.62	1.53	.61	.11	.02	.01
IN.	.17	.78	3.23	.75	.52	2.36	4.04	1.76	.68	.12	.02	.02
AC-FT	774	3430	14330	3310	2310	10460	17890	7810	3020	544	94	72

CAL YR 1975	TOTAL	47749.25	MEAN	131	MAX	2770	MIN	.62	CFSM	1.58	IN	21.37	AC-FT	94710
WTR YR 1976	TOTAL	32690.80	MEAN	88.2	MAX	4440	MIN	.51	CFSM	1.06	IN	14.45	AC-FT	64850

07048550 WEST FORK WHITE RIVER EAST OF FAYETTEVILLE, AR

LOCATION.--Lat 36°03'00", long 94°04'42", in NW¼ sec.20, T.16 N., R.29 W., Washington County at bridge on Mally Wagon Road, 0.5 mi (0.8 km) north of State Highway 16, 1.4 mi (2.3 km) upstream from White River and 4.3 mi (6.9 km) east of Fayetteville.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
21...	9827	9827	9.0	151	7.4	19.0	16.0	20	6	7.5
NOV										
24...	9827	9827	84	89	7.6	<1.0	5.0	45	30	11.2
DEC										
17...	9827	9827	174	90	7.5	<2.0	6.0	90	45	11.2
JAN										
27...	9827	9827	37	137	7.7	<5.0	4.0	15	8	12.4
FEB										
24...	9827	9827	114	119	7.6	15.0	9.0	90	40	11.7
MAR										
23...	9827	9827	86	107	7.7	15.0	12.0	25	20	9.9
APR										
20...	9827	9827	6400	127	7.6	20.0	17.0	160	95	8.8
MAY										
24...	9827	9827	85	137	7.6	21.0	21.0	35	30	7.7
JUN										
21...	9827	9827	17	155	7.7	17.0	22.0	20	<25	7.8
JUL										
21...	9827	9827	3.0	218	7.6	27.0	27.0	15	20	7.1
AUG										
18...	9827	9827	2.0	245	7.7	24.0	25.0	20	20	6.6
SEP										
15...	9827	9827	.50	286	7.8	19.0	20.0	10	8	6.6

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
21...	75	3.8	1000	39	--	--	--	--	--	--
NOV										
24...	89	1.8	350	140	500	40	2	13	32	2.0
DEC										
17...	90	1.1	850	550	--	--	--	--	--	--
JAN										
27...	95	1.7	59	13	20	--	--	--	--	--
FEB										
24...	101	2.0	1400	340	310	--	--	--	--	--
MAR										
23...	92	1.7	450	120	40	44	3	16	40	1.0
APR										
20...	89	6.7	--	--	--	--	--	--	--	--
MAY										
24...	86	1.3	--	--	--	--	--	--	--	--
JUN										
21...	88	2.5	1000	160	230	72	15	23	58	3.0
JUL										
21...	88	2.6	460	<5	--	--	--	--	--	--
AUG										
18...	79	3.2	840	110	--	98	16	34	86	3.0
SEP										
15...	72	3.1	80	40	--	160	53	54	130	5.0

07048550 WEST FORK WHITE RIVER EAST OF FAYETTEVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
21...	--	--	--	--	--	--	17	6.0	110	14
NOV										
24...	2.5	1.2	46	0	38	1.8	--	4.0	--	--
DEC										
17...	--	--	--	--	--	--	5.0	5.5	89	44
JAN										
27...	--	--	--	--	--	--	13	5.5	72	7
FEB										
24...	--	--	--	--	--	--	8.0	4.5	96	17
MAR										
23...	2.9	1.1	50	0	41	1.6	8.0	5.0	42	22
APR										
20...	--	--	--	--	--	--	3.0	3.5	127	90
MAY										
24...	--	--	--	--	--	--	9.0	5.5	87	29
JUN										
21...	5.1	1.5	70	0	57	2.2	8.0	6.0	93	21
JUL										
21...	--	--	--	--	--	--	12	7.5	121	36
AUG										
18...	--	--	100	--	82	3.2	19	7.5	137	25
SEP										
15...	6.5	2.6	130	0	107	3.3	16	8.5	162	22

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
21...	124	<.10	.03	--	--	0	<10	500	<10	130
NOV										
24...	--	.32	.05	<3	<10	0	<10	1300	<10	40
DEC										
17...	133	.49	.04	--	--	--	--	--	--	--
JAN										
27...	79	.18	.01	--	--	--	--	--	--	--
FEB										
24...	113	.24	.03	--	--	--	--	--	--	--
MAR										
23...	64	.14	.01	<3	<10	<3	<10	1000	<10	81
APR										
20...	217	.57	.47	--	--	--	--	--	--	--
MAY										
24...	116	.21	.05	--	--	--	--	--	--	--
JUN										
21...	114	.15	.08	<3	<10	<3	<10	690	<10	110
JUL										
21...	157	<.10	.05	--	--	--	--	--	--	--
AUG										
18...	162	.14	.04	--	--	--	<10	820	--	290
SEP										
15...	184	<.10	.06	<3	<10	<3	<10	390	<10	290

07048550 WEST FORK WHITE RIVER EAST OF FAYETTEVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
21...	<10	--	--	--	--	--	--	--	--
NOV									
24...	<10	--	--	--	--	--	--	--	--
DEC									
17...	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
27...	--	--	--	--	--	--	--	--	--
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
23...	<10	--	--	--	--	--	--	--	--
APR									
20...	--	--	--	--	--	--	--	--	--
MAY									
24...	--	--	--	--	--	--	--	--	--
JUN									
21...	<10	--	--	--	--	--	--	--	--
JUL									
21...	--	--	--	--	--	--	--	--	--
AUG									
18...	<10	--	--	--	--	--	--	--	--
SEP									
15...	<10	--	--	--	--	--	--	--	--

07048600 WHITE RIVER NEAR FAYETTEVILLE, AR

LOCATION.--Lat 36°04'23", long 94°04'51", in NE¼SW¼ sec.8, T.16 N., R.29 W., Washington County, on left bank at downstream side of bridge on county road, 0.6 mi (1.0 km) downstream from West Fork White River, 0.8 mi (1.3 km) downstream from Lake Sequoyah Dam on White River, 4.3 mi (6.9 km) east of Fayetteville, and at mile 684.0 (1,100.6 km).

DRAINAGE AREA.--400 mi^2 (1,036 km^2).

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

REVISED RECORDS.--WRD Ark. 1973: Drainage area. WRD Ark. 1974: 1966(M), 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 1,138.25 ft (346.939 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--13 years, 552 ft^3/s (15.6 m^3/s), 18.93 in/yr (481 mm/yr), 399,900 acre-ft/yr (493 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,400 ft^3/s (1,310 m^3/s) Nov. 25, 1963, gage height, 30.29 ft (9.232 m), from rating curve extended above 30,900 ft^3/s (875 m^3/s); minimum, 1.2 ft^3/s (0.034 m^3/s) Sept. 29, 30, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,000 ft^3/s (230 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 6	0500	13,900	394	18.05	5.502
Apr. 20	1000	*14,000	396	18.13	5.526

Minimum discharge, 4.0 ft^3/s (0.11 m^3/s) July 27, 28.

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	105	32	967	1080	129	225	329	590	395	157	30	8.5
2	119	42	679	853	125	211	298	471	307	144	23	8.5
3	122	37	515	692	123	196	274	387	250	157	19	8.8
4	108	221	416	555	118	221	255	324	207	359	17	9.0
5	97	363	1460	466	116	385	239	286	185	316	17	9.0
6	87	276	9310	425	114	275	227	374	174	228	21	9.0
7	79	225	2530	395	109	230	215	322	155	177	18	9.0
8	71	192	1530	336	104	1610	199	256	136	145	16	9.0
9	62	170	1070	294	104	3900	184	219	117	119	16	9.0
10	60	195	808	279	99	2090	172	202	100	99	15	9.0
11	56	203	648	283	102	1420	162	217	86	82	14	9.0
12	52	171	533	260	105	2010	156	234	76	68	13	9.0
13	46	154	453	244	103	1450	157	2220	65	57	13	9.0
14	42	141	404	223	104	1120	162	1010	56	50	13	7.2
15	35	129	1040	203	101	924	155	951	46	43	21	8.5
16	36	119	1040	187	100	776	136	911	52	47	30	12
17	34	109	769	178	109	636	161	714	56	39	18	12
18	32	101	595	165	135	544	233	537	69	33	16	11
19	31	112	489	157	144	473	562	417	80	31	15	13
20	31	488	434	162	141	407	10000	349	113	27	14	14
21	30	463	383	157	485	368	6470	294	93	25	12	13
22	34	347	342	150	453	319	2550	253	77	25	12	13
23	33	286	314	146	368	288	1600	234	160	24	11	13
24	44	236	288	142	337	270	1430	228	713	23	11	13
25	77	220	325	145	306	268	1390	246	1680	23	11	12
26	57	217	338	148	288	251	964	194	601	17	10	12
27	51	195	363	147	265	246	749	644	394	4.3	10	18
28	39	185	462	142	248	224	805	892	293	4.4	8.6	14
29	40	301	2110	140	233	645	1050	501	234	41	8.5	11
30	40	1500	2030	137	---	556	724	365	186	29	8.5	10
31	35	---	1450	133	---	385	---	429	---	41	8.5	---
TOTAL	1785	7432	34095	9024	5284	22923	32008	15271	7156	2634.7	470.1	322.5
MEAN	57.6	248	1100	291	182	739	1067	493	239	85.0	15.2	10.8
MAX	122	1500	9310	1080	485	3900	10000	2220	1680	359	30	18
MIN	30	32	288	133	99	196	136	194	46	4.3	8.5	7.2
CFSM	.14	.62	2.75	.73	.46	1.85	2.67	1.23	.60	.21	.04	.03
IN.	.17	.69	3.17	.84	.49	2.13	2.98	1.42	.67	.25	.04	.03
AC-FT	3540	14740	67630	17900	10480	45470	63490	30290	14190	5230	932	640

CAL YR 1975 TOTAL 214714.0 MEAN 588 MAX 9310 MIN 3.9 CFSM 1.47 IN 19.97 AC-FT 425900
WTR YR 1976 TOTAL 138405.3 MEAN 378 MAX 10000 MIN 4.3 CFSM .95 IN 12.87 AC-FT 274500

07048700 WHITE RIVER NEAR GOSHEN, AR

LOCATION.--Lat 36°06'21", long 94°00'41", in NE¼NW¼ sec.31, T.17 N., R.28 W., Washington County, at bridge on State Highway 45, 0.2 mi (0.3 km) upstream from Richland Creek, and 1.2 mi (1.9 km) west of Goshen.

DRAINAGE AREA.--412 mi^2 (1,067 km^2).

PERIOD OF RECORD.--July 1969 to July 1973, April 1974 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	DIS-CHARGE (CFS) (00060)	INSTAN-TANEOUS DIS-CHARGE (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER-ATURE (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
OCT										
21...	9827	9827	--	--	30	189	7.4	19.0	17.0	25
NOV										
24...	9827	9827	--	--	238	84	7.4	<1.0	6.0	40
DEC										
15...	810	--	--	--	--	--	--	--	--	--
15...	810	1028	.0	--	--	--	--	--	--	--
15...	810	1028	4.0	--	--	93	--	--	--	--
15...	810	810	4.0	--	--	80	6.7	--	6.5	20
17...	9827	9827	--	--	795	68	7.5	<3.0	6.0	80
JAN										
27...	9827	9827	--	--	147	121	7.5	8.0	4.0	20
FEB										
24...	9827	9827	--	--	337	103	7.5	13.0	11.0	55
MAR										
02...	810	--	--	--	--	--	--	--	--	--
02...	810	1028	.0	--	--	--	--	--	--	--
02...	810	1028	1.6	--	--	102	--	--	--	--
02...	810	810	1.5	--	--	95	6.2	--	15.5	12
02...	810	1028	6.4	--	--	108	--	--	--	--
02...	810	810	6.5	--	--	95	6.2	--	15.5	30
23...	9827	9827	--	--	285	93	7.5	15.0	15.0	25
APR										
20...	9827	9827	--	10000	--	82	7.4	17.0	18.0	240
MAY										
24...	9827	9827	--	--	195	95	7.3	19.0	22.0	35
JUN										
21...	9827	9827	--	--	91	130	7.6	18.0	23.0	30
JUL										
20...	810	--	--	--	--	--	--	--	--	--
20...	810	1028	.0	--	--	--	--	--	--	--
20...	810	1028	3.0	--	--	137	--	--	--	--
20...	810	810	3.0	--	--	160	7.3	--	26.5	8
21...	9827	9827	--	--	25	202	7.4	30.0	28.0	15
AUG										
18...	9827	9827	--	--	16	267	7.5	25.0	26.0	20
SEP										
15...	9827	9827	--	--	8.5	426	7.7	20.0	22.0	15

07048700 WHITE RIVER NEAR GOSHEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
OCT										
21...	10	--	3.8	39	1.3	180	26	--	--	--
NOV										
24...	30	--	10.6	83	1.2	<17	<4	<4	32	0
DEC										
15...	--	216	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	38	--	--	--
15...	--	--	--	--	.2	--	--	--	--	--
15...	50	--	9.8	--	--	--	--	--	36	--
17...	55	--	10.8	86	1.1	180	16	--	--	--
JAN										
27...	15	--	11.3	85	2.8	2600	200	56	--	--
FEB										
24...	30	--	10.5	94	2.4	<10	<4	<4	--	--
MAR										
02...	--	18	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	14	--	--	--
02...	--	--	--	--	7.8	--	--	--	--	--
02...	40	--	8.2	--	--	--	--	--	48	--
02...	--	--	--	--	7.7	--	--	--	--	--
02...	45	--	8.3	--	--	--	--	--	44	--
23...	30	--	10.1	99	1.6	300	<4	<4	32	0
APR										
20...	470	--	8.7	92	5.2	--	--	--	--	--
MAY										
24...	<25	--	7.4	84	2.6	--	--	--	--	--
JUN										
21...	<25	--	5.5	63	3.7	1100	170	260	54	11
JUL										
20...	--	24	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	33	--	--	--
20...	--	--	--	--	2.0	--	--	--	--	--
20...	22	--	6.3	--	--	--	--	--	58	--
21...	15	--	5.7	71	4.4	260	120	--	--	--
AUG										
18...	20	--	2.9	35	6.4	310	47	--	84	4
SEP										
15...	10	--	3.7	42	9.4	13	40	--	140	17

DATE	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
21...	--	--	--	--	--	--	--	--	--	--
NOV										
24...	11	28	1.0	3.6	1.5	43	0	35	2.7	23
DEC										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	1.4	--	--	--	--	6.9
15...	--	30	--	--	--	--	--	30	--	--
17...	--	--	--	--	--	--	--	--	--	3.0
JAN										
27...	--	--	--	--	--	--	--	--	--	11
FEB										
24...	--	--	--	--	--	--	--	--	--	7.0
MAR										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	1.2	--	--	--	--	11
02...	--	30	--	--	--	--	--	30	--	--
02...	--	--	--	--	1.4	--	--	--	--	11
02...	--	30	--	--	--	--	--	32	--	--
23...	12	30	<1.0	3.2	1.2	40	0	33	2.0	7.0
APR										
20...	--	--	--	--	--	--	--	--	--	2.0
MAY										
24...	--	--	--	--	--	--	--	--	--	3.0
JUN										
21...	16	40	3.0	5.9	1.7	52	0	43	2.1	8.0
JUL										
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	2.2	--	--	--	--	12
20...	--	52	--	--	--	--	--	54	--	--
21...	--	--	--	--	--	--	--	--	--	13
AUG										
18...	26	64	5.0	--	--	98	0	80	5.0	19
SEP										
15...	40	100	9.0	30	6.8	150	0	123	4.8	19

07048700 WHITE RIVER NEAR GOSHEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO-GEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)
OCT										
21...	12	143	25	168	1.4	--	--	--	--	--
NOV										
24...	4.0	--	--	--	.51	--	--	--	--	--
DEC										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	3.0	--	--	--	--	.52	.16	.35	.51	1.0
15...	--	--	--	--	--	--	--	--	--	--
17...	7.0	79	24	103	.71	--	--	--	--	--
JAN										
27...	7.5	66	7	73	.63	--	--	--	--	--
FEB										
24...	5.0	76	26	102	.53	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	4.2	--	--	--	--	.43	.28	.92	1.2	1.6
02...	--	--	--	--	--	--	--	--	--	--
02...	4.4	--	--	--	--	.42	.35	1.1	1.4	1.8
02...	--	--	--	--	--	--	--	--	--	--
23...	5.0	42	43	85	.42	--	--	--	--	--
APR										
20...	3.5	136	496	632	1.0	--	--	--	--	--
MAY										
24...	4.5	68	18	86	.42	--	--	--	--	--
JUN										
21...	6.5	81	17	98	.47	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	8.9	--	--	--	--	1.3	.15	1.2	1.3	2.6
20...	--	--	--	--	--	--	--	--	--	--
21...	9.0	114	28	142	1.2	--	--	--	--	--
AUG										
18...	15	146	25	171	.82	--	--	--	--	--
SEP										
15...	30	--	--	--	1.2	--	--	--	--	--

DATE	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)
OCT											
21...	--	.74	--	--	--	--	--	--	--	--	--
NOV											
24...	--	.20	--	--	<3	<10	0	300	1300	20	140
DEC											
15...	4.6	.15	.11	810	2	--	0	120	1900	<100	180
17...	--	.08	--	--	--	--	--	--	--	--	--
JAN											
27...	--	.49	--	--	--	--	--	--	--	--	--
FEB											
24...	--	.20	--	--	--	--	--	--	--	--	--
MAR											
02...	7.2	.23	.13	560	1	--	10	140	1500	<100	170
02...	8.1	.19	.09	1300	1	--	0	140	1300	<100	170
23...	--	.12	--	--	<3	<10	<3	160	1200	30	110
APR											
20...	--	.44	--	--	--	--	--	--	--	--	--
MAY											
24...	--	.17	--	--	--	--	--	--	--	--	--
JUN											
21...	--	.24	--	--	<3	<10	<3	<10	1900	<10	190
JUL											
20...	12	.42	.30	350	3	--	0	220	740	<100	350
21...	--	.35	--	--	--	--	--	--	--	--	--
AUG											
18...	--	1.3	--	--	<3	<10	--	<10	780	--	850
SEP											
15...	--	2.5	--	--	<3	<10	<3	<10	1100	<10	1800

07048700 WHITE RIVER NEAR GOSHEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT											
21...	--	--	--	--	--	--	--	--	--	--	--
NOV											
24...	--	--	140	--	--	--	--	--	--	--	--
DEC											
15...	.0	50	120	--	--	--	--	--	--	--	--
17...	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
02...	.0	<50	290	--	--	--	--	--	--	--	--
02...	.1	<50	160	--	--	--	--	--	--	--	--
23...	--	--	110	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	<10	--	--	--	--	--	--	--	--
JUL											
20...	.0	<50	190	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	--	--	<10	--	--	--	--	--	--	--	--
SEP											
15...	--	--	<10	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, at dam on White River, 6.0 mi (9.7 km) west of Eureka Springs, and at mile 609.0 (979.9 km).
DRAINAGE AREA.--1,192 mi^2 (3,087 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1963 to current year. Prior to October 1969, published as Beaver Reservoir near Eureka Springs.
REVISED RECORDS.--WRD Ark. 1973: Drainage area.
GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Corps of Engineers).
REMARKS.--Lake is formed by a combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began on Dec. 26, 1963, and bottom of power pool was first reached May 13, 1965. Capacity between elevations, 1,120.00 ft (341.376 m) and 1,130.00 ft (344.424 m) is 299,600 acre-ft (369 hm^3), and is reserved for flood-control storage. Lake is used for flood-control, power-development, water-supply, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates and designated flood-control pool	1,130.00 (344.424 m)	1,951,500 (2.41 km^3)
Top of designated power pool	1,120.00 (341.376 m)	1,651,900 (2.04 km^3)
Crest of gated spillway	1,093.00 (333.146 m)	1,007,200 (1.24 km^3)
Bottom of designated power pool	1,077.00 (328.270 m)	726,800 (896 hm^3)
Bottom of lowest outlet	938.06 (285.921 m)	1,310 (1.62 hm^3)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,957,000 acre-ft (2.41 km^3) June 10, 1974, elevation, 1,130.16 ft (344.473 m); minimum since bottom of power pool was first reached, 772,800 acre-ft (953 hm^3) Dec. 6-8, 1965, elevation, 1,079.90 ft (329.154 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,667,000 acre-ft (2.06 km^3) May 17, elevation, 1,120.52 ft (341.534 m); minimum, 1,355,000 acre-ft (1.67 km^3) Dec. 4, elevation, 1,108.73 ft (337.941 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

1,108	1,337	1,115	1,515
1,110	1,386	1,121	1,680

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1472000	1446000	1360000	1455000	1434000	1413000	1500000	1644000	1634000	1591000	1513000	1412000
2	1472000	1446000	1356000	1458000	1429000	1414000	1502000	1646000	1636000	1596000	1512000	1412000
3	1472000	1446000	1355000	1460000	1427000	1411000	1503000	1644000	1633000	1605000	1511000	1409000
4	1472000	1444000	1357000	1461000	1421000	1414000	1504000	1645000	1630000	1612000	1509000	1408000
5	1472000	1446000	1365000	1464000	1415000	1412000	1503000	1646000	1631000	1616000	1509000	1408000
6	1472000	1445000	1408000	1464000	1411000	1413000	1502000	1649000	1632000	1618000	1507000	1408000
7	1472000	1446000	1420000	1455000	1411000	1414000	1500000	1649000	1633000	1618000	1507000	1401000
8	1470000	1446000	1427000	1448000	1412000	1418000	1497000	1651000	1632000	1616000	1507000	1400000
9	1470000	1447000	1432000	1444000	1413000	1432000	1498000	1652000	1630000	1613000	1503000	1399000
10	1468000	1447000	1436000	1446000	1411000	1443000	1498000	1653000	1625000	1612000	1500000	1398000
11	1469000	1445000	1439000	1446000	1412000	1450000	1498000	1653000	1619000	1612000	1498000	1398000
12	1469000	1442000	1441000	1449000	1412000	1456000	1495000	1654000	1618000	1607000	1492000	1397000
13	1466000	1438000	1444000	1449000	1411000	1461000	1494000	1656000	1617000	1600000	1486000	1394000
14	1463000	1435000	1446000	1449000	1412000	1466000	1493000	1658000	1609000	1593000	1484000	1394000
15	1462000	1435000	1447000	1450000	1413000	1470000	1489000	1662000	1602000	1587000	1484000	1391000
16	1461000	1435000	1450000	1448000	1412000	1470000	1489000	1665000	1594000	1584000	1478000	1388000
17	1461000	1427000	1449000	1448000	1410000	1471000	1490000	1661000	1587000	1584000	1470000	1384000
18	1459000	1420000	1447000	1449000	1407000	1474000	1491000	1658000	1585000	1584000	1462000	1384000
19	1459000	1414000	1439000	1446000	1405000	1476000	1493000	1652000	1585000	1580000	1453000	1384000
20	1459000	1405000	1438000	1446000	1408000	1478000	1559000	1647000	1585000	1574000	1447000	1384000
21	1457000	1396000	1439000	1446000	1408000	1479000	1593000	1640000	1580000	1566000	1443000	1383000
22	1452000	1396000	1432000	1444000	1408000	1479000	1604000	1635000	1574000	1560000	1442000	1382000
23	1449000	1397000	1424000	1444000	1409000	1480000	1606000	1632000	1586000	1553000	1436000	1380000
24	1450000	1387000	1423000	1444000	1410000	1482000	1615000	1625000	1589000	1552000	1433000	1377000
25	1448000	1376000	1424000	1444000	1410000	1483000	1621000	1619000	1602000	1552000	1430000	1376000
26	1448000	1368000	1423000	1442000	1410000	1484000	1625000	1616000	1604000	1544000	1427000	1376000
27	1447000	1362000	1424000	1441000	1411000	1485000	1628000	1617000	1606000	1535000	1423000	1374000
28	1447000	1358000	1426000	1438000	1412000	1486000	1631000	1624000	1600000	1528000	1422000	1374000
29	1447000	1360000	1434000	1437000	1413000	1494000	1637000	1627000	1596000	1525000	1421000	1374000
30	1447000	1362000	1444000	1434000	---	1495000	1640000	1631000	1592000	1518000	1416000	1371000
31	1447000	---	1449000	1434000	---	1498000	---	1632000	---	1514000	1413000	---
MAX	1472000	1447000	1450000	1464000	1434000	1498000	1640000	1665000	1636000	1618000	1513000	1412000
MIN	1447000	1358000	1355000	1434000	1405000	1411000	1489000	1616000	1574000	1514000	1413000	1371000
(†)	1112.38	1109.02	1112.49	1111.90	1111.05	1114.36	1119.57	1119.29	1117.86	1114.95	1111.08	1109.37
(‡)	-25000	-85000	+87000	-15000	-21000	+85000	+142000	-8000	-40000	-78000	-101000	-42000

CAL YR 1975 MAX 1796000 MIN 1355000 ‡ -240000
WTR YR 1976 MAX 1665000 MIN 1355000 ‡ -101000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-71, 1973, December 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC											
16...	810	--	--	--	--	--	--	--	--	--	--
16...	810	1028	.0	--	--	--	0	--	--	--	--
16...	810	810	10	10	5	--	--	62	50	--	54
16...	810	1028	25	--	--	.4	--	--	--	2.3	--
16...	810	810	25	0	0	--	--	58	46	--	54
16...	810	810	50	5	0	--	--	60	50	--	54
16...	810	810	75	30	4	--	--	60	52	--	54
16...	810	810	100	0	0	--	--	58	50	--	54
16...	810	1028	100	--	--	.4	--	--	--	1.4	--
16...	810	810	125	10	5	--	--	60	52	--	54
16...	810	810	150	10	5	--	--	54	46	--	52
16...	810	810	175	0	5	--	--	58	48	--	56

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
DEC										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	4.7	2.6	.13	.00	.22	.22	.35	1.6	.07	.04
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	5.3	2.2	.18	.01	.29	.30	.48	2.1	.00	.00
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
DEC										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	50	0	0	110	20	<100	20	.0	<50	130
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	50	0	0	160	0	<100	20	.0	50	150
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
MAR											
01...	810	1028	.0	--	--	--	0	--	--	--	--
01...	810	--	--	--	--	--	--	--	--	--	--
01...	810	810	25	5	8	--	--	68	50	--	50
01...	810	1028	25	--	--	3.6	--	--	--	1.9	--
01...	810	1028	100	--	--	3.5	--	--	--	1.0	--
01...	810	810	100	0	2	--	--	68	48	--	52

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
MAR										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	6.4	2.4	.23	.08	.72	.80	1.0	4.6	.01	.00
01...	7.6	3.1	.25	.08	.48	.56	.81	3.6	.02	.01
01...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
MAR										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	90	0	0	90	150	<100	50	.1	<50	150
01...	60	0	0	90	180	<100	80	.0	<50	130
01...	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	ALKA-LINITY AS CACO3 (MG/L) (00410)
JUL											
20...	810	1028	.0	--	--	--	0	--	--	--	--
20...	810	--	--	--	--	--	--	--	--	--	--
20...	810	1028	25	--	--	.2	--	--	--	1.2	--
20...	810	810	25	0	0	--	--	64	52	--	76
20...	810	1028	100	--	--	.2	--	--	--	1.1	--
20...	810	810	100	4	2	--	--	62	52	--	56

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO-GEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)
JUL										
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	6.4	3.7	.18	.06	.91	.97	1.2	5.1	.02	.00
20...	--	--	--	--	--	--	--	--	--	--
20...	6.4	3.2	.19	.03	.51	.54	.73	3.2	.02	.02
20...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
JUL										
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	50	1	0	170	20	<100	30	.0	<50	170
20...	--	--	--	--	--	--	--	--	--	--
20...	40	1	0	210	20	<100	60	.0	<50	180
20...	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT								
14...	1028	--	--	--	--	--	162	--
14...	1028	1028	.0	122	8.3	22.0	--	8.2
14...	1028	1028	10	122	8.4	22.0	--	7.9
14...	1028	1028	15	125	8.5	20.0	--	7.6
14...	1028	1028	20	128	8.5	19.5	--	7.6
14...	1028	1028	25	121	8.5	20.0	--	7.4
14...	1028	1028	30	123	8.5	19.0	--	7.2
14...	1028	1028	35	127	8.2	18.0	--	6.8
14...	1028	1028	40	127	8.1	18.0	--	6.3
14...	1028	1028	45	117	7.5	17.5	--	4.0
14...	1028	1028	50	131	7.3	12.0	--	3.1
14...	1028	1028	55	110	7.2	10.0	--	3.2
14...	1028	1028	60	116	7.2	8.0	--	4.0
14...	1028	1028	70	111	7.2	7.5	--	4.3
14...	1028	1028	80	102	7.2	8.0	--	2.1
14...	1028	1028	90	102	7.2	8.0	--	2.0
14...	1028	1028	100	102	7.2	8.0	--	1.8
14...	1028	1028	110	102	7.2	8.0	--	1.8
14...	1028	1028	120	102	7.0	8.0	--	1.7
14...	1028	1028	130	102	7.0	8.0	--	1.7
14...	1028	1028	140	102	6.9	8.0	--	1.6
14...	1028	1028	150	96	6.9	7.5	--	1.6
14...	1028	1028	160	96	6.9	7.5	--	1.6
14...	1028	1028	170	96	6.8	7.5	--	1.6
14...	1028	1028	175	104	7.6	7.5	--	1.6
NOV								
18...	1028	--	--	--	--	--	192	--
18...	1028	1028	.0	115	7.8	15.0	--	8.4
18...	1028	1028	10	114	--	16.0	--	8.6
18...	1028	1028	20	115	--	15.0	--	8.8
18...	1028	1028	30	115	7.5	15.0	--	8.8
18...	1028	1028	40	115	--	15.0	--	8.8
18...	1028	1028	50	115	--	15.0	--	8.8
18...	1028	1028	60	115	7.1	15.0	--	8.8
18...	1028	1028	65	112	--	14.5	--	7.8
18...	1028	1028	70	121	--	11.5	--	3.7
18...	1028	1028	75	114	--	11.0	--	3.7
18...	1028	1028	80	109	--	10.5	--	4.0
18...	1028	1028	90	110	7.2	10.0	--	4.6
18...	1028	1028	100	110	--	10.0	--	4.8
18...	1028	1028	110	104	--	10.0	--	4.7
18...	1028	1028	120	104	7.1	9.5	--	4.4
18...	1028	1028	130	106	--	9.0	--	3.8
18...	1028	1028	140	106	--	9.0	--	3.0
18...	1028	1028	150	106	7.2	9.0	--	2.2
18...	1028	1028	160	107	--	8.5	--	1.4
18...	1028	1028	170	107	--	8.5	--	.9
18...	1028	1028	180	107	7.2	8.5	--	.8
18...	1028	1028	190	114	--	8.5	--	.8
DEC								
16...	810	--	--	--	--	--	132	--
16...	810	1028	.0	--	--	--	--	--
16...	810	810	10	115	6.2	10.0	--	9.5
16...	810	1028	25	131	--	--	--	--
16...	810	810	25	120	6.4	10.0	--	9.5
16...	810	810	50	120	6.4	10.0	--	9.4
16...	810	810	75	120	6.0	10.5	--	8.6
16...	810	810	100	120	6.3	10.0	--	9.3
16...	810	1028	100	130	--	--	--	--
16...	810	810	125	--	6.1	9.5	--	1.0
16...	810	810	150	--	6.3	9.0	--	.7
16...	810	810	175	--	6.1	11.0	--	.7
16...	1028	--	--	--	--	--	168	--
16...	1028	1028	.0	117	6.2	10.0	--	9.0
16...	1028	1028	10	117	6.2	10.0	--	9.0
16...	1028	1028	20	117	6.3	10.0	--	9.0
16...	1028	1028	30	117	6.3	10.0	--	9.0
16...	1028	1028	40	117	6.2	10.0	--	9.2
16...	1028	1028	50	117	6.1	10.0	--	9.2
16...	1028	1028	60	117	6.0	10.0	--	9.1
16...	1028	1028	70	117	5.9	10.0	--	8.8
16...	1028	1028	80	117	6.0	10.0	--	8.5
16...	1028	1028	90	117	6.0	10.0	--	8.4
16...	1028	1028	100	117	6.0	10.0	--	7.4
16...	1028	1028	105	117	6.0	10.0	--	6.0
16...	1028	1028	110	118	5.8	9.5	--	3.9
16...	1028	1028	120	114	5.7	9.0	--	3.1
16...	1028	1028	130	114	5.7	8.5	--	2.0
16...	1028	1028	140	116	5.7	8.0	--	.9
16...	1028	1028	150	116	5.7	8.0	--	.7

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)
DEC								
16...	1028	1028	160	116	5.7	8.0	--	.6
16...	1028	1028	170	116	5.7	8.0	--	.5
16...	1028	1028	180	116	5.7	8.0	--	.5
16...	1028	1028	190	116	5.7	8.0	--	.5
16...	1028	1028	195	116	5.7	8.0	--	.4
JAN								
20...	1028	--	--	--	--	--	108	--
20...	1028	1028	.0	116	7.2	6.0	--	10.0
20...	1028	1028	10	116	7.2	6.0	--	10.0
20...	1028	1028	20	119	7.2	5.0	--	10.0
20...	1028	1028	30	116	7.2	5.5	--	10.0
20...	1028	1028	40	116	7.1	6.0	--	10.0
20...	1028	1028	50	116	7.1	6.0	--	10.0
20...	1028	1028	60	116	7.1	6.0	--	10.0
20...	1028	1028	70	116	7.1	5.5	--	10.2
20...	1028	1028	80	116	7.2	5.5	--	10.4
20...	1028	1028	90	116	7.2	6.0	--	10.2
20...	1028	1028	100	116	7.2	6.0	--	10.2
20...	1028	1028	110	116	7.2	6.0	--	10.2
20...	1028	1028	120	116	7.2	6.0	--	10.2
20...	1028	1028	130	116	7.2	6.0	--	10.2
20...	1028	1028	140	116	7.2	6.0	--	10.2
20...	1028	1028	150	116	7.2	6.0	--	10.2
20...	1028	1028	160	116	7.2	5.0	--	10.0
20...	1028	1028	170	116	7.2	5.0	--	10.0
20...	1028	1028	180	119	7.2	5.0	--	10.0
20...	1028	1028	185	119	7.2	5.0	--	9.5
FEB								
24...	1028	--	--	--	--	--	126	--
24...	1028	1028	.0	116	8.0	9.0	--	11.2
24...	1028	1028	10	116	8.0	9.0	--	11.2
24...	1028	1028	20	116	8.0	9.0	--	11.0
24...	1028	1028	30	116	8.0	9.0	--	11.0
24...	1028	1028	40	117	7.9	8.5	--	10.7
24...	1028	1028	50	117	7.9	8.5	--	11.7
24...	1028	1028	60	116	7.8	8.0	--	10.7
24...	1028	1028	80	116	7.7	8.0	--	10.6
24...	1028	1028	100	118	7.6	7.5	--	10.6
24...	1028	1028	120	118	7.6	7.0	--	10.6
24...	1028	1028	140	118	7.5	7.0	--	10.5
24...	1028	1028	160	118	7.5	7.0	--	10.5
24...	1028	1028	180	118	7.5	7.0	--	10.2
24...	1028	1028	190	119	7.5	6.5	--	10.2
MAR								
01...	810	1028	.0	--	--	--	--	--
01...	810	--	--	--	--	--	156	--
01...	810	810	25	--	7.4	10.0	--	11.5
01...	810	1028	25	131	--	--	--	--
01...	810	1028	100	133	--	--	--	--
01...	810	810	100	122	7.4	8.0	--	11.2
23...	1028	--	--	--	--	--	276	--
23...	1028	1028	.0	122	8.2	10.5	--	10.6
23...	1028	1028	5.0	122	8.3	10.5	--	10.6
23...	1028	1028	10	128	8.2	9.0	--	10.2
23...	1028	1028	20	124	8.2	10.0	--	10.6
23...	1028	1028	30	125	8.2	9.0	--	10.6
23...	1028	1028	40	125	8.2	9.0	--	10.6
23...	1028	1028	50	125	8.1	9.0	--	10.5
23...	1028	1028	60	124	8.1	9.0	--	10.4
23...	1028	1028	70	122	8.0	9.0	--	10.4
23...	1028	1028	80	123	8.0	8.5	--	10.3
23...	1028	1028	90	122	7.9	8.0	--	10.0
23...	1028	1028	100	122	7.9	7.0	--	10.0
23...	1028	1028	110	121	7.8	6.5	--	10.2
23...	1028	1028	120	123	7.8	6.0	--	10.2
23...	1028	1028	130	123	7.7	6.0	--	10.2
23...	1028	1028	140	123	7.7	6.0	--	10.0
23...	1028	1028	150	123	7.7	6.0	--	10.0
23...	1028	1028	160	123	7.6	6.0	--	9.9
23...	1028	1028	170	123	7.6	6.0	--	9.7
23...	1028	1028	180	123	7.6	6.0	--	9.4
23...	1028	1028	190	123	7.6	6.0	--	9.3
APR								
20...	1028	--	--	--	--	--	300	--
20...	1028	1028	.0	128	8.2	15.0	--	9.8
20...	1028	1028	10	128	8.2	15.0	--	9.8
20...	1028	1028	20	128	8.2	15.0	--	10.0
20...	1028	1028	30	131	8.1	14.5	--	10.0
20...	1028	1028	35	131	8.1	14.0	--	10.0
20...	1028	1028	40	134	8.1	13.0	--	10.2

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
APR								
20...	1028	1028	45	131	8.1	12.0	--	10.5
20...	1028	1028	50	127	8.0	11.0	--	10.5
20...	1028	1028	60	131	7.8	10.0	--	10.5
20...	1028	1028	70	128	7.7	9.0	--	10.4
20...	1028	1028	80	129	7.6	8.5	--	10.2
20...	1028	1028	90	133	7.6	7.5	--	10.2
20...	1028	1028	100	127	7.5	7.0	--	9.9
20...	1028	1028	110	127	7.5	7.0	--	9.9
20...	1028	1028	120	121	7.5	6.5	--	9.8
20...	1028	1028	130	121	7.4	6.5	--	9.6
20...	1028	1028	140	123	7.4	6.0	--	9.4
20...	1028	1028	150	123	7.4	6.0	--	9.2
20...	1028	1028	160	123	7.4	6.0	--	9.0
20...	1028	1028	170	123	7.4	6.0	--	8.6
20...	1028	1028	180	123	7.4	6.0	--	8.4
20...	1028	1028	185	123	7.4	6.0	--	7.9
MAY								
25...	1028	--	--	--	--	--	372	--
25...	1028	1028	.0	126	8.4	20.0	--	9.6
25...	1028	1028	10	129	8.4	19.0	--	10.2
25...	1028	1028	15	132	8.4	18.0	--	10.0
25...	1028	1028	20	129	8.4	17.5	--	10.0
25...	1028	1028	30	129	8.3	17.0	--	--
25...	1028	1028	40	126	8.1	16.0	--	9.8
25...	1028	1028	50	128	7.9	15.0	--	--
25...	1028	1028	55	125	7.7	14.0	--	8.6
25...	1028	1028	60	128	7.7	13.0	--	--
25...	1028	1028	65	124	7.6	12.0	--	8.2
25...	1028	1028	70	127	7.6	11.0	--	--
25...	1028	1028	80	129	7.5	10.0	--	8.2
25...	1028	1028	90	128	7.5	9.0	--	--
25...	1028	1028	100	129	7.5	8.5	--	9.2
25...	1028	1028	110	126	7.4	7.5	--	--
25...	1028	1028	120	127	7.4	7.0	--	8.4
25...	1028	1028	130	127	7.4	7.0	--	--
25...	1028	1028	140	129	7.3	6.5	--	9.6
25...	1028	1028	150	121	7.3	6.5	--	--
25...	1028	1028	160	121	7.3	6.5	--	8.8
25...	1028	1028	170	121	7.3	6.5	--	--
25...	1028	1028	180	121	7.3	6.5	--	8.6
25...	1028	1028	190	121	7.3	6.5	--	--
JUN								
23...	1028	--	--	--	--	--	150	--
23...	1028	1028	.0	93	7.7	23.0	--	10.0
23...	1028	1028	10	94	7.7	23.0	--	9.5
23...	1028	1028	20	95	7.7	22.5	--	9.6
23...	1028	1028	25	95	7.7	20.0	--	10.3
23...	1028	1028	30	95	7.7	19.0	--	10.3
23...	1028	1028	35	95	7.7	18.0	--	10.2
23...	1028	1028	40	95	7.7	17.0	--	10.0
23...	1028	1028	45	95	7.7	16.5	--	9.5
23...	1028	1028	50	95	7.7	16.0	--	9.3
23...	1028	1028	60	95	7.7	14.5	--	8.2
23...	1028	1028	70	94	7.7	13.0	--	8.1
23...	1028	1028	80	93	7.7	11.0	--	7.9
23...	1028	1028	90	92	7.7	10.5	--	7.9
23...	1028	1028	100	92	7.7	9.5	--	7.9
23...	1028	1028	110	92	7.7	8.5	--	7.9
23...	1028	1028	120	92	7.7	8.0	--	7.6
23...	1028	1028	130	92	7.7	7.5	--	7.3
23...	1028	1028	140	92	7.7	7.5	--	6.9
23...	1028	1028	150	92	7.7	7.0	--	6.6
23...	1028	1028	160	92	7.7	7.0	--	6.4
23...	1028	1028	170	92	7.7	7.0	--	6.3
23...	1028	1028	180	93	7.7	7.0	--	6.2
23...	1028	1028	190	93	7.7	7.0	--	5.9
JUL								
20...	810	1028	.0	--	--	--	--	--
20...	810	--	--	--	--	--	192	--
20...	810	1028	25	140	--	--	--	--
20...	810	810	25	102	7.9	27.0	--	8.2
20...	810	1028	100	135	--	--	--	--
20...	810	810	100	110	6.8	18.0	--	6.9
23...	1028	--	--	--	--	--	198	--
23...	1028	1028	.0	115	8.5	28.0	--	7.2
23...	1028	1028	10	115	8.5	28.0	--	7.1
23...	1028	1028	20	115	8.5	28.0	--	7.0
23...	1028	1028	30	130	8.4	27.5	--	8.0
23...	1028	1028	35	130	8.1	19.5	--	7.6
23...	1028	1028	40	125	7.9	18.0	--	7.3

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)
JUL								
23...	1028	1028	45	125	7.7	17.0	--	6.6
23...	1028	1028	50	125	7.7	16.5	--	6.4
23...	1028	1028	60	125	7.5	15.0	--	5.3
23...	1028	1028	70	120	7.5	13.5	--	5.0
23...	1028	1028	80	120	7.5	12.0	--	5.1
23...	1028	1028	90	120	7.5	11.0	--	5.2
23...	1028	1028	100	120	7.5	10.0	--	5.3
23...	1028	1028	110	120	7.5	9.0	--	5.4
23...	1028	1028	120	120	7.5	8.5	--	5.0
23...	1028	1028	130	120	7.5	8.0	--	4.8
23...	1028	1028	140	115	7.4	8.0	--	4.1
23...	1028	1028	150	115	7.4	7.5	--	3.7
23...	1028	1028	160	115	7.4	7.5	--	3.5
23...	1028	1028	170	115	7.3	7.0	--	3.2
23...	1028	1028	180	115	7.3	7.0	--	3.0
AUG								
24...	1028	--	--	--	--	--	162	--
24...	1028	1028	.0	130	8.8	26.5	--	8.4
24...	1028	1028	10	130	8.8	26.5	--	8.3
24...	1028	1028	20	130	8.8	26.5	--	8.3
24...	1028	1028	25	130	8.6	25.0	--	8.2
24...	1028	1028	30	130	8.1	24.0	--	8.3
24...	1028	1028	35	130	7.9	22.0	--	8.0
24...	1028	1028	40	125	7.6	19.5	--	6.7
24...	1028	1028	45	125	7.6	18.5	--	6.4
24...	1028	1028	50	125	7.5	17.5	--	5.9
24...	1028	1028	55	125	7.5	16.5	--	4.9
24...	1028	1028	60	125	7.5	15.0	--	4.5
24...	1028	1028	70	120	7.4	14.5	--	3.6
24...	1028	1028	80	120	7.4	13.5	--	3.6
24...	1028	1028	90	120	7.4	12.5	--	4.1
24...	1028	1028	100	125	7.4	11.5	--	4.4
24...	1028	1028	110	120	7.4	10.5	--	4.6
24...	1028	1028	120	120	7.4	9.5	--	4.4
24...	1028	1028	130	125	7.3	9.0	--	3.7
24...	1028	1028	140	125	7.3	8.5	--	2.6
24...	1028	1028	150	125	7.3	8.0	--	1.5
24...	1028	1028	160	130	7.3	7.5	--	.8
24...	1028	1028	170	130	7.2	7.5	--	.5
24...	1028	1028	180	130	7.2	7.5	--	.3
SEP								
22...	1028	--	--	--	--	--	180	--
22...	1028	1028	.0	140	8.7	23.5	--	8.8
22...	1028	1028	10	135	8.7	23.5	--	8.7
22...	1028	1028	20	130	8.7	23.5	--	8.7
22...	1028	1028	30	130	8.6	23.0	--	8.4
22...	1028	1028	35	130	7.4	22.0	--	5.9
22...	1028	1028	40	130	7.3	20.5	--	5.6
22...	1028	1028	45	130	7.3	19.0	--	4.6
22...	1028	1028	50	125	7.2	17.5	--	3.9
22...	1028	1028	55	125	7.2	16.5	--	3.3
22...	1028	1028	60	125	7.2	16.0	--	2.9
22...	1028	1028	70	125	7.2	15.0	--	2.4
22...	1028	1028	80	125	7.2	14.0	--	2.5
22...	1028	1028	90	125	7.2	13.0	--	2.8
22...	1028	1028	100	125	7.3	11.5	--	3.5
22...	1028	1028	110	125	7.3	10.5	--	3.5
22...	1028	1028	120	125	7.3	10.0	--	2.9
22...	1028	1028	130	125	7.2	9.5	--	2.2
22...	1028	1028	140	125	7.2	9.0	--	1.0
22...	1028	1028	150	125	7.2	8.5	--	.3
22...	1028	1028	160	130	7.2	8.0	--	.1
22...	1028	1028	170	130	7.3	8.0	--	.1
22...	1028	1028	180	130	7.3	8.0	--	.1

07049691 WHITE RIVER AT BEAVER DAM, NEAR EUREKA SPRINGS, AR

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, at Beaver Dam, 6.0 mi (9.7 km) west of Eureka Springs, and at mile 609.0 (979.9 km).

DRAINAGE AREA.--1,192 mi^2 (3,087 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to current year.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorders in powerplant. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Discharge computed from powerplant records and estimated leakage through wicket gates. Flow completely reguated by Beaver Lake.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--11 years, 1,390 ft^3/s (39.4 m^3/s), 1,007,000 acre-ft/yr (1,240 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 25,900 ft^3/s (733 m^3/s) Apr. 23, 1973; minimum daily, 35 ft^3/s (0.99 m^3/s) at times in 1966, 1967, 1969, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,830 ft^3/s (165 m^3/s) Nov. 24, 26; minimum daily, 43 ft^3/s (1.22 m^3/s) Oct. 6, Mar. 12.

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	85	49	3340	54	54	560	395	52	53	789	46	53
2	206	48	3570	52	2650	541	413	52	280	51	47	53
3	47	569	1300	53	1330	571	54	1950	2760	51	49	1990
4	47	1310	382	53	3380	457	54	710	1040	52	1240	236
5	47	47	53	59	3320	500	1080	54	51	50	358	47
6	43	566	52	1780	1690	51	1120	48	51	54	934	47
7	755	46	52	4260	55	51	1620	51	51	1180	48	3370
8	1020	47	48	4660	55	50	1570	51	972	1890	48	386
9	295	46	54	2780	753	49	337	51	1480	2460	1700	47
10	1250	47	418	54	746	51	54	716	2780	51	1310	47
11	47	1230	353	54	56	51	54	774	3490	51	1200	47
12	47	1080	343	55	573	43	2110	2180	52	3380	3360	47
13	2100	1590	51	140	882	52	1440	3450	1140	3570	3220	1640
14	846	2300	51	54	55	52	1450	1210	4160	3880	766	47
15	753	49	567	704	54	57	1970	50	3460	3150	505	1520
16	47	49	355	1080	732	1770	63	50	3770	995	3940	1580
17	47	4600	1440	55	1620	891	59	3870	3810	51	3700	1730
18	47	3630	2780	55	1860	58	55	2710	797	51	3590	47
19	47	3900	5180	2070	573	54	59	3780	50	2230	2930	47
20	46	4850	582	543	54	53	63	3610	50	3450	2640	346
21	1800	4720	452	626	54	54	225	4000	2810	3320	1770	48
22	2200	49	4760	1390	54	464	989	3180	2900	2990	469	50
23	1570	49	4440	225	813	516	2100	2620	2590	3810	3300	1230
24	47	5830	1160	55	494	54	54	3870	2340	280	1140	1610
25	384	5580	54	55	483	55	54	3570	1480	51	1710	51
26	165	5830	1380	1520	394	54	555	3130	1090	4050	3190	268
27	475	2420	54	1140	404	53	322	2600	529	4020	3380	1420
28	47	3230	54	1350	54	54	690	330	4230	3990	52	48
29	47	55	52	1660	54	482	53	50	2340	4100	52	50
30	346	843	54	1820	---	53	53	51	2510	3510	1990	1450
31	50	---	57	55	---	54	---	52	---	1650	1840	---
TOTAL	14953	54659	33488	28515	23296	7855	19115	48872	53116	59207	50524	19552
MEAN	482	1822	1080	920	803	253	637	1577	1771	1910	1630	652
MAX	2200	5830	5180	4660	3380	1770	2110	4000	4230	4100	3940	3370
MIN	43	46	48	52	54	43	53	48	50	50	46	47
AC-FT	29660	108400	66420	56560	46210	15580	37910	96940	105400	117400	100200	38780

CAL YR 1975 TOTAL 663402 MEAN 1818 MAX 5830 MIN 41 AC-FT 1316000
WTR YR 1976 TOTAL 413152 MEAN 1129 MAX 5830 MIN 43 AC-FT 819500

07049691 WHITE RIVER AT BEAVER DAM, NEAR EUREKA SPRINGS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946, 1950-53, October 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DIS-CHARGE (CFS) (00060)		SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)
OCT													
14...	1028	1028	846		106	7.4	9.0	--	--	4.4	--	--	--
NOV													
18...	1028	1028	3630		97	7.0	9.5	--	--	8.4	--	--	--
DEC													
15...	810	1028	567		135	--	--	--	--	--	.6	0	--
15...	810	810		--	120	6.6	8.0	10	2	8.3	--	--	62
16...	1028	1028	355		92	6.2	9.0	--	--	6.4	--	--	--
JAN													
20...	1028	1028	543		116	7.9	6.0	--	--	12.0	--	--	--
FEB													
24...	1028	1028	494		121	7.7	6.5	--	--	11.0	--	--	--
MAR													
01...	810	1028	560		129	--	--	--	--	--	2.3	0	--
01...	810	810		--	104	7.8	11.0	10	6	11.8	--	--	66
23...	1028	1028		--	131	7.8	7.0	--	--	12.4	--	--	--
APR													
20...	1028	1028	63		131	7.8	8.0	--	--	11.4	--	--	--
MAY													
25...	1028	1028	3570		109	7.6	8.0	--	--	8.7	--	--	--
JUN													
23...	1028	1028	2590		92	7.7	9.0	--	--	9.7	--	--	--
JUL													
21...	810	1028	3320		136	--	--	--	--	--	.1	0	--
21...	810	810		--	130	6.3	12.0	10	10	6.6	--	--	62
23...	1028	1028	3810		115	7.4	10.0	--	--	5.6	--	--	--
AUG													
24...	1028	1028	1140		130	7.5	11.0	--	--	8.4	--	--	--
SEP													
22...	1028	1028	50		130	7.4	11.0	--	--	7.7	--	--	--

DATE	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	ALKA-LINITY AS CACO3 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO-GEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	--	1.5	--	4.8	2.5	.40	.00	.14	.14	.54	2.4	.00
15...	52	--	58	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
20...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
01...	--	1.0	--	6.8	1.8	.21	.03	.18	.21	.42	1.9	.01
01...	54	--	52	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
21...	--	1.1	--	6.2	3.5	.29	.00	.37	.37	.66	2.9	.00
21...	52	--	54	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
24...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
22...	--	--	--	--	--	--	--	--	--	--	--	--

07049691 WHITE RIVER AT BEAVER DAM, NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	.00	50	0	0	110	40	<100	160	.0	<50	90
15...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	.01	70	8	0	100	80	<100	50	.1	<50	120
01...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	.00	320	1	0	160	460	<100	150	.0	<50	130
21...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
AUG											
24...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	--	--	--	--	--	--	--	--	--	--	--

07049695 WHITE RIVER ABOVE BUSCH, AR

LOCATION.--Lat 36°26'32", long 93°50'13", temperature recorder on left bank 1.5 mi (2.4 km) south of Busch, Carroll County, 100 ft (30 m) upstream from Spider Creek, and 3.4 mi (5.5 km) downstream from Beaver Dam.

DRAINAGE AREA.--1,192 mi² (3,087 km²), at Beaver Dam.

PERIOD OF RECORD.--October 1968 to August 1969, May 1972 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1968 to August 1969, May 1972 to current year.

INSTRUMENTATION.--Temperature recorder since May 1972.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Records furnished by Arkansas Game and Fish Commission, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C Aug. 18, 1975; minimum, 1.5°C Jan. 6-8, 12, 1973.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.0°C Aug. 29.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	6.5	10.0	15.0	6.5	11.5	9.0	5.0	7.0			
2	14.5	4.0	9.0	16.5	9.0	14.0	9.0	7.0	8.0			
3	16.0	4.0	10.0	17.0	8.0	12.5	9.0	6.5	8.0			
4	16.5	3.0	10.0	13.0	8.0	10.5	10.0	6.5	8.5			
5	17.0	4.0	10.5	14.5	8.0	11.0	11.0	9.0	10.0			
6	18.0	5.5	11.5	13.5	6.5	10.0	10.0	6.5	8.5			
7	14.0	6.0	10.0	16.0	8.5	12.5	6.5	5.5	6.0			
8	19.0	8.5	14.0	16.5	7.0	12.0	7.0	6.0	6.5			
9	19.5	8.0	14.0	18.5	7.0	13.0	6.0	5.0	5.5			
10	20.0	9.0	14.5	11.5	1.5	6.5	8.0	4.5	6.0			
11	18.5	8.5	13.5	12.5	0.0	6.0	9.0	7.0	8.0			
12	22.0	10.0	16.0	8.0	3.5	5.5	9.0	8.5	8.5			
13	21.0	8.0	14.5	8.0	1.5	4.5	11.0	9.0	10.0			
14	14.5	8.5	11.5	8.5	2.0	5.5	12.5	11.0	11.5			
15	15.0	8.5	11.5	9.5	1.5	5.5	11.0	6.5	9.0			
16	12.5	7.0	10.0	12.5	0.5	6.5	8.0	5.5	6.5			
17	15.0	4.5	10.0	8.5	3.5	6.0	8.0	5.0	6.5			
18	15.0	3.0	9.0	8.5	6.5	7.5	---	---	---			
19	16.0	0.5	8.5	9.0	6.5	8.0	---	---	---			
20	18.5	2.0	10.0	9.5	6.5	8.0	---	---	---			
21	19.0	8.0	13.5	9.5	7.0	8.5	---	---	---			
22	17.0	8.5	13.0	---	---	---	---	---	---			
23	13.0	8.5	10.5	---	---	---	---	---	---			
24	17.0	6.5	12.0	---	---	---	---	---	---			
25	9.0	2.0	5.5	8.5	6.0	7.0	---	---	---			
26	9.0	1.0	5.0	8.5	6.0	7.0	---	---	---			
27	15.5	2.0	9.0	9.0	5.5	7.0	---	---	---			
28	16.0	6.5	12.5	9.0	5.5	7.0	---	---	---			
29	14.0	6.0	10.0	11.5	9.0	10.5	---	---	---			
30	14.5	2.0	8.5	11.0	6.0	8.5	---	---	---			
31	13.0	7.0	10.0	---	---	---	---	---	---			
MONTH	22.0	0.5	11.0	18.5	0.0	8.5	---	---	---			

07049695 WHITE RIVER ABOVE BUSCH, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.0	8.5	9.0	---	---	---	13.5	6.5	10.0
2	---	---	---	16.0	9.0	12.5	---	---	---	14.5	4.0	9.0
3	---	---	---	16.5	11.0	14.0	---	---	---	16.0	4.0	10.0
4	---	---	---	16.0	15.0	15.5	---	---	---	16.5	3.0	10.0
5	10.5	8.5	9.5	15.0	14.0	14.5	---	---	---	17.0	4.0	10.5
6	14.0	10.5	12.5	13.5	12.5	13.0	---	---	---	18.0	5.5	11.5
7	14.0	13.0	13.5	18.5	8.0	13.0	21.0	10.0	15.5	14.0	6.0	10.0
8	17.0	8.0	12.5	10.0	8.0	9.0	22.0	12.5	17.0	19.0	8.5	14.0
9	10.0	8.0	9.0	10.5	8.0	9.0	28.0	9.0	18.5	19.5	8.0	13.0
10	11.0	8.0	9.5	9.5	8.5	9.0	21.5	9.0	15.5	20.0	9.0	14.5
11	10.5	8.0	9.0	11.0	9.5	10.5	22.0	9.5	16.0	18.5	8.5	13.5
12	11.0	8.0	9.5	16.0	8.5	12.5	24.0	9.5	16.5	22.0	10.0	16.0
13	18.0	14.0	16.0	10.0	8.5	9.0	---	---	---	21.0	8.0	14.5
14	11.0	8.5	10.0	10.0	8.5	9.0	14.0	9.0	11.5	14.5	8.5	11.5
15	9.0	8.5	8.5	10.0	8.5	9.0	14.5	9.5	12.0	15.0	8.5	11.5
16	9.0	8.0	8.5	11.0	8.0	9.5	13.5	9.5	11.5	12.5	7.0	10.0
17	9.0	8.0	8.5	11.5	8.0	10.0	12.5	9.5	11.0	15.0	4.5	10.0
18	9.0	8.0	8.5	15.5	11.5	14.0	12.5	9.5	11.0	15.0	3.0	9.0
19	11.5	8.5	10.0	18.0	14.0	15.5	12.5	9.5	11.0	16.0	0.5	8.5
20	13.5	11.5	12.5	13.0	8.5	10.5	12.5	9.5	11.0	18.5	2.0	10.5
21	16.0	8.5	12.5	11.5	9.0	10.5	15.0	9.5	12.5	19.0	8.0	13.5
22	10.0	8.5	9.0	13.5	9.0	11.0	15.5	10.0	13.0	17.0	8.5	13.0
23	15.0	8.5	11.5	11.5	8.5	10.0	16.5	10.0	13.5	13.0	8.5	10.5
24	13.5	8.5	11.0	16.0	9.0	12.5	14.5	9.5	12.0	17.0	6.5	12.0
25	---	---	---	16.0	9.5	13.0	14.5	10.0	12.5	9.0	2.0	5.5
26	10.0	9.0	9.5	20.5	9.0	15.0	16.5	10.0	14.0	9.0	1.0	5.0
27	13.5	9.0	11.0	13.0	9.0	11.0	13.5	10.0	11.5	15.5	2.0	9.0
28	10.0	9.0	9.5	13.0	9.0	11.0	16.0	10.0	13.0	16.0	8.5	12.5
29	9.5	8.5	9.0	14.5	9.5	12.0	23.0	12.5	17.5	14.0	6.0	10.0
30	9.5	8.5	9.0	---	---	---	13.0	10.0	11.5	14.5	2.0	8.5
31	---	---	---	---	---	---	16.0	10.0	13.0	---	---	---
MONTH	18.0	8.0	10.5	20.5	8.0	11.5	---	---	---	22.0	0.5	11.0

07050000 WHITE RIVER AT BEAVER, AR

LOCATION.--Lat 36°28'20", long 93°46'12", in NE¼SE¼ sec.20 T.21 N., R.26 W., Carroll County, at bridge on State Highway 187, 0.4 mi (0.6 km) downstream from Butler Creek, and 13 mi (21 km) downstream from Beaver Dam.

DRAINAGE AREA.--1,244 mi^2 (3,222 km^2).

PERIOD OF RECORD.--October 1945 to September 1946, April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1945 to September 1946.
WATER TEMPERATURES: October 1945 to September 1946.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
21...	9827	9827	1770	153	8.2	29.0	22.0	5	6	9.4
NOV										
24...	9827	9827	5820	104	7.8	.0	8.0	5	10	7.1
DEC										
12...	9827	9827	--	--	--	--	--	--	--	--
17...	9827	9827	1410	151	7.8	<2.0	8.0	5	5	9.7
JAN										
27...	9827	9827	1110	131	7.9	5.0	9.0	5	2	13.0
FEB										
24...	9827	9827	460	130	7.9	19.0	15.0	5	2	11.9
MAR										
23...	9827	9827	480	152	8.0	17.0	15.0	5	3	11.2
APR										
20...	9827	9827	20	216	8.0	24.0	19.0	40	35	9.6
MAY										
24...	9827	9827	3850	138	7.6	20.0	13.0	10	<25	10.0
JUN										
21...	9827	9827	2790	210	8.2	25.0	26.0	30	<25	8.5
JUL										
21...	9827	9827	3300	193	7.9	31.0	26.0	15	4	8.6
AUG										
18...	9827	9827	3570	141	7.4	29.0	17.0	5	4	5.9
SEP										
15...	9827	9827	1490	190	8.6	27.0	26.0	5	3	8.6

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
21...	107	3.8	50	10	--	--	--	--	--	--
NOV										
24...	60	1.0	360	16	140	50	0	18	44	1.0
DEC										
12...	--	--	--	--	--	--	--	--	--	--
17...	82	1.4	73	24	--	--	--	--	--	--
JAN										
27...	112	2.7	25	<5	8	--	--	--	--	--
FEB										
24...	117	2.3	20	0	10	--	--	--	--	--
MAR										
23...	110	2.0	<10	<4	4	76	2	24	60	4.0
APR										
20...	102	6.1	--	--	--	--	--	--	--	--
MAY										
24...	94	1.8	<10	140	1500	--	--	--	--	--
JUN										
21...	104	6.2	450	320	1200	100	2	30	76	6.0
JUL										
21...	105	3.1	140	70	--	--	--	--	--	--
AUG										
18...	60	.7	30	<5	--	62	6	22	56	1.0
SEP										
15...	104	2.9	70	<5	--	110	16	31	78	8.0

07050000 WHITE RIVER AT BEAVER, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
21...	--	--	--	--	--	--	6.0	5.0	111	16
NOV										
24...	2.0	1.3	66	0	54	1.7	--	3.5	--	--
DEC										
12...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	5.0	4.5	118	4
JAN										
27...	--	--	--	--	--	--	2.0	4.0	68	9
FEB										
24...	--	--	--	--	--	--	2.0	3.5	74	7
MAR										
23...	2.0	1.1	90	0	74	1.4	6.0	4.5	66	25
APR										
20...	--	--	--	--	--	--	6.0	2.5	132	39
MAY										
24...	--	--	--	--	--	--	2.0	4.5	81	0
JUN										
21...	2.9	1.1	120	0	98	1.2	4.0	3.5	116	5
JUL										
21...	--	--	--	--	--	--	6.0	5.0	104	19
AUG										
18...	--	--	68	0	56	4.3	5.0	7.5	82	5
SEP										
15...	2.2	1.1	92	11	94	.5	2.0	5.0	105	8

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
21...	127	<.10	.01	--	<10	0	<10	190	<10	100
NOV										
24...	--	.50	.03	<3	<10	0	<10	370	<10	260
DEC										
12...	--	--	--	--	--	--	--	--	--	--
17...	122	.55	<.01	--	--	--	--	--	--	--
JAN										
27...	77	.40	<.01	--	--	--	--	--	--	--
FEB										
24...	81	.27	<.01	--	--	--	--	--	--	--
MAR										
23...	91	.24	<.01	<3	<10	<3	<10	<17	<10	50
APR										
20...	171	.20	.06	--	--	--	--	--	--	--
MAY										
24...	81	.34	<.01	--	--	--	--	--	--	--
JUN										
21...	121	<.10	.01	<3	<10	<3	<10	66	<10	100
JUL										
21...	123	.29	.03	--	--	--	--	--	--	--
AUG										
18...	87	.55	.01	<3	<10	--	<10	130	--	180
SEP										
15...	113	<.10	.04	<3	<10	<3	<10	150	<10	81

07050000 WHITE RIVER AT BEAVER, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
21...	<10	--	--	--	--	--	--	--	--
NOV									
24...	<10	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
12...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
JAN									
27...	--	--	--	--	--	--	--	--	--
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
23...	<10	--	--	--	--	--	--	--	--
APR									
20...	--	--	--	--	--	--	--	--	--
MAY									
24...	--	--	--	--	--	--	--	--	--
JUN									
21...	<10	--	--	--	--	--	--	--	--
JUL									
21...	--	--	--	--	--	--	--	--	--
AUG									
18...	<10	--	--	--	--	--	--	--	--
SEP									
15...	<10	--	--	--	--	--	--	--	--

07050500 KINGS RIVER NEAR BERRYVILLE, AR

LOCATION.--Lat 36°25'36", long 93°37'15", in SE¼NE¼ sec.3, T.20 N., R.25 W., Carroll County, on right bank at downstream side of bridge on State Highway 143, 1.5 mi (2.4 km) downstream from Bee Creek, 2.5 mi (4.0 km) upstream from Clabber Creek, 5.3 mi (8.5 km) northwest of Berryville, and at mile 35.1 (56.5 km).

DRAINAGE AREA.--527 mi^2 (1,365 km^2).

PERIOD OF RECORD.--October 1953 to September 1960, October 1971 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
21...	9827	9827	--	240	8.1	27.0	19.0	5	3	10.4
NOV										
24...	9827	9827	.40	233	8.0	.0	5.0	5	2	10.9
DEC										
17...	9827	9827	1140	147	8.0	<3.0	7.0	10	7	11.2
JAN										
27...	9827	9827	445	212	8.2	4.0	6.0	5	1	13.2
FEB										
24...	9827	9827	570	225	8.2	21.0	11.0	0	2	11.6
MAR										
23...	9827	9827	630	202	8.2	20.0	17.0	5	5	11.8
APR										
20...	9827	9827	285	185	8.0	21.0	18.0	120	120	8.7
MAY										
24...	9827	9827	1060	228	8.0	20.0	20.0	10	<25	8.1
JUN										
21...	9827	9827	440	270	8.2	24.0	24.0	10	<25	9.4
JUL										
21...	9827	9827	425	291	8.3	32.0	29.0	15	3	10.4
AUG										
18...	9827	9827	281	302	8.2	26.0	26.0	10	6	9.2
SEP										
15...	9827	9827	142	316	8.1	23.0	23.0	5	3	8.6

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
21...	110	1.9	250	100	--	--	--	--	--	--
NOV										
24...	85	.9	260	25	100	120	0	40	100	6.0
DEC										
17...	92	1.6	740	380	--	--	--	--	--	--
JAN										
27...	106	2.6	25	<4	<5	--	--	--	--	--
FEB										
24...	105	2.4	70	20	20	--	--	--	--	--
MAR										
23...	122	2.9	94	20	8	98	0	32	80	4.0
APR										
20...	92	4.8	--	--	--	--	--	--	--	--
MAY										
24...	88	2.1	<10	88	48	--	--	--	--	--
JUN										
21...	109	2.3	110	32	24	130	7	40	100	8.0
JUL										
21...	132	5.6	210	40	--	--	--	--	--	--
AUG										
18...	112	3.5	240	80	--	140	1	42	110	9.0
SEP										
15...	98	2.3	<400	400	--	190	42	53	130	14

07050500 KINGS RIVER NEAR BERRYVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
21...	--	--	--	--	--	--	6.0	5.5	155	5
NOV										
24...	2.2	1.2	160	0	131	2.6	--	5.1	--	--
DEC										
17...	--	--	--	--	--	--	6.0	4.5	121	9
JAN										
27...	--	--	--	--	--	--	3.0	4.5	116	4
FEB										
24...	--	--	--	--	--	--	4.0	4.5	129	2
MAR										
23...	2.1	.1	120	0	98	1.2	6.0	5.0	93	7
APR										
20...	--	--	--	--	--	--	2.0	2.5	137	161
MAY										
24...	--	--	--	--	--	--	2.0	4.5	127	33
JUN										
21...	3.9	1.2	150	0	123	1.5	3.0	5.0	148	11
JUL										
21...	--	--	--	--	--	--	3.0	5.0	159	3
AUG										
18...	--	--	170	0	139	1.7	5.0	4.5	161	12
SEP										
15...	4.5	1.8	180	0	148	2.3	2.0	7.0	170	4

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
21...	160	.13	.12	--	<10	0	<10	68	<10	21
NOV										
24...	--	.40	.06	<3	<10	0	<10	87	<10	20
DEC										
17...	130	.80	.03	--	--	--	--	--	--	--
JAN										
27...	120	.40	.05	--	--	--	--	--	--	--
FEB										
24...	131	.27	.03	--	--	--	--	--	--	--
MAR										
23...	100	.17	.03	<3	<10	<3	<10	<17	<10	<27
APR										
20...	298	.35	.23	--	--	--	--	--	--	--
MAY										
24...	160	.30	.06	--	--	--	--	--	--	--
JUN										
21...	159	.23	.10	<3	<10	<3	<10	29	<10	<27
JUL										
21...	162	--	.07	--	--	--	--	--	--	--
AUG										
18...	173	.28	.17	<3	<10	--	<10	180	--	49
SEP										
15...	174	.13	.32	<3	<10	<3	<10	180	<10	81

07050500 KINGS RIVER NEAR BERRYVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
21...	<10	--	--	--	--	--	--	--	--
NOV									
24...	<10	--	--	--	--	--	--	--	--
DEC									
17...	--	--	--	--	--	--	--	--	--
JAN									
27...	--	.00	.00	.00	.00	.00	.00	.00	<1
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
23...	<10	--	--	--	--	--	--	--	--
APR									
20...	--	--	--	--	--	--	--	--	--
MAY									
24...	--	--	--	--	--	--	--	--	--
JUN									
21...	<10	--	--	--	--	--	--	--	--
JUL									
21...	--	--	--	--	--	--	--	--	--
AUG									
18...	<10	--	--	--	--	--	--	--	--
SEP									
15...	<10	--	--	--	--	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR

LOCATION.--Lat 36°21'56", long 92°34'29", in NW¼ sec.21, T.20 N., R.15 W., Marion County, at dam on White River, 6.3 mi (10.1 km) northeast of Flippin, 12.5 mi (20.1 km) downstream from Little North Fork, and at mile 418.6 (673.5 km).
DRAINAGE AREA.--6,051 mi² (15,670 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1951 to current year. Prior to October 1969, published as Bull Shoals Reservoir near Flippin.
REVISED RECORDS.--WRD Ark. 1973: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to July 20, 1951, nonrecording gage at present site and datum.
REMARKS.--Lake is formed by a concrete-gravity dam. Storage for purpose of filling to power-pool level began July 23, 1951, and bottom of power pool was first reached Mar. 13, 1952. Capacity between elevations 654.0 ft (199.34 m) and 695.0 ft (211.84 m) is 2,360,000 acre-ft (2.91 km³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Contents computed from daily readings at 2400 hours to five significant figures prior to Oct. 1, 1963. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates	695.0 (211.84 m)	5,408,000 (6.67 km³)
Crest of gated spillway	667.0 (203.30 m)	3,682,500 (4.54 km³)
Top of designated power pool	654.0 (199.34 m)	3,048,000 (3.76 km³)
Bottom of designated power pool	628.5 (191.57 m)	2,045,000 (2.52 km³)
Bottom of lowest outlet	477.1 (145.42 m)	8,410 (10.4 hm³)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,366,000 acre-ft (6.62 km³) June 21, 1957, elevation, 694.41 ft (211.656 m); minimum since bottom of power pool was first reached, 953,000 acre-ft (1,180 hm³) Sept. 29, 1954, elevation, 587.43 ft (179.049 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,559,000 acre-ft (4.39 km³) July 15, elevation, 664.60 ft (202.570 m); minimum, 2,930,000 acre-ft (3.61 km³) Nov. 24, elevation, 651.37 ft (198.538 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

651	2,914	660	3,329
655	3,094	665	3,579

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3143000	3034000	2944000	3068000	3024000	3056000	3069000	3113000	3197000	3386000	3415000	3126000
2	3139000	3034000	2947000	3074000	3016000	3056000	3073000	3114000	3203000	3401000	3401000	3124000
3	3135000	3031000	2949000	3083000	3013000	3056000	3078000	3113000	3210000	3411000	3386000	3121000
4	3135000	3031000	2950000	3094000	3009000	3056000	3081000	3113000	3213000	3419000	3369000	3112000
5	3137000	3024000	2994000	3101000	3010000	3057000	3078000	3126000	3215000	3421000	3349000	3109000
6	3132000	3020000	3044000	3099000	3010000	3055000	3078000	3133000	3215000	3423000	3319000	3107000
7	3133000	3017000	3058000	3085000	3008000	3055000	3075000	3128000	3205000	3442000	3288000	3099000
8	3132000	3018000	3061000	3081000	3008000	3052000	3075000	3128000	3200000	3458000	3252000	3090000
9	3131000	3021000	3065000	3079000	3008000	3055000	3081000	3131000	3197000	3470000	3235000	3087000
10	3129000	3012000	3068000	3079000	3011000	3057000	3080000	3119000	3193000	3486000	3218000	3085000
11	3124000	3010000	3063000	3083000	3007000	3050000	3081000	3116000	3182000	3500000	3210000	3083000
12	3123000	2999000	3060000	3079000	3010000	3053000	3081000	3106000	3175000	3516000	3208000	3080000
13	3104000	2978000	3063000	3074000	3010000	3053000	3081000	3102000	3168000	3532000	3193000	3072000
14	3096000	2963000	3071000	3072000	3012000	3056000	3080000	3107000	3165000	3548000	3191000	3063000
15	3096000	2962000	3066000	3059000	3013000	3054000	3084000	3112000	3167000	3550000	3191000	3053000
16	3091000	2962000	3060000	3056000	3015000	3043000	3088000	3116000	3167000	3550000	3181000	3045000
17	3085000	2959000	3047000	3050000	3015000	3039000	3070000	3109000	3168000	3546000	3177000	3034000
18	3083000	2959000	3040000	3046000	3016000	3039000	3078000	3112000	3169000	3542000	3178000	3016000
19	3081000	2959000	3031000	3044000	3016000	3039000	3079000	3111000	3167000	3539000	3182000	3013000
20	3076000	2945000	3026000	3045000	3019000	3044000	3120000	3109000	3166000	3537000	3182000	3011000
21	3069000	2934000	3023000	3042000	3032000	3044000	3145000	3101000	3166000	3528000	3172000	3010000
22	3062000	2936000	3017000	3041000	3038000	3042000	3160000	3107000	3163000	3518000	3168000	3005000
23	3049000	2937000	3015000	3039000	3043000	3041000	3150000	3107000	3202000	3504000	3162000	2997000
24	3055000	2932000	3014000	3036000	3043000	3041000	3147000	3107000	3238000	3490000	3164000	2986000
25	3062000	2933000	3021000	3034000	3045000	3043000	3134000	3109000	3263000	3476000	3159000	2986000
26	3071000	2936000	3020000	3028000	3050000	3047000	3124000	3110000	3286000	3469000	3148000	2989000
27	3064000	2937000	3019000	3021000	3051000	3044000	3118000	3135000	3314000	3458000	3134000	2967000
28	3058000	2937000	3026000	3022000	3053000	3048000	3116000	3158000	3338000	3444000	3132000	2959000
29	3051000	2940000	3044000	3021000	3052000	3057000	3114000	3175000	3357000	3456000	3131000	2951000
30	3042000	2942000	3055000	3023000	---	3066000	3114000	3172000	3371000	3444000	3130000	2938000
31	3036000	---	3061000	3023000	---	3068000	---	3191000	---	3427000	3128000	---
MAX	3143000	3034000	3071000	3101000	3053000	3068000	3160000	3191000	3371000	3550000	3415000	3126000
MIN	3036000	2932000	2944000	3021000	3007000	3039000	3069000	3101000	3163000	3386000	3128000	2938000
(†)	653.73	651.64	654.28	653.45	654.08	654.45	655.45	657.11	660.85	661.98	655.75	651.55
(‡)	-105000	-94000	+119000	-38000	+29000	+16000	+46000	+77000	+180000	+56000	-299000	-190000

CAL YR 1975 MAX 3732000 MIN 2932000 ‡ -344000
WTR YR 1976 MAX 3550000 MIN 2932000 ‡ -203000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-60, 1972, December 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC											
08...	810	1028	.0	--	--	--	4	--	--	--	--
08...	810	--	--	--	--	--	--	--	--	--	--
08...	810	810	10	10	6	--	--	118	90	--	130
08...	810	1028	25	--	--	1.0	--	--	--	--	--
08...	810	810	25	0	2	--	--	130	86	--	128
08...	810	810	50	10	0	--	--	132	88	--	128
08...	810	810	75	0	0	--	--	130	90	--	128
08...	810	1028	100	--	--	.8	--	--	--	2.3	--
08...	810	810	100	10	5	--	--	154	92	--	132
08...	810	810	125	0	10	--	--	152	92	--	130
08...	810	810	150	0	5	--	--	142	102	--	134
08...	810	810	175	0	12	--	--	164	100	--	138

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
DEC										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	5.5	2.7	.23	.03	.26	.29	.52	2.3	.00	.00
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
DEC										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	50	0	0	70	40	<100	40	.0	<50	50
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
MAR											
28...	810	1028	.0	--	--	--	0	--	--	--	--
28...	810	--	--	--	--	--	--	--	--	--	--
28...	810	1028	25	--	--	1.5	--	--	--	1.3	--
28...	810	810	25	0	5	--	--	132	86	--	116
28...	810	1028	100	--	--	1.3	--	--	--	1.6	--
28...	810	810	100	10	5	--	--	128	83	--	92

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
MAR										
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	5.6	3.3	.25	.05	.08	.13	.38	1.7	.11	.03
28...	--	--	--	--	--	--	--	--	--	--
28...	5.6	3.1	.31	.03	.27	.30	.61	2.7	.01	.00
28...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
MAR										
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	50	0	20	120	70	<100	10	.0	<50	110
28...	--	--	--	--	--	--	--	--	--	--
28...	80	0	0	130	80	100	10	.0	<50	150
28...	--	--	--	--	--	--	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
AUG											
02...	810	1028	.0	--	--	--	1	--	--	--	--
02...	810	--	--	--	--	--	--	--	--	--	--
02...	810	810	25	8	0	--	--	114	72	--	102
02...	810	1028	25	--	--	2.2	--	--	--	1.4	--
02...	810	1028	100	--	--	2.3	--	--	--	1.3	--
02...	810	810	100	8	6	--	--	118	82	--	114

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
AUG										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	8.1	3.8	.01	.00	.17	.17	.18	.80	.02	.01
02...	6.9	3.8	.15	.00	.18	.18	.33	1.5	.01	.01
02...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
AUG										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	50	1	0	270	10	200	30	.0	<50	270
02...	40	1	0	230	20	600	30	.0	<50	230
02...	--	--	--	--	--	--	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT								
15...	1028	--	--	--	--	--	204	--
15...	1028	1028	.0	209	8.7	20.0	--	8.8
15...	1028	1028	10	209	8.6	20.0	--	8.6
15...	1028	1028	20	209	8.5	20.0	--	8.0
15...	1028	1028	30	211	8.5	19.5	--	7.9
15...	1028	1028	40	213	8.1	18.5	--	3.1
15...	1028	1028	45	222	7.6	17.0	--	1.0
15...	1028	1028	50	228	7.5	16.0	--	.8
15...	1028	1028	55	226	7.5	15.0	--	.7
15...	1028	1028	60	225	7.5	14.0	--	.9
15...	1028	1028	70	222	7.4	13.5	--	1.4
15...	1028	1028	80	216	7.4	12.0	--	2.7
15...	1028	1028	90	214	7.4	11.0	--	3.7
15...	1028	1028	100	208	7.4	11.0	--	4.0
15...	1028	1028	110	207	7.4	10.0	--	4.4
15...	1028	1028	120	207	7.4	10.0	--	4.3
15...	1028	1028	130	213	7.4	9.0	--	3.4
15...	1028	1028	140	213	7.4	9.0	--	2.6
15...	1028	1028	150	215	7.3	8.5	--	1.3
15...	1028	1028	160	218	7.3	8.0	--	.6
15...	1028	1028	170	223	7.3	8.0	--	.2
NOV								
19...	1028	--	--	--	--	--	168	--
19...	1028	1028	.0	207	8.4	15.5	--	7.6
19...	1028	1028	10	207	8.3	15.5	--	7.5
19...	1028	1028	20	213	8.2	14.0	--	7.4
19...	1028	1028	30	207	8.1	15.0	--	7.2
19...	1028	1028	40	207	8.1	15.0	--	7.1
19...	1028	1028	50	207	8.1	15.0	--	7.5
19...	1028	1028	60	207	8.0	15.0	--	6.5
19...	1028	1028	70	212	7.9	14.0	--	6.2
19...	1028	1028	80	212	7.8	14.0	--	4.9
19...	1028	1028	85	222	7.5	13.5	--	.6
19...	1028	1028	90	224	7.5	13.0	--	.4
19...	1028	1028	100	222	7.4	12.0	--	1.0
19...	1028	1028	110	214	7.5	11.0	--	1.4
19...	1028	1028	120	204	7.4	10.5	--	1.3
19...	1028	1028	130	204	7.4	10.0	--	.9
19...	1028	1028	140	202	7.4	9.5	--	.5
19...	1028	1028	150	206	7.4	9.0	--	.3
19...	1028	1028	160	200	7.4	8.5	--	.3
19...	1028	1028	170	200	7.4	8.5	--	.3
19...	1028	1028	175	203	7.5	8.0	--	.2
DEC								
08...	810	1028	.0	--	--	--	--	--
08...	810	--	--	--	--	--	168	--
08...	810	810	10	180	6.4	11.0	--	--
08...	810	1028	25	--	--	--	--	--
08...	810	810	25	220	6.3	11.5	--	8.1
08...	810	810	50	225	6.2	11.0	--	8.2
08...	810	810	75	225	6.7	11.5	--	8.2
08...	810	1028	100	247	--	--	--	--
08...	810	810	100	220	6.7	11.0	--	5.7
08...	810	810	125	215	6.4	10.0	--	.3
08...	810	810	150	235	6.5	9.5	--	.1
08...	810	810	175	220	6.5	9.0	--	.2
17...	1028	1028	.0	224	7.8	10.5	--	8.4
17...	1028	1028	10	224	--	10.5	--	8.2
17...	1028	1028	20	224	--	10.5	--	8.1
17...	1028	1028	30	224	--	10.5	--	8.0
17...	1028	1028	40	224	7.6	10.5	--	8.0
17...	1028	1028	50	224	--	10.5	--	8.0
17...	1028	1028	60	224	--	10.5	--	7.9
17...	1028	1028	70	224	--	10.5	--	7.8
17...	1028	1028	80	224	7.4	10.5	--	7.7
17...	1028	1028	90	224	--	10.5	--	7.7
17...	1028	1028	100	224	--	10.5	--	8.2
17...	1028	1028	110	224	--	10.5	--	8.0
17...	1028	1028	120	224	7.6	10.5	--	7.8
17...	1028	1028	130	224	--	10.5	--	7.4
17...	1028	1028	140	224	--	10.5	--	6.8
17...	1028	1028	145	235	--	10.0	--	.5
17...	1028	1028	150	248	7.5	9.0	--	.4
17...	1028	1028	160	248	--	9.0	--	.2
17...	1028	1028	170	248	--	9.0	--	.2
17...	1028	1028	175	248	7.6	9.0	--	.2
JAN								
21...	1028	--	--	--	--	--	168	--
21...	1028	1028	.0	216	8.0	7.0	--	10.0
21...	1028	1028	10	224	8.0	7.0	--	10.0

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
JAN								
21...	1028	1028	20	224	8.0	7.0	--	10.0
21...	1028	1028	30	224	8.0	7.0	--	10.0
21...	1028	1028	40	224	8.0	7.0	--	10.0
21...	1028	1028	50	224	8.0	7.0	--	9.9
21...	1028	1028	60	224	8.0	7.0	--	9.8
21...	1028	1028	70	224	8.0	7.0	--	9.9
21...	1028	1028	80	224	8.0	7.0	--	9.9
21...	1028	1028	90	224	8.0	7.0	--	9.8
21...	1028	1028	100	224	8.0	7.0	--	9.8
21...	1028	1028	110	224	8.0	7.0	--	9.8
21...	1028	1028	120	224	8.0	7.0	--	9.8
21...	1028	1028	130	224	8.0	7.0	--	9.7
21...	1028	1028	140	224	8.0	7.0	--	9.7
21...	1028	1028	150	226	8.0	6.5	--	9.6
21...	1028	1028	160	226	8.0	6.5	--	8.6
21...	1028	1028	170	226	8.0	6.5	--	8.6
21...	1028	1028	175	226	8.0	6.5	--	8.4
FEB								
25...	1028	--	--	--	--	--	144	--
25...	1028	1028	.0	232	8.6	8.0	--	10.8
25...	1028	1028	10	232	8.5	8.0	--	10.6
25...	1028	1028	20	232	8.5	8.0	--	10.5
25...	1028	1028	30	232	8.5	8.0	--	10.4
25...	1028	1028	40	232	8.4	8.0	--	10.4
25...	1028	1028	50	232	8.4	8.0	--	10.4
25...	1028	1028	60	232	8.4	8.0	--	10.3
25...	1028	1028	80	232	8.4	8.0	--	10.2
25...	1028	1028	100	237	8.4	7.5	--	10.2
25...	1028	1028	120	237	8.3	7.5	--	10.2
25...	1028	1028	140	238	8.3	7.0	--	10.1
25...	1028	1028	150	238	8.3	7.0	--	10.0
25...	1028	1028	160	238	8.3	7.0	--	10.0
25...	1028	1028	172	238	8.3	7.0	--	9.9
MAR								
24...	1028	--	--	--	--	--	366	--
24...	1028	1028	.0	248	8.4	10.0	--	10.8
24...	1028	1028	5.0	--	8.3	10.0	--	10.2
24...	1028	1028	10	--	8.3	10.0	--	9.6
24...	1028	1028	20	--	8.3	10.0	--	9.5
24...	1028	1028	30	248	8.3	10.0	--	9.3
24...	1028	1028	40	--	8.3	10.0	--	9.1
24...	1028	1028	50	--	8.3	9.5	--	9.0
24...	1028	1028	60	--	8.2	9.0	--	8.9
24...	1028	1028	70	--	8.2	8.5	--	8.6
24...	1028	1028	80	254	8.1	8.0	--	8.5
24...	1028	1028	90	--	8.1	7.0	--	8.6
24...	1028	1028	100	--	8.0	6.0	--	8.7
24...	1028	1028	110	--	8.0	5.5	--	8.5
24...	1028	1028	120	270	7.9	5.0	--	8.3
24...	1028	1028	130	--	7.9	5.0	--	8.3
24...	1028	1028	140	--	7.8	4.5	--	8.3
24...	1028	1028	150	--	7.8	4.5	--	8.3
24...	1028	1028	160	--	7.8	4.0	--	8.4
24...	1028	1028	170	262	7.8	3.5	--	7.6
28...	810	1028	.0	--	--	--	--	--
28...	810	--	--	--	--	--	420	--
28...	810	1028	25	253	--	--	--	--
28...	810	810	25	250	7.0	11.0	--	10.7
28...	810	1028	100	253	--	--	--	--
28...	810	810	100	260	6.7	8.0	--	10.5
APR								
20...	1028	1028	.0	228	8.5	15.0	--	10.4
20...	1028	1028	5.0	231	8.4	14.0	--	10.4
20...	1028	1028	10	231	8.4	13.0	--	10.4
20...	1028	1028	20	239	8.4	12.5	--	10.3
20...	1028	1028	30	248	8.3	11.5	--	10.4
20...	1028	1028	40	248	8.3	11.0	--	10.4
20...	1028	1028	50	252	8.3	10.5	--	10.4
20...	1028	1028	60	248	8.2	10.0	--	10.4
20...	1028	1028	70	250	8.2	9.5	--	10.2
20...	1028	1028	80	248	8.1	9.0	--	10.0
20...	1028	1028	90	250	8.1	8.5	--	10.0
20...	1028	1028	100	246	8.1	8.0	--	10.0
20...	1028	1028	110	252	8.0	7.5	--	9.8
20...	1028	1028	120	246	8.0	7.0	--	9.7
20...	1028	1028	130	249	8.0	6.5	--	9.8
20...	1028	1028	140	254	7.9	6.0	--	9.8
20...	1028	1028	150	254	7.9	6.0	--	9.4
20...	1028	1028	160	254	7.9	6.0	--	9.1
20...	1028	1028	170	254	7.9	6.0	--	8.6

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
APR								
20...	1028	1028	180	254	7.9	6.0	--	8.3
MAY								
26...	1028	--	--	--	--	--	288	--
26...	1028	1028	.0	242	8.7	20.0	--	10.0
26...	1028	1028	10	236	8.6	20.0	--	10.0
26...	1028	1028	15	235	8.7	19.0	--	9.8
26...	1028	1028	20	242	8.7	18.0	--	10.2
26...	1028	1028	25	240	8.6	17.0	--	10.3
26...	1028	1028	30	238	8.6	16.5	--	10.0
26...	1028	1028	40	244	8.5	15.5	--	9.8
26...	1028	1028	50	244	8.3	14.5	--	9.5
26...	1028	1028	60	238	8.2	14.0	--	--
26...	1028	1028	65	239	8.0	12.5	--	9.0
26...	1028	1028	70	242	7.9	12.0	--	--
26...	1028	1028	80	248	7.9	11.5	--	8.2
26...	1028	1028	90	245	7.9	10.5	--	--
26...	1028	1028	100	242	7.8	10.0	--	8.2
26...	1028	1028	110	241	7.8	9.0	--	--
26...	1028	1028	120	243	7.8	8.5	--	8.2
26...	1028	1028	130	239	7.7	8.0	--	--
26...	1028	1028	140	246	7.7	7.0	--	7.6
26...	1028	1028	150	246	7.7	7.0	--	--
26...	1028	1028	160	246	7.7	7.0	--	7.2
26...	1028	1028	170	249	7.6	6.5	--	--
26...	1028	1028	180	249	7.6	6.5	--	6.2
JUN								
24...	1028	--	--	--	--	--	132	--
24...	1028	1028	.0	215	8.7	23.0	--	11.4
24...	1028	1028	5.0	215	8.7	22.0	--	13.5
24...	1028	1028	10	220	8.7	21.0	--	15.3
24...	1028	1028	15	220	8.7	19.5	--	15.3
24...	1028	1028	20	220	8.7	19.0	--	14.1
24...	1028	1028	25	225	8.7	18.0	--	12.3
24...	1028	1028	30	225	8.6	17.0	--	11.3
24...	1028	1028	40	220	8.4	16.0	--	10.1
24...	1028	1028	50	220	8.3	15.5	--	9.5
24...	1028	1028	60	220	8.0	14.5	--	8.4
24...	1028	1028	70	220	7.8	13.0	--	6.9
24...	1028	1028	80	220	7.7	12.5	--	6.5
24...	1028	1028	90	220	7.6	11.5	--	6.4
24...	1028	1028	100	220	7.8	11.0	--	6.7
24...	1028	1028	110	220	7.8	11.0	--	7.0
24...	1028	1028	120	220	7.8	10.0	--	7.4
24...	1028	1028	130	220	7.8	9.0	--	7.2
24...	1028	1028	140	220	7.8	8.5	--	7.1
24...	1028	1028	150	220	7.8	8.0	--	6.9
24...	1028	1028	160	220	7.8	7.5	--	6.8
24...	1028	1028	170	220	7.7	7.5	--	6.2
24...	1028	1028	175	220	7.7	7.0	--	4.7
JUL								
22...	1028	--	--	--	--	--	330	--
22...	1028	1028	.0	230	8.6	28.0	--	7.0
22...	1028	1028	10	230	8.6	28.0	--	7.1
22...	1028	1028	20	230	8.6	28.0	--	7.1
22...	1028	1028	25	230	8.6	28.0	--	7.1
22...	1028	1028	30	230	8.8	23.5	--	11.2
22...	1028	1028	35	230	8.8	21.0	--	12.0
22...	1028	1028	40	235	8.8	19.5	--	11.4
22...	1028	1028	45	240	8.6	17.5	--	8.7
22...	1028	1028	50	250	8.5	16.5	--	7.9
22...	1028	1028	60	255	8.2	16.0	--	7.1
22...	1028	1028	70	260	7.8	15.5	--	4.8
22...	1028	1028	80	250	7.7	14.5	--	4.6
22...	1028	1028	90	250	7.7	14.0	--	4.5
22...	1028	1028	100	250	7.7	13.5	--	4.4
22...	1028	1028	110	245	7.7	13.0	--	4.4
22...	1028	1028	120	245	7.7	12.0	--	4.7
22...	1028	1028	130	245	7.7	11.0	--	4.6
22...	1028	1028	140	255	7.7	10.5	--	4.2
22...	1028	1028	150	255	7.7	9.0	--	3.5
22...	1028	1028	160	255	7.6	8.5	--	2.9
22...	1028	1028	170	255	7.6	8.0	--	2.0
22...	1028	1028	180	255	7.6	7.5	--	1.2
22...	1028	1028	185	255	7.5	7.0	--	1.1
AUG								
02...	810	1028	.0	--	--	--	--	--
02...	810	--	--	--	--	--	240	--
02...	810	810	25	225	7.7	26.5	--	11.3
02...	810	1028	25	232	--	--	--	--
02...	810	1028	100	239	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
AUG								
02...	810	810	100	210	7.8	19.0	--	5.6
24...	1028	--	--	--	--	--	276	--
24...	1028	1028	.0	235	8.7	27.5	--	8.0
24...	1028	1028	10	235	8.7	27.0	--	8.0
24...	1028	1028	20	235	8.7	27.0	--	8.2
24...	1028	1028	25	235	8.7	26.0	--	9.1
24...	1028	1028	30	235	8.7	24.0	--	13.2
24...	1028	1028	35	235	8.7	21.0	--	12.8
24...	1028	1028	40	240	8.6	20.0	--	11.4
24...	1028	1028	45	245	8.6	19.0	--	10.4
24...	1028	1028	50	250	8.2	18.0	--	7.5
24...	1028	1028	60	250	7.8	17.0	--	4.1
24...	1028	1028	70	240	7.8	16.0	--	3.9
24...	1028	1028	80	235	7.7	15.5	--	4.5
24...	1028	1028	90	230	7.7	15.0	--	5.1
24...	1028	1028	100	235	7.7	15.0	--	5.2
24...	1028	1028	110	240	7.7	14.5	--	4.5
24...	1028	1028	120	240	7.7	14.0	--	4.2
24...	1028	1028	130	250	7.6	13.0	--	2.9
24...	1028	1028	140	250	7.6	11.5	--	1.9
24...	1028	1028	150	255	7.5	11.0	--	.6
24...	1028	1028	160	260	7.6	9.5	--	.2
24...	1028	1028	170	265	7.6	9.0	--	.2
24...	1028	1028	180	270	7.6	8.5	--	.1
SEP								
22...	1028	--	--	--	--	--	162	--
22...	1028	1028	.0	235	8.6	24.5	--	9.6
22...	1028	1028	10	235	8.6	24.0	--	9.6
22...	1028	1028	20	235	8.6	24.0	--	9.6
22...	1028	1028	30	235	8.6	24.0	--	9.6
22...	1028	1028	35	235	8.6	24.0	--	9.6
22...	1028	1028	40	245	8.4	21.5	--	11.2
22...	1028	1028	45	250	8.1	19.5	--	8.8
22...	1028	1028	50	255	7.9	18.5	--	6.6
22...	1028	1028	55	260	7.7	18.0	--	3.4
22...	1028	1028	60	255	7.6	17.0	--	2.3
22...	1028	1028	70	250	7.6	16.5	--	2.7
22...	1028	1028	80	250	7.6	16.0	--	3.1
22...	1028	1028	90	240	7.6	15.0	--	4.4
22...	1028	1028	100	240	7.6	14.5	--	4.4
22...	1028	1028	110	240	7.6	14.0	--	3.9
22...	1028	1028	120	245	7.5	14.0	--	3.3
22...	1028	1028	130	250	7.5	13.0	--	1.6
22...	1028	1028	140	255	7.5	12.5	--	.2
22...	1028	1028	150	260	7.5	11.0	--	.1
22...	1028	1028	160	265	7.5	10.0	--	.1
22...	1028	1028	170	270	7.5	9.0	--	.0
22...	1028	1028	175	270	7.5	8.5	--	.0

07054501 WHITE RIVER AT BULL SHOALS DAM, AR

LOCATION.--Lat 36°21'56", long 92°34'29", in NW¼ sec.21, T.20 N., R.15 W., Marion County, at dam on White River, 11.9 mi (19.1 km) upstream from gaging station, 6.3 mi (10.1 km) northeast of Flippin, 12.5 mi (20.1 km) downstream from Little North Fork, and at mile 418.6 (673.5 km).

DRAINAGE AREA.--6,051 mi² (15,670 km²).

PERIOD OF RECORD. July 1954 to September 1968, October 1970 to September 1971, December 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1954 to September 1964.

COOPERATION.--Additional analyses are available from Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)
OCT										
15...	1028	1028	5490	--	252	8.0	--	10.5	--	--
20...	9827	9827	--	6180	233	8.0	15.0	12.0	10	3
NOV										
18...	9827	9827	--	2740	229	7.8	15.0	12.0	5	1
19...	1028	1028	1060	--	214	7.8	--	11.5	--	--
DEC										
08...	810	1028	4940	--	--	--	--	--	--	--
08...	810	810	--	--	180	6.7	--	11.0	0	10
16...	9827	9827	--	12700	207	8.0	4.0	11.0	5	2
17...	1028	1028	10600	--	170	7.5	--	10.0	--	--
JAN										
21...	1028	1028	2480	--	224	8.2	--	7.0	--	--
26...	9827	9827	--	24900	252	8.1	2.0	7.0	0	1
FEB										
23...	9827	9827	--	3510	233	8.2	9.0	9.0	5	1
25...	1028	1028	1660	--	--	--	--	--	--	--
MAR										
15...	9827	9827	--	13300	258	8.1	17.0	10.0	10	1
24...	1028	1028	1420	--	--	--	--	--	--	--
27...	810	--	--	--	--	--	--	--	--	--
27...	810	1028	786	--	--	--	--	--	--	--
27...	810	810	--	--	220	7.4	--	9.5	5	0
APR										
20...	9827	9827	--	19700	265	8.1	19.0	10.0	5	2
20...	1028	1028	8410	--	--	--	--	--	--	--
MAY										
18...	9827	9827	--	7950	255	8.1	21.0	11.0	5	3
26...	1028	1028	7370	--	234	8.0	--	9.0	--	--
JUN										
15...	9827	9827	--	50	262	8.3	25.0	14.0	5	<25
24...	1028	1028	942	--	260	8.2	--	12.5	--	--
JUL										
20...	9827	9827	--	20400	277	7.8	30.0	13.0	5	2
22...	1028	1028	16000	--	230	7.7	--	12.5	--	--
29...	810	1028	17700	--	252	--	--	--	--	--
29...	810	810	--	--	230	7.1	--	14.0	0	1
AUG										
17...	9827	9827	--	50	272	7.7	26.0	18.0	10	1
24...	1028	1028	3620	--	240	7.7	--	14.0	--	--
SEP										
21...	9827	9827	--	3430	274	7.9	23.0	16.0	5	2

07054501 WHITE RIVER AT BULL SHOALS DAM, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)
OCT										
15...	--	4.8	--	--	--	--	--	--	--	--
20...	--	5.4	50	1.2	40	5	<4	110	0	34
NOV										
18...	--	5.8	54	.8	70	15	12	--	--	--
19...	--	6.3	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	1.1	--	1	--	--	--	--
08...	--	6.5	--	--	--	--	--	158	--	--
16...	--	8.6	78	.5	<10	5	<4	--	--	--
17...	--	8.2	--	--	--	--	--	--	--	--
JAN										
21...	--	11.8	--	--	--	--	--	--	--	--
26...	--	10.6	86	1.0	20	<5	<4	110	0	31
FEB										
23...	--	12.0	103	2.5	<7	4	4	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	10.8	96	1.3	<7	4	4	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
27...	36	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	12.4	--	--	--	--	--	146	--	--
APR										
20...	--	9.6	85	1.6	150	12	200	130	7	34
20...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	--	9.0	81	1.0	14	12	--	--	--	--
26...	--	8.4	--	--	--	--	--	--	--	--
JUN										
15...	--	8.6	83	1.2	67	12	--	--	--	--
24...	--	13.2	--	--	--	--	--	--	--	--
JUL										
20...	--	5.6	53	.6	13	<4	4	130	7	35
22...	--	4.7	--	--	--	--	--	--	--	--
29...	--	--	--	1.4	--	0	--	--	--	--
29...	--	5.0	--	--	--	--	--	128	--	--
AUG										
17...	--	8.9	94	4.1	87	28	--	--	--	--
24...	--	7.4	--	--	--	--	--	--	--	--
SEP										
21...	--	6.9	69	.8	100	8	12	--	--	--

07054501 WHITE RIVER AT BULL SHOALS DAM, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CALCIUM AS CACO3 (MG/L) (00910)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)
OCT										
15...	--	--	--	--	--	--	--	--	--	--
20...	86	7.0	2.3	1.0	150	0	123	2.4	4.0	4.0
NOV										
18...	--	--	--	--	--	--	--	--	4.0	10
19...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	1.9	--	--	--	--	5.8	2.8
08...	92	--	--	--	--	--	134	--	--	--
16...	--	--	--	--	--	--	--	--	3.0	4.0
17...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	--	--	--	--	--	--	--	--	--	--
26...	78	9.0	2.3	1.2	150	0	123	1.9	1.0	5.0
FEB										
23...	--	--	--	--	--	--	--	--	2.0	5.5
25...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	1.0	5.0
24...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	92	--	--	--	--	--	124	--	--	--
APR										
20...	84	12	2.0	1.1	150	0	123	1.9	4.0	4.5
20...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	--	--	--	--	--	--	--	--	3.0	5.0
26...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	--	--	--	--	--	--	--	--	4.0	5.5
24...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	88	9.0	3.2	1.3	150	0	123	3.8	6.0	4.5
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	1.2	--	--	--	--	6.5	3.6
29...	88	--	--	--	--	--	128	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	3.0	4.5
24...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	--	--	--	--	--	--	--	--	6.0	5.0

07054501 WHITE RIVER AT BULL SHOALS DAM, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)
OCT									
15...	--	--	--	--	--	--	--	--	--
20...	150	0	150	.54	--	--	--	--	--
NOV									
18...	136	3	139	.45	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
DEC									
08...	--	--	--	--	.25	.04	.26	.30	.55
08...	--	--	--	--	--	--	--	--	--
16...	139	4	143	.40	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
JAN									
21...	--	--	--	--	--	--	--	--	--
26...	120	18	138	.31	--	--	--	--	--
FEB									
23...	163	--	154	.30	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
MAR									
15...	141	4	145	.25	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
APR									
20...	136	9	145	.30	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
MAY									
18...	145	5	150	.31	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
JUN									
15...	--	--	--	.44	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
JUL									
20...	154	8	162	.30	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	.35	.00	.09	.09	.44
29...	--	--	--	--	--	--	--	--	--
AUG									
17...	149	4	153	.44	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
SEP									
21...	141	9	150	.45	--	--	--	--	--

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
SEP							
22...	1028	1028	2670	250	7.6	14.5	3.9

07054501 WHITE RIVER AT BULL SHOALS DAM, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)
OCT											
20...	--	<.01	--	--	<3	<10	0	<10	0	<10	27
NOV											
18...	--	<.01	--	--	--	--	--	--	--	--	--
DEC											
08...	2.4	.00	.00	40	0	--	0	60	40	<100	120
16...	--	<.01	--	--	--	--	--	--	--	--	--
JAN											
26...	--	<.01	--	--	<3	<10	<3	<10	30	20	60
FEB											
23...	--	<.01	--	--	--	--	--	--	--	--	--
MAR											
15...	--	<.01	--	--	--	--	--	--	--	--	--
APR											
20...	--	<.01	--	--	<3	<10	<3	<10	58	<10	27
MAY											
18...	--	<.01	--	--	--	--	--	--	--	--	--
JUN											
15...	--	.04	--	--	--	--	--	--	--	--	--
JUL											
20...	--	<.01	--	--	<3	<10	<3	<10	73	<10	<27
29...	1.9	.01	.01	60	1	--	0	200	40	<100	20
AUG											
17...	--	<.01	--	--	--	--	--	--	--	--	--
SEP											
21...	--	<.01	--	--	--	--	--	--	--	--	--

DATE	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT											
20...	--	--	<10	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC											
08...	.0	<50	50	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
JAN											
26...	--	--	<10	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	<10	--	--	--	--	--	--	--	--
MAY											
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	<10	--	--	--	--	--	--	--	--
29...	.0	<50	200	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--

07055000 WHITE RIVER NEAR FLIPPIN, AR

LOCATION.--Lat 36°18'35", long 92°33'28", NE¼NW¼ sec.10, T.19 N., R.15 W., Marion County, on right bank 1.4 mi (2.3 km) upstream from Hightower Creek, 3.2 mi (5.1 km) northeast of Flippin, 11.9 mi (19.1 km) downstream from Bull Shoals Dam, 11.8 mi (19.0 km) upstream from Crooked Creek, and at mile 406.7 (654.4 km).

DRAINAGE AREA.--6,081 mi^2 (15,750 km^2).

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 419.66 ft (127.912 m) above mean sea level (Corps of Engineers bench mark). Prior to Dec. 21, 1938, nonrecording gage at site 1.1 mi (1.7 km) upstream at datum 1.52 ft (0.463 m) higher.

REMARKS.-- Records good. Flow completely regulated by Bull Shoals Lake since July 24, 1951 (see station 07054500). Prior to this date some regulation at low flow by Lake Taneycomo (Missouri) 100 mi (161 km) upstream, capacity, 23,700 acre-ft (29.2 hm^3). Some regulation by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), and by Beaver Lake since Dec. 26, 1963 (see station 07049690).

AVERAGE DISCHARGE.--48 years, 6,093 ft^3/s (173 m^3/s), 4,414,000 acre-ft/yr (5,440 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 215,000 ft^3/s (6,090 m^3/s) Apr. 17, 1945, gage height, 39.82 ft (12.137 m); minimum daily, 90 ft^3/s (2.55 m^3/s) Aug. 3, 1949, caused by temporary storage behind Bull Shoals Dam upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 16, 1927 reached a stage of 45.4 ft (13.84 m) original site and datum, or about 41 ft (12.5 m), present site and datum, discharge, 240,000 ft^3/s (6,800 m^3/s), from data by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,000 ft^3/s (736 m^3/s) Aug. 4, gage height, 12.78 ft (3.895 m); minimum daily, 244 ft^3/s (6.91 m^3/s) Nov. 30.

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	1370	1100	3400	933	371	780	325	10500	7040	6940	16600	2290
2	1870	406	1310	1770	5130	1540	554	10500	5290	8260	15800	1310
3	2770	3670	2700	4590	4790	898	351	11200	5590	6490	15700	5000
4	1950	2470	1660	4570	4790	2950	317	11600	5920	6370	16000	7050
5	590	6440	935	4610	4890	2140	4120	9140	3690	6630	18600	3020
6	2880	5030	843	4420	2910	1290	4780	8210	1070	7740	17200	2920
7	956	2560	385	12000	1500	808	6460	10000	7040	5340	16800	5990
8	972	638	4940	9520	610	7340	6030	6250	6430	6680	16800	7590
9	777	382	3190	6960	693	5850	1940	2050	7030	8640	11900	2020
10	3610	4460	2210	2650	991	4480	541	9700	6520	6690	10600	462
11	2030	3720	4070	509	1430	7740	320	9540	7820	7920	8420	774
12	1140	6570	5040	5530	611	6930	1700	11300	8650	6590	5340	1090
13	10800	9710	955	5960	1220	3110	1820	11300	7630	6060	9950	4120
14	8880	8170	1050	5730	486	1070	4500	6100	7650	6640	2780	5470
15	5490	1140	6250	8680	314	7070	3580	1310	2370	11900	1090	7640
16	4660	341	6590	6990	951	8150	1030	632	1270	14400	6520	4790
17	3720	1280	10600	2900	476	6010	11200	6980	729	16300	5420	7100
18	1600	1230	10200	3230	1100	3630	4590	3130	630	16400	4560	9380
19	950	1060	7930	3260	1490	1250	4100	3480	925	14900	1400	4300
20	4630	7560	4880	1470	692	376	8410	5680	670	15600	1330	1400
21	5530	7210	2850	2480	323	310	10400	10300	561	15400	5420	1320
22	6170	1020	7530	3080	314	1820	10100	4510	3190	16000	6010	2670
23	9070	505	4980	3350	1030	1690	18600	1390	3450	16000	5500	5840
24	1390	5640	3060	2360	1550	1420	17800	3320	942	17100	3620	8180
25	256	5540	470	3270	1660	1370	16400	5060	3140	17200	3700	2230
26	248	3480	1580	7320	1880	1100	18200	7370	3780	15400	8090	1230
27	6040	1030	921	5080	2100	786	12700	7100	1660	16100	12200	13300
28	4340	363	589	802	1010	338	14200	6390	2400	17500	4000	4860
29	4560	441	5000	349	327	603	10900	1220	5540	17700	2020	7720
30	4200	244	3710	322	---	390	11200	1640	7710	17000	1310	8770
31	4180	---	2200	320	---	331	---	4420	---	17300	1570	---
TOTAL	107629	93410	112248	125015	45639	83570	209168	201522	126337	369190	256250	139836
MEAN	3472	3114	3621	4033	1574	2696	6972	6501	4211	11910	8266	4661
MAX	10800	9710	10600	12000	5130	8150	18600	11800	8650	17700	18600	13300
MIN	248	244	385	320	314	310	317	632	561	5340	1090	462
AC-FT	213500	185300	222600	248000	90520	165800	414900	399700	250600	732300	508300	277400

CAL YR 1975 TOTAL 2283177 MEAN 7899 MAX 25500 MIN 244 AC-FT 5719000
WTR YR 1976 TOTAL 1869814 MEAN 5109 MAX 18600 MIN 244 AC-FT 3709000

07055500 WHITE RIVER AT COTTER, AR

LOCATION.--Lat 36°16'02", long 92°32'39", in NW¼NW¼ sec.26, T.19 N., R.15 W., Marion County, temperature recorder on right bank, 300 ft (91 m) downstream from bridge on U.S. Highway 62, 2.0 mi (3.2 km) southwest of Cotter, 3.3 mi (5.3 km) downstream from Hightower Creek, and 17.0 mi (27.4 km) downstream from Bull Shoals Dam.

DRAINAGE AREA.--6,129 mi² (15,874 km²).

PERIOD OF RECORD.--October 1947 to July 1959, October 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1947 to May 1955, December 1955 to July 1959, October 1966 to current year.

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Records furnished by Arkansas Game and Fish Division, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.0°C Sept. 20, 1954, minimum, 0.0°C Feb. 8, 1971.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.0°C June 21; minimum, 1.5°C Feb. 8.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	11.5	14.0	14.0	9.5	11.5	10.0	4.0	7.0	8.0	6.0	7.0
2	13.5	10.0	11.5	13.5	11.0	12.5	10.5	7.0	9.0	7.0	5.5	6.5
3	13.0	9.5	11.0	14.0	11.0	12.5	10.5	7.0	9.0	6.5	5.0	6.0
4	12.5	8.5	10.5	13.5	11.0	12.5	10.5	8.0	9.0	5.0	3.5	4.0
5	15.5	10.5	13.0	14.0	10.5	12.5	10.5	9.5	10.0	5.0	3.0	4.0
6	15.5	11.0	13.5	14.5	10.5	12.0	10.0	8.5	9.0	---	---	---
7	14.0	10.0	12.0	14.5	10.5	12.5	9.5	7.0	8.5	---	---	---
8	16.5	12.5	14.5	15.0	10.5	13.0	9.5	6.5	8.0	---	---	---
9	16.0	10.5	13.5	17.5	13.5	15.5	9.5	8.5	9.0	---	---	---
10	13.0	11.0	14.5	15.0	10.5	13.0	10.0	7.0	8.5	---	---	---
11	16.0	10.5	13.5	12.5	9.5	11.0	10.5	8.0	9.0	---	---	---
12	16.5	11.0	14.0	11.5	9.5	10.5	10.5	9.5	10.0	---	---	---
13	14.5	10.5	12.5	12.5	10.0	11.0	11.5	9.5	10.5	8.0	5.0	6.5
14	14.0	10.5	12.5	12.5	9.5	11.0	13.5	11.0	12.5	7.0	4.5	6.0
15	13.0	11.5	12.5	13.0	9.0	11.0	11.5	8.0	10.0	6.5	4.5	5.5
16	13.0	11.5	12.5	12.5	7.0	10.0	10.0	8.0	9.0	6.0	4.5	5.5
17	13.0	11.0	12.0	13.5	9.0	11.0	9.5	7.0	8.5	6.0	3.5	4.5
18	12.5	11.0	11.5	13.0	9.5	11.0	9.0	6.5	8.0	6.0	4.5	5.5
19	13.0	10.0	11.5	13.0	9.0	11.0	9.5	6.5	8.0	6.0	5.0	5.5
20	12.5	9.0	10.5	11.0	9.0	10.0	8.5	7.0	8.0	6.5	4.0	5.5
21	12.5	9.5	11.0	11.0	9.0	10.0	9.0	7.0	8.0	6.5	3.5	5.0
22	13.5	10.0	11.5	10.5	6.0	8.5	9.0	6.5	8.0	6.5	4.0	5.5
23	11.5	10.5	11.0	10.0	6.0	8.0	9.0	8.0	8.5	7.0	4.0	5.5
24	13.0	10.5	13.0	10.0	5.5	8.0	8.5	7.5	8.0	8.0	4.5	6.0
25	13.5	10.5	12.0	10.0	8.5	9.0	7.5	5.0	6.0	6.0	5.0	5.5
26	13.0	9.0	11.0	9.5	6.5	8.0	6.5	4.5	5.5	6.0	4.5	5.5
27	14.0	10.5	12.5	9.0	5.5	7.0	6.5	5.5	6.0	5.0	4.0	4.5
28	---	---	---	6.0	4.5	5.5	7.5	5.5	6.5	5.5	4.0	4.5
29	12.5	10.0	11.0	13.5	6.0	10.0	8.5	5.0	6.5	5.5	3.5	4.5
30	13.0	9.5	11.0	13.0	5.5	9.0	8.0	7.0	7.5	6.5	4.5	5.5
31	11.0	9.0	10.0	---	---	---	8.5	6.5	7.5	6.0	4.5	5.5
MONTH	18.0	8.5	12.0	17.5	4.5	10.5	13.5	4.0	8.5	---	---	---

07055500 WHITE RIVER AT COTTER, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	4.0	5.0	13.5	11.0	12.5	13.5	8.0	10.5	9.5	7.0	8.5
2	5.0	3.5	4.0	14.0	8.5	11.0	14.0	8.5	11.0	9.5	7.0	8.5
3	5.5	4.0	4.5	15.0	9.5	12.5	15.5	10.0	13.0	9.5	8.0	8.5
4	5.0	4.5	4.5	15.0	9.5	12.5	17.0	13.5	15.5	10.0	7.0	8.5
5	5.0	4.5	4.5	12.5	8.0	10.0	16.5	10.5	14.0	9.5	8.0	8.5
6	4.5	4.0	4.0	10.0	7.0	8.5	12.5	9.0	10.5	10.5	8.0	9.0
7	4.0	2.0	3.0	10.0	6.5	8.5	10.5	6.0	8.5	10.0	8.0	9.0
8	5.0	1.5	3.5	8.0	5.5	6.5	10.5	6.0	8.5	10.5	7.0	9.0
9	6.0	3.5	4.5	7.0	5.0	6.0	12.5	5.5	9.0	14.5	6.5	10.5
10	8.5	5.5	7.0	8.0	5.0	6.5	14.5	7.0	11.0	13.0	8.0	10.5
11	9.5	6.5	8.0	8.0	5.5	6.5	18.0	11.0	14.5	10.0	8.0	9.0
12	8.0	5.0	6.5	9.5	5.0	7.0	17.0	9.5	13.5	10.5	8.0	9.0
13	9.0	5.5	7.0	9.5	5.0	7.0	10.0	8.0	9.0	9.0	8.5	8.5
14	10.0	7.0	8.5	11.0	5.5	8.5	9.0	6.5	8.0	10.5	8.0	9.0
15	12.5	10.0	11.0	10.5	6.5	8.5	9.0	6.5	8.0	11.5	8.5	10.0
16	12.5	11.0	12.5	14.0	5.5	10.0	9.0	6.5	8.0	14.0	10.5	12.5
17	11.0	9.0	10.0	9.0	5.5	7.0	8.0	7.0	7.5	13.0	9.0	11.0
18	10.0	6.0	8.0	9.5	5.5	7.5	10.5	7.0	9.0	12.5	8.0	10.0
19	10.0	6.0	8.0	12.5	6.5	9.5	10.0	8.0	9.0	14.0	9.0	11.5
20	9.0	6.0	7.5	15.5	11.0	13.5	9.5	7.0	8.5	14.0	8.0	11.0
21	11.0	9.0	10.0	15.0	10.0	12.5	13.5	6.5	10.0	12.5	8.0	10.0
22	9.0	7.0	8.0	13.0	6.5	10.0	14.5	13.0	14.0	15.0	8.5	11.5
23	9.5	6.0	8.0	12.5	5.5	9.0	13.5	8.5	11.0	16.0	8.5	12.5
24	9.5	5.0	7.0	9.5	7.0	8.5	14.5	7.0	11.0	16.0	9.5	13.0
25	10.0	6.0	8.0	11.0	6.5	9.0	9.0	7.0	8.0	13.0	8.5	10.5
26	10.0	7.0	8.5	13.0	9.5	11.0	9.5	8.0	8.5	10.0	8.5	9.0
27	10.0	6.5	8.5	13.5	6.5	10.0	9.0	7.0	8.0	9.5	8.5	9.0
28	10.5	8.0	9.0	11.0	9.0	10.0	8.0	7.0	7.5	12.5	9.0	10.5
29	11.5	7.0	9.5	13.5	10.0	11.5	8.5	7.0	8.0	17.5	9.5	13.5
30	---	---	---	11.5	9.0	10.5	9.0	6.5	8.0	18.0	13.0	15.5
31	---	---	---	12.5	8.0	10.0	---	---	---	14.0	9.5	11.5
MONTH	12.5	1.5	7.0	15.5	5.0	9.5	18.0	5.5	10.0	18.0	6.5	10.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	9.0	11.5	16.0	13.0	14.5	13.0	11.0	12.0	17.0	13.5	15.5
2	14.5	9.0	11.5	15.5	10.0	13.0	13.5	12.5	13.0	18.0	14.5	16.0
3	16.0	9.0	12.5	11.0	10.0	10.5	13.5	11.5	12.5	16.5	13.5	15.0
4	10.5	9.0	10.0	13.0	10.5	11.5	13.5	11.5	12.5	19.5	13.5	16.0
5	13.0	9.0	11.0	13.5	10.0	11.5	13.5	12.5	13.0	20.5	15.0	18.0
6	17.0	10.0	14.0	13.0	10.0	11.5	14.0	13.0	13.5	19.5	13.5	16.5
7	18.5	9.5	14.0	16.5	10.5	14.0	14.0	12.5	13.0	18.5	13.5	16.0
8	15.0	9.0	12.0	16.0	10.0	13.0	13.5	12.5	13.0	17.0	13.5	15.5
9	14.5	9.0	11.5	16.0	10.0	13.0	15.0	12.5	14.0	15.5	13.5	14.5
10	15.5	9.0	12.5	16.5	10.0	13.5	16.0	12.5	14.0	18.5	13.0	15.5
11	14.5	9.0	11.5	17.0	10.5	14.0	18.5	13.0	15.5	19.0	13.5	16.0
12	15.0	9.5	12.5	17.0	10.5	14.0	18.5	13.0	15.5	19.5	13.5	16.5
13	15.5	9.5	12.5	18.0	10.5	14.0	16.0	13.0	14.5	19.5	13.5	16.5
14	14.5	10.0	12.5	17.0	10.5	14.0	18.5	13.0	15.5	18.0	14.0	16.0
15	13.5	10.0	11.5	15.5	10.5	13.0	16.5	15.0	16.0	---	---	---
16	15.5	12.5	14.0	12.5	10.5	11.5	19.5	13.5	16.5	---	---	---
17	20.5	14.0	17.5	11.5	10.0	11.0	19.5	13.5	16.5	---	---	---
18	18.5	15.0	16.5	11.5	10.0	11.0	19.5	13.5	16.5	16.5	13.5	15.0
19	19.5	15.0	17.0	12.5	10.5	11.5	19.5	13.0	16.0	16.0	13.5	15.0
20	21.5	14.0	18.0	13.0	10.5	11.5	20.5	14.5	17.5	16.5	14.5	15.5
21	21.0	15.5	18.5	13.0	10.5	11.5	20.5	13.0	16.5	17.0	14.5	16.0
22	20.0	10.5	15.5	13.0	11.0	12.0	19.0	13.0	16.0	18.0	13.5	15.5
23	17.0	10.0	14.0	13.0	11.0	12.0	19.0	13.0	16.0	18.0	13.5	15.5
24	18.5	12.5	15.5	13.0	11.0	12.0	18.0	14.0	16.0	18.0	15.5	16.5
25	17.5	11.0	14.0	13.0	11.5	12.5	19.0	13.5	16.0	16.5	13.0	15.0
26	16.5	10.5	14.0	14.0	11.5	13.0	18.5	13.5	16.0	16.5	13.5	15.0
27	17.5	10.5	14.0	14.0	11.5	13.0	16.5	13.0	15.0	15.0	14.0	14.5
28	20.5	14.0	17.0	13.5	11.5	12.5	17.5	13.5	15.5	15.5	13.5	14.5
29	22.0	14.5	18.5	15.5	11.5	14.0	18.5	13.5	16.0	14.0	13.5	14.0
30	18.5	14.0	16.0	13.5	11.5	12.5	19.0	13.5	16.0	14.5	13.0	14.0
31	---	---	---	13.0	11.5	12.5	18.0	13.5	15.5	---	---	---
MONTH	22.0	9.0	14.0	18.0	10.0	12.5	20.5	11.0	15.0	20.5	13.0	15.5

07055600 CROOKED CREEK AT PYATT, AR

LOCATION.--Lat 36°14'36", long 92°50'12", SW¼ sec.31, T.19 N., R.17 W., Marion County, at bridge on U.S. Highway 62, 0.7 mi (1.1 km) southeast of Pyatt, 2.3 mi (3.7 km) upstream from Clear Creek.

DRAINAGE AREA.--207 mi^2 (536 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
20...	9827	9827	20	286	8.0	11.0	12.0	10	5	8.3
NOV										
18...	9827	9827	28	297	8.0	12.0	10.0	5	2	9.6
DEC										
16...	9827	9827	5.0	259	8.1	1.0	7.0	10	10	11.0
JAN										
26...	9827	9827	.00	333	8.2	.0	5.0	--	2	12.2
FEB										
23...	9827	9827	42	310	8.2	5.0	6.0	5	1	11.4
MAR										
15...	9827	9827	88	311	8.3	17.0	13.0	5	2	11.0
APR										
20...	9827	9827	48	348	8.2	17.0	18.0	5	7	8.0
MAY										
18...	9827	9827	--	308	8.2	18.0	15.0	10	3	9.1
JUN										
15...	9827	9827	--	305	8.2	24.0	22.0	5	<25	7.3
JUL										
20...	9827	9827	--	346	8.0	25.0	18.0	10	4	8.1
AUG										
17...	9827	9827	57	342	8.0	26.0	24.0	5	7	6.7
SEP										
21...	9827	9827	--	325	8.1	17.0	17.0	5	3	7.2

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
20...	<10	--	--	--	--	--	--	--	--
NOV									
18...	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
16...	--	--	--	--	--	--	--	--	--
JAN									
26...	<10	--	--	--	--	--	--	--	--
FEB									
23...	--	--	--	--	--	--	--	--	--
MAR									
15...	--	--	--	--	--	--	--	--	--
APR									
20...	20	--	--	--	--	--	--	--	--
MAY									
18...	--	--	--	--	--	--	--	--	--
JUN									
15...	--	--	--	--	--	--	--	--	--
JUL									
20...	<10	--	--	--	--	--	--	--	--
AUG									
17...	--	--	--	--	--	--	--	--	--
SEP									
21...	--	--	--	--	--	--	--	--	--

07055600 CROOKED CREEK AT PYATT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
20...	77	.6	<10	15	48	140	0	43	110	8.0
NOV										
18...	85	.7	80	28	55	--	--	--	--	--
DEC										
16...	90	1.1	620	950	500	--	--	--	--	--
JAN										
26...	96	1.8	69	13	28	150	0	24	60	21
FEB										
23...	91	1.7	24	15	5	--	--	--	--	--
MAR										
15...	104	1.3	50	15	10	--	--	--	--	--
APR										
20...	84	1.6	470	330	610	160	0	54	130	7.0
MAY										
18...	89	1.3	73	68	--	--	--	--	--	--
JUN										
15...	83	1.5	250	44	--	--	--	--	--	--
JUL										
20...	85	1.6	120	4	95	160	4	54	140	6.0
AUG										
17...	79	.9	270	28	--	--	--	--	--	--
SEP										
21...	74	.8	500	100	240	--	--	--	--	--

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
20...	7.9	1.6	190	0	156	3.0	5.0	9.0	196	5
NOV										
18...	--	--	--	--	--	--	3.0	5.0	182	5
DEC										
16...	--	--	--	--	--	--	6.0	6.0	178	12
JAN										
26...	4.4	1.0	200	0	164	2.0	4.0	7.5	166	27
FEB										
23...	--	--	--	--	--	--	4.0	9.0	202	6
MAR										
15...	--	--	--	--	--	--	2.0	5.5	171	5
APR										
20...	4.2	1.3	200	0	164	2.0	4.0	6.5	188	2
MAY										
18...	--	--	--	--	--	--	2.0	5.5	169	3
JUN										
15...	--	--	--	--	--	--	2.0	5.0	185	4
JUL										
20...	5.1	1.3	190	0	156	3.0	4.0	6.0	188	15
AUG										
17...	--	--	--	--	--	--	1.0	7.0	186	18
SEP										
21...	--	--	--	--	--	--	5.0	9.0	175	7

07055600 CROOKED CREEK AT PYATT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
20...	201	<.10	<.01	<3	<10	0	<10	26	<10	30
NOV										
18...	187	.32	.01	--	--	--	--	--	--	--
DEC										
16...	190	.51	.01	--	--	--	--	--	--	--
JAN										
26...	193	.83	<.01	<3	<10	<3	<10	27	<10	<27
FEB										
23...	196	.92	<.01	--	--	--	--	--	--	--
MAR										
15...	176	.38	<.01	--	--	--	--	--	--	--
APR										
20...	190	.50	<.01	<3	<10	<3	10	220	<10	65
MAY										
18...	166	.39	<.01	--	--	--	--	--	--	--
JUN										
15...	181	.55	.09	--	--	--	--	--	--	--
JUL										
20...	203	.54	.02	<3	<10	<3	<10	87	<10	<27
AUG										
17...	204	.75	.03	--	--	--	--	--	--	--
SEP										
21...	182	.44	<.01	--	--	--	--	--	--	--

07056000 BUFFALO RIVER NEAR ST. JOE, AR

LOCATION.--Lat 35°59'02", long 92°44'44", in SW¼SW¼ sec.36, T.16 N., R.17 W., Searcy County, near right bank on downstream side of bridge on U.S. Highway 65, 1.6 mi (2.6 km) downstream from Mill Creek, 5.4 mi (8.7 km) upstream from Bear Creek, 4.5 mi (7.2 km) southeast of St. Joe, and at mile 58.3 (93.8 km).

DRAINAGE AREA.--829 mi^2 (2,147 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1211: 1945(M), 1949(M). WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 560.35 ft (170.795 m) above mean sea level. Prior to Mar. 1, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--37 years, 1,048 ft^3/s (29.7 m^3/s), 17.25 in/yr (438 mm/yr), 759,300 acre-ft/yr (936 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111,000 ft^3/s (3,140 m^3/s) Nov. 25, 1973, gage height, 45.41 ft (13.841 m); minimum, 6.6 ft^3/s (0.19 m^3/s) Sept. 16, 17, 20, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 50.5 ft (15.39 m) in August 1915, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,700 ft^3/s (728 m^3/s) June 24 at 0300 hours, gage height, 21.40 ft (6.523 m), no other peaks above base of 13,000 ft^3/s (368 m^3/s); minimum, 31 ft^3/s (0.88 m^3/s) Sept. 25, 28-30.

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	132	47	567	2020	283	418	911	900	1310	1000	179	46
2	125	47	681	1500	264	397	801	790	1120	722	158	44
3	121	50	512	1170	258	373	720	677	954	760	153	45
4	117	48	405	959	246	353	658	582	801	1470	143	43
5	112	48	369	811	236	477	601	503	750	2090	128	41
6	108	47	2970	711	224	986	553	455	884	1260	118	40
7	102	50	2890	648	215	837	517	418	858	945	110	39
8	98	53	1550	596	210	826	481	369	701	765	105	39
9	92	59	1070	531	204	4770	443	334	591	639	96	38
10	92	61	821	455	201	4830	405	304	508	549	90	37
11	86	61	662	422	198	2980	377	290	439	477	84	36
12	78	61	553	405	198	2310	349	277	389	418	80	37
13	74	61	477	385	198	1900	330	304	346	369	75	36
14	70	61	422	357	195	1490	315	451	308	327	74	35
15	66	62	629	327	195	1260	301	490	287	297	77	35
16	64	64	1710	308	193	1130	287	563	315	280	92	35
17	57	64	1260	287	190	992	277	553	515	255	91	34
18	53	64	954	271	207	874	267	464	490	236	80	34
19	52	66	765	255	308	790	264	393	670	221	73	33
20	50	82	648	246	312	735	304	330	745	207	69	33
21	50	96	567	239	397	677	3240	287	560	195	66	34
22	48	148	499	233	842	605	2250	261	438	182	62	33
23	48	221	443	227	847	540	1520	252	4200	168	59	33
24	48	213	401	221	735	495	1400	965	18000	158	56	33
25	50	198	393	230	653	473	3620	1180	11600	145	57	32
26	47	184	397	301	586	460	2790	801	5730	136	55	35
27	48	174	393	373	531	468	1940	1410	3230	130	53	36
28	48	163	405	361	481	464	1440	6220	2220	123	51	32
29	48	161	2900	342	443	610	1180	3510	1620	127	48	33
30	47	176	4570	319	---	954	1030	2220	1240	127	45	32
31	47	---	2850	301	---	1050	---	1590	---	210	45	---
TOTAL	2278	2890	33733	15811	10050	35524	29571	28143	61819	14988	2672	1093
MEAN	73.5	96.3	1088	510	347	1146	986	908	2061	483	86.2	36.4
MAX	132	221	4570	2020	847	4830	3620	6220	18000	2090	179	46
MIN	47	47	369	221	190	353	264	252	287	123	45	32
CFSM	.09	.12	1.31	.62	.42	1.38	1.19	1.10	2.49	.58	.10	.04
IN.	.10	.13	1.51	.71	.45	1.59	1.33	1.26	2.77	.67	.12	.05
AC-FT	4520	5730	66910	31360	19930	70460	58650	55820	122600	29730	5300	2170

CAL YR 1975 TOTAL 388960 MEAN 1066 MAX 17700 MIN 47 CFSM 1.29 IN 17.45 AC-FT 771500
WTR YR 1976 TOTAL 238572 MEAN 652 MAX 18000 MIN 32 CFSM .79 IN 10.71 AC-FT 473200

07056000 BUFFALO RIVER NEAR ST. JOE, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-57, April 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1956 to September 1957.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
20...	9827	9827	50	238	8.0	7.0	12.0	5	4	8.6
NOV										
18...	9827	9827	64	247	8.0	9.0	11.0	5	2	10.0
24...	1028	1028	216	--	--	--	7.0	--	--	--
DEC										
16...	9827	9827	1850	151	8.0	.0	7.0	40	30	10.5
JAN										
09...	1028	1028	502	--	--	-3.0	6.0	--	--	--
26...	9827	9827	255	220	8.1	1.0	5.0	0	2	11.6
FEB										
17...	1028	1028	178	--	--	20.0	13.0	--	--	--
23...	9827	9827	875	190	8.1	.0	7.0	10	6	12.1
MAR										
15...	9827	9827	1290	155	8.1	12.0	11.0	15	9	10.5
APR										
01...	1028	1028	912	--	--	--	12.0	--	--	--
20...	9827	9827	290	230	8.0	16.0	18.0	10	6	8.3
MAY										
05...	1028	1028	488	--	--	22.0	18.0	--	--	--
18...	9827	9827	474	223	8.2	19.0	16.0	15	5	8.9
JUN										
15...	9827	9827	233	237	8.1	23.0	24.0	10	<25	7.2
23...	1028	1028	436	--	--	23.0	22.0	--	--	--
JUL										
20...	9827	9827	209	267	7.9	18.0	17.0	10	2	7.0
AUG										
03...	1028	1028	163	--	--	28.0	27.0	--	--	--
17...	9827	9827	93	258	8.0	23.0	24.0	10	4	6.4
SEP										
15...	1028	1028	38	--	--	28.0	24.0	--	--	--
21...	9827	9827	26	291	8.1	13.0	19.0	10	4	6.6

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
20...	80	.6	120	14	120	130	0	42	110	6.0
NOV										
18...	89	.8	38	7	20	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
DEC										
16...	86	1.0	520	830	700	--	--	--	--	--
JAN										
09...	--	--	--	--	--	--	--	--	--	--
26...	91	1.2	260	63	5	98	0	30	76	5.0
FEB										
17...	--	--	--	--	--	--	--	--	--	--
23...	97	2.3	110	50	72	--	--	--	--	--
MAR										
15...	95	1.0	40	15	16	--	--	--	--	--
APR										
01...	--	--	--	--	--	--	--	--	--	--
20...	87	1.1	270	130	68	100	2	36	90	3.0
MAY										
05...	--	--	--	--	--	--	--	--	--	--
18...	89	.6	13	28	--	--	--	--	--	--
JUN										
15...	85	.7	190	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	72	1.1	100	<10	10	120	5	42	110	3.0
AUG										
03...	--	--	--	--	--	--	--	--	--	--
17...	75	.8	280	30	--	--	--	--	--	--
SEP										
15...	--	--	--	--	--	--	--	--	--	--
21...	70	.9	190	44	160	--	--	--	--	--

07056000 BUFFALO RIVER NEAR ST. JOE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
20...	2.5	1.0	160	0	131	2.6	5.0	4.5	156	7
NOV										
18...	--	--	--	--	--	--	5.0	5.0	150	3
24...	--	--	--	--	--	--	--	--	--	--
DEC										
16...	--	--	--	--	--	--	4.0	4.0	121	19
JAN										
09...	--	--	--	--	--	--	--	--	--	--
26...	2.1	.1	120	0	98	1.5	3.0	4.5	103	18
FEB										
17...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	6.0	4.5	129	3
MAR										
15...	--	--	--	--	--	--	3.0	3.0	93	18
APR										
01...	--	--	--	--	--	--	--	--	--	--
20...	1.9	.1	120	0	98	1.9	3.0	3.0	115	16
MAY										
05...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	4.0	4.0	127	13
JUN										
15...	--	--	--	--	--	--	3.0	4.0	140	4
23...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	2.9	.9	140	0	115	2.8	5.0	4.0	150	2
AUG										
03...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	2.0	4.0	142	6
SEP										
15...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	3.0	5.0	148	15

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
20...	163	<.10	<.01	<3	<10	0	<10	51	40	29
NOV										
18...	153	<.10	<.01	--	--	--	<10	98	30	23
24...	--	--	--	--	--	--	--	--	--	--
DEC										
16...	140	.32	.02	--	--	--	<10	1100	390	58
JAN										
09...	--	--	--	--	--	--	--	--	--	--
26...	121	.10	<.01	<3	<10	<3	<10	110	480	41
FEB										
17...	--	--	--	--	--	--	--	--	--	--
23...	132	.13	<.01	--	--	--	<10	290	310	<27
MAR										
15...	111	<.10	<.01	<1	--	--	<10	360	20	43
APR										
01...	--	--	--	--	--	--	--	--	--	--
20...	131	.10	<.01	<3	<10	<3	<10	110	<10	<27
MAY										
05...	--	--	--	--	--	--	--	--	--	--
18...	140	<.10	.01	--	--	--	<10	270	10	<27
JUN										
15...	136	.18	.07	--	--	--	<10	88	40	55
23...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	148	.10	<.01	<3	<10	<3	<10	44	<10	<27
AUG										
03...	--	--	--	--	--	--	--	--	--	--
17...	148	<.10	.01	--	<10	--	<10	140	130	49
SEP										
15...	--	--	--	--	--	--	--	--	--	--
21...	163	<.10	<.01	--	--	--	<10	240	30	40

07056000 BUFFALO RIVER NEAR ST. JOE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
20...	<10	--	--	--	--	--	--	--	--
NOV									
18...	<10	.00	.00	.00	.00	.00	.00	.00	<1
24...	--	--	--	--	--	--	--	--	--
DEC									
16...	10	--	--	--	--	--	--	--	--
JAN									
09...	--	--	--	--	--	--	--	--	--
26...	30	--	--	--	--	--	--	--	--
FEB									
17...	--	--	--	--	--	--	--	--	--
23...	<10	--	--	--	--	--	--	--	--
MAR									
15...	20	--	--	--	--	--	--	--	--
APR									
01...	--	--	--	--	--	--	--	--	--
20...	<10	--	--	--	--	--	--	--	--
MAY									
05...	--	--	--	--	--	--	--	--	--
18...	20	--	--	--	--	--	--	--	--
JUN									
15...	20	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
JUL									
20...	10	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
17...	<10	--	--	--	--	--	--	--	--
SEP									
15...	--	--	--	--	--	--	--	--	--
21...	<10	--	--	--	--	--	--	--	--

07057370 WHITE RIVER NEAR NORFORK, AR

LOCATION.--Lat 36°13'24", long 92°18'06", in sec.17, T.18 N., R.12 W., Baxter County, at bridge on State Highway 341, and 1.7 mi (2.7 km) northwest of Norfork.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)
OCT 20...	9827	9827	340	--	241	8.1	25.0	14.0	5	4	10.2	98
NOV 18...	9827	9827	1770	--	244	8.1	15.0	13.0	5	2	10.3	97
DEC 16...	9827	9827	9410	--	203	8.0	4.0	9.0	5	5	10.0	86
JAN 26...	9827	9827	4040	--	261	8.2	.0	5.0	5	2	12.0	94
FEB 23...	9827	9827	150	--	227	8.3	9.0	9.0	5	2	12.0	103
MAR 15...	9827	9827	3160	--	204	8.2	17.0	14.0	15	8	11.0	106
APR 20...	9827	9827	5640	--	265	8.2	21.0	14.0	5	4	10.2	98
MAY 18...	9827	9827	7200	--	249	8.2	18.0	13.0	10	3	10.4	98
JUN 15...	9827	9827	7960	--	256	8.1	26.0	15.0	5	<25	9.3	91
JUL 20...	9827	9827	16100	--	280	7.9	32.0	14.0	10	2	8.0	77
AUG 17...	9827	9827	7320	--	267	8.0	29.0	20.0	5	2	8.3	90
SEP 21...	9827	9827	--	2200	286	8.2	20.0	17.0	5	2	9.3	96

DATE	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)
OCT 20...	.4	30	4	<4	130	0	35	88	10	2.4	1.0	160
NOV 18...	.9	120	8	4	--	--	--	--	--	--	--	--
DEC 16...	.7	260	370	250	--	--	--	--	--	--	--	--
JAN 26...	1.5	40	4	12	120	0	30	76	11	2.3	1.2	160
FEB 23...	1.1	<10	4	8	--	--	--	--	--	--	--	--
MAR 15...	1.0	<10	<4	<4	--	--	--	--	--	--	--	--
APR 20...	1.0	180	120	220	130	7	37	92	9.0	2.1	1.0	150
MAY 18...	.9	47	20	--	--	--	--	--	--	--	--	--
JUN 15...	.3	33	--	--	--	--	--	--	--	--	--	--
JUL 20...	.9	67	10	35	130	7	34	86	11	3.3	1.3	150
AUG 17...	.5	140	60	--	--	--	--	--	--	--	--	--
SEP 21...	.6	13	8	28	--	--	--	--	--	--	--	--

07057370 WHITE RIVER NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)
OCT												
20...	0	131	2.0	5.0	4.0	155	3	158	.35	<.01	<3	<10
NOV												
18...	--	--	--	4.0	5.0	148	4	152	.42	<.01	--	--
DEC												
16...	--	--	--	4.0	4.5	136	11	147	.40	<.01	--	--
JAN												
26...	0	131	1.6	--	5.0	122	15	137	.27	<.01	<3	<10
FEB												
23...	--	--	--	5.0	5.0	150	4	146	<.10	<.01	--	--
MAR												
15...	--	--	--	3.0	4.0	114	17	131	.10	<.01	--	--
APR												
20...	0	123	1.5	3.0	3.0	138	11	149	.20	.03	<3	<10
MAY												
18...	--	--	--	3.0	5.0	148	9	157	.18	<.01	--	--
JUN												
15...	--	--	--	4.0	6.0	148	1	149	.30	.11	--	--
JUL												
20...	0	123	3.0	4.0	5.0	155	9	164	.24	.01	<3	<10
AUG												
17...	--	--	--	3.0	5.0	145	6	151	.31	<.01	--	<10
SEP												
21...	--	--	--	6.0	5.0	146	3	149	.25	<.01	--	--

DATE	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)
OCT												
20...	0	<10	0	10	23	<10	--	--	--	--	--	--
NOV												
18...	--	<10	64	50	32	<10	--	--	--	--	--	--
DEC												
16...	--	<10	150	310	75	<10	.00	.00	.00	.00	.00	.00
JAN												
26...	<3	<10	100	1400	68	40	--	--	--	--	--	--
FEB												
23...	--	<10	54	160	<27	<10	--	--	--	--	--	--
MAR												
15...	--	<10	270	60	81	30	--	--	--	--	--	--
APR												
20...	<3	<10	120	70	45	20	--	--	--	--	--	--
MAY												
18...	--	<10	86	<10	<27	10	--	--	--	--	--	--
JUN												
15...	--	<10	<17	150	<27	20	--	--	--	--	--	--
JUL												
20...	<3	<10	33	40	39	<10	--	--	--	--	--	--
AUG												
17...	--	<10	32	20	220	<10	--	--	--	--	--	--
SEP												
21...	--	10	120	50	27	<10	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR

LOCATION.--Lat 36°14'57", long 92°14'16", in SE¼ sec.2, T.18 N., R.12 W., Baxter County, at dam on North Fork River, 4.3 mi (6.9 km) northeast of Norfork, and at mile 4.8 (7.7 km).
DRAINAGE AREA.--1,808 mi² (4,683 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1943 to current year. Prior to October 1969, published as Norfork Reservoir near Norfork.
REVISED RECORDS.--WRD Ark. 1973: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Feb. 1, 1945, nonrecording gage at present site and datum.
REMARKS.--Lake is formed by concrete-gravity dam. Storage began on June 18, 1943, and bottom of power pool was first reached Mar. 31, 1944. Capacity between elevations 552.0 ft (168.25 m) and 580.0 ft (176.78 m) is 731,800 acre-ft (902 hm³) and is reserved for flood-control storage. Lake is used for flood-control, water-supply, power-development, and recreational purposes. Figures given herein represent total contents. Contents computed from daily readings at 2400 hours to five significant figures prior to Oct. 1, 1963. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates	580.0 (176.78 m)	1,983,000 (2,450 hm³)
Crest of gated spillway and top of designated power pool	552.0 (168.25 m)	1,251,200 (1,540 hm³)
Bottom of designated power pool	510.0 (155.45 m)	544,200 (671 hm³)
Bottom of lowest outlet	395.0 (120.40 m)	2,500 (3.08 hm³)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,954,000 acre-ft (2,410 hm³) May 10, 1973, elevation, 579.04 ft (176.491 m); minimum since power-pool level was first reached, 541,500 acre-ft (668 hm³) Sept. 21, 1954, elevation, 509.78 ft (155.381 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,262,000 acre-ft (1,560 hm³) July 6, elevation, 552.50 ft (168.402 m); minimum, 1,070,000 acre-ft (1,320 hm³) Dec. 4, elevation, 543.30 ft (165.598 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

543	1,064	549	1,186
546	1,124	553	1,273

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1229000	1171000	1079000	1174000	1165000	1128000	1167000	1177000	1233000	1251000	1216000	1124000
2	1230000	1172000	1074000	1180000	1160000	1127000	1167000	1180000	1234000	1254000	1215000	1121000
3	1227000	1168000	1072000	1184000	1156000	1126000	1170000	1181000	1234000	1257000	1216000	1120000
4	1228000	1167000	1070000	1188000	1150000	1128000	1172000	1183000	1236000	1259000	1216000	1119000
5	1230000	1168000	1092000	1187000	1145000	1128000	1169000	1183000	1238000	1261000	1218000	1118000
6	1226000	1166000	1123000	1186000	1140000	1130000	1165000	1186000	1240000	1260000	1215000	1117000
7	1222000	1168000	1134000	1184000	1141000	1132000	1161000	1188000	1240000	1261000	1212000	1112000
8	1219000	1169000	1140000	1179000	1142000	1132000	1156000	1190000	1240000	1259000	1211000	1108000
9	1217000	1170000	1142000	1175000	1140000	1132000	1151000	1191000	1239000	1256000	1208000	1106000
10	1214000	1166000	1146000	1178000	1141000	1136000	1150000	1193000	1238000	1252000	1204000	1106000
11	1214000	1162000	1146000	1180000	1138000	1138000	1150000	1194000	1236000	1249000	1201000	1106000
12	1215000	1156000	1144000	1180000	1134000	1141000	1143000	1196000	1235000	1246000	1197000	1106000
13	1211000	1151000	1148000	1180000	1131000	1143000	1142000	1199000	1234000	1243000	1193000	1101000
14	1208000	1145000	1151000	1178000	1133000	1146000	1138000	1201000	1230000	1240000	1191000	1097000
15	1204000	1146000	1157000	1177000	1134000	1149000	1134000	1203000	1229000	1239000	1193000	1092000
16	1201000	1147000	1161000	1173000	1134000	1150000	1133000	1206000	1227000	1238000	1188000	1086000
17	1197000	1143000	1159000	1174000	1133000	1151000	1132000	1207000	1224000	1239000	1183000	1082000
18	1198000	1138000	1154000	1174000	1132000	1152000	1134000	1209000	1223000	1240000	1178000	1082000
19	1198000	1134000	1147000	1171000	1130000	1154000	1139000	1205000	1224000	1238000	1173000	1082000
20	1195000	1129000	1145000	1169000	1130000	1158000	1142000	1204000	1225000	1236000	1169000	1078000
21	1193000	1122000	1140000	1170000	1133000	1159000	1147000	1201000	1222000	1233000	1164000	1076000
22	1188000	1118000	1132000	1170000	1134000	1161000	1151000	1202000	1218000	1229000	1159000	1076000
23	1182000	1117000	1127000	1171000	1130000	1162000	1156000	1204000	1232000	1227000	1155000	1074000
24	1186000	1110000	1125000	1173000	1128000	1164000	1163000	1201000	1248000	1225000	1150000	1072000
25	1186000	1104000	1130000	1176000	1128000	1166000	1168000	1201000	1253000	1225000	1145000	1072000
26	1187000	1098000	1128000	1174000	1127000	1167000	1168000	1203000	1255000	1221000	1140000	1074000
27	1182000	1091000	1130000	1171000	1128000	1165000	1168000	1214000	1256000	1218000	1136000	1074000
28	1178000	1085000	1134000	1168000	1128000	1166000	1169000	1219000	1254000	1212000	1130000	1074000
29	1178000	1086000	1148000	1168000	1130000	1168000	1171000	1224000	1253000	1218000	1130000	1073000
30	1174000	1085000	1159000	1166000	---	1167000	1174000	1228000	1250000	1216000	1127000	1071000
31	1170000	---	1168000	1165000	---	1166000	---	1231000	---	1216000	1126000	---
MAX	1230000	1172000	1168000	1188000	1165000	1168000	1174000	1231000	1256000	1261000	1218000	1124000
MIN	1170000	1085000	1070000	1165000	1127000	1126000	1132000	1177000	1218000	1212000	1126000	1071000
(†)	548.21	544.04	548.11	548.00	546.26	548.05	548.40	551.09	551.97	550.38	546.07	543.35
(‡)	-57000	-85000	+83000	-3000	-35000	+36000	+800	+57000	+19000	-34000	-90000	-55000

CAL YR 1975 MAX 1434000 MIN 1070000 ‡-107000
WTR YR 1976 MAX 1261000 MIN 1070000 ‡-156000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-69, 1971-72, December 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC											
09...	810	--	--	--	--	--	--	--	--	--	--
09...	810	1028	.0	--	--	--	1	--	--	--	--
09...	810	810	10	0	5	--	--	180	82	--	162
09...	810	1028	25	--	--	1.3	--	--	--	1.1	--
09...	810	810	25	0	5	--	--	180	86	--	168
09...	810	810	50	0	10	--	--	170	84	--	188
09...	810	810	75	0	7	--	--	166	80	--	190
09...	810	1028	100	--	--	.8	--	--	--	1.4	--
09...	810	810	100	0	8	--	--	178	84	--	172
09...	810	810	125	0	10	--	--	182	88	--	174
09...	810	810	150	0	10	--	--	192	86	--	176

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
DEC										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	4.7	2.4	.12	.05	.34	.39	.51	2.3	.15	.12
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	5.5	2.0	.14	.04	.35	.39	.53	2.3	.01	.01
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
DEC										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	70	1	0	90	100	<100	110	.0	<50	90
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	40	0	0	90	50	<100	80	.0	<50	90
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CaCO3 (MG/L) (00910)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	ALKA-LINITY AS CACO3 (MG/L) (00410)
MAR											
26...	810	1028	.0	--	--	--	0	--	--	--	--
26...	810	--	--	--	--	--	--	--	--	--	--
26...	810	1028	25	--	--	1.0	--	--	--	1.6	--
26...	810	810	25	5	0	--	--	132	80	--	162
26...	810	1028	100	--	--	2.4	--	--	--	1.3	--
26...	810	810	100	4	1	--	--	168	84	--	162

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO-GEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)
MAR										
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	4.8	2.4	.22	.04	.16	.20	.42	1.9	.02	.01
26...	--	--	--	--	--	--	--	--	--	--
26...	4.1	2.2	.28	.03	.12	.15	.43	1.9	.02	.01
26...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
MAR										
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	70	0	10	110	80	<100	40	.0	<50	130
26...	--	--	--	--	--	--	--	--	--	--
26...	60	0	20	100	80	<100	30	.0	<50	140
26...	--	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
JUL											
30...	810	--	--	--	--	--	--	--	--	--	--
30...	810	1028	.6	--	--	--	0	--	--	--	--
30...	810	810	10	0	0	--	--	158	72	--	142
30...	810	1028	25	--	--	1.1	--	--	--	1.2	--
30...	810	810	25	2	0	--	--	162	72	--	144
30...	810	810	50	0	0	--	--	168	80	--	166
30...	810	1028	100	--	--	2.2	--	--	--	1.2	--
30...	810	810	100	2	1	--	--	172	84	--	166

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
JUL										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	5.4	2.1	.01	.00	.13	.13	.14	.62	.01	.01
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	6.1	2.4	.15	.00	.01	.01	.16	.71	.01	.01
30...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
JUL										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	50	1	0	220	10	<100	10	.0	<50	220
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	70	1	0	160	40	<100	10	.0	<50	160
30...	--	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT								
15...	1028	--	--	--	--	--	156	--
15...	1028	1028	.0	297	8.4	20.0	--	7.8
15...	1028	1028	10	297	8.4	20.0	--	--
15...	1028	1028	20	297	8.3	20.0	--	--
15...	1028	1028	30	297	8.2	20.0	--	--
15...	1028	1028	40	297	8.2	20.0	--	--
15...	1028	1028	45	302	7.6	19.0	--	6.8
15...	1028	1028	50	310	7.5	18.5	--	5.8
15...	1028	1028	55	304	7.5	17.0	--	--
15...	1028	1028	60	312	7.5	16.0	--	--
15...	1028	1028	65	305	7.5	15.0	--	--
15...	1028	1028	70	305	7.4	15.0	--	.2
15...	1028	1028	75	297	7.4	12.5	--	--
15...	1028	1028	80	295	7.4	12.0	--	--
15...	1028	1028	90	295	7.5	11.0	--	--
15...	1028	1028	100	292	7.5	10.5	--	--
15...	1028	1028	110	297	7.4	10.0	--	2.4
15...	1028	1028	120	297	7.4	10.0	--	--
15...	1028	1028	130	306	7.1	9.5	--	--
15...	1028	1028	140	312	7.0	9.0	--	--
15...	1028	1028	145	312	7.0	9.0	--	.2
NOV								
19...	1028	--	--	--	--	--	156	--
19...	1028	1028	.0	276	8.1	16.0	--	7.6
19...	1028	1028	10	276	8.3	16.0	--	7.2
19...	1028	1028	20	276	8.2	16.0	--	7.1
19...	1028	1028	30	276	8.2	16.0	--	7.1
19...	1028	1028	40	276	8.2	16.0	--	7.1
19...	1028	1028	50	276	8.2	16.0	--	7.0
19...	1028	1028	60	276	8.2	16.0	--	7.0
19...	1028	1028	70	276	8.1	16.0	--	7.0
19...	1028	1028	75	276	8.1	16.0	--	7.0
19...	1028	1028	80	281	7.7	15.5	--	2.4
19...	1028	1028	85	281	7.6	15.0	--	1.0
19...	1028	1028	90	294	7.5	14.5	--	.6
19...	1028	1028	95	288	7.5	13.0	--	.4
19...	1028	1028	100	288	7.5	12.0	--	.3
19...	1028	1028	110	288	7.5	11.5	--	.3
19...	1028	1028	120	288	7.4	11.0	--	.3
19...	1028	1028	130	299	7.4	10.5	--	.3
19...	1028	1028	140	304	7.5	10.0	--	.3
19...	1028	1028	150	297	7.5	10.0	--	.3
19...	1028	1028	160	299	7.5	9.5	--	.3
19...	1028	1028	170	299	7.5	9.5	--	.3
DEC								
09...	810	--	--	--	--	--	132	--
09...	810	1028	.0	--	--	--	--	--
09...	810	810	10	280	6.6	11.0	--	7.8
09...	810	1028	25	311	--	--	--	--
09...	810	810	25	280	6.7	11.0	--	7.8
09...	810	810	50	280	6.5	11.0	--	7.7
09...	810	810	75	280	7.2	11.0	--	7.6
09...	810	1028	100	316	--	--	--	--
09...	810	810	100	280	6.9	10.0	--	6.1
09...	810	810	125	275	6.7	9.0	--	6.4
09...	810	810	150	300	6.6	10.0	--	5.7
17...	1028	--	--	--	--	--	96	--
17...	1028	1028	.0	286	7.8	10.5	--	8.4
17...	1028	1028	10	286	--	10.5	--	8.3
17...	1028	1028	20	286	--	10.5	--	8.2
17...	1028	1028	30	286	7.7	10.5	--	8.2
17...	1028	1028	40	286	--	10.5	--	8.2
17...	1028	1028	50	286	--	10.5	--	8.2
17...	1028	1028	60	286	7.6	10.5	--	8.2
17...	1028	1028	70	286	--	10.5	--	8.2
17...	1028	1028	80	286	--	10.5	--	8.2
17...	1028	1028	90	286	7.7	10.5	--	8.2
17...	1028	1028	100	286	--	10.5	--	8.1
17...	1028	1028	110	286	--	10.5	--	8.1
17...	1028	1028	120	286	7.6	10.5	--	8.1
17...	1028	1028	130	286	--	10.5	--	8.1
17...	1028	1028	140	286	7.5	10.5	--	8.1
JAN								
21...	1028	--	--	--	--	--	84	--
21...	1028	1028	.0	261	8.1	8.0	--	10.4
21...	1028	1028	10	268	8.1	8.0	--	10.4
21...	1028	1028	20	268	8.1	8.0	--	10.4
21...	1028	1028	30	268	8.1	8.0	--	10.2
21...	1028	1028	40	268	8.1	8.0	--	10.2
21...	1028	1028	50	268	8.1	8.0	--	10.2

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
JAN								
21...	1028	1028	60	268	8.1	8.0	--	10.2
21...	1028	1028	70	268	8.1	8.0	--	10.2
21...	1028	1028	80	268	8.2	8.0	--	10.2
21...	1028	1028	90	268	8.2	8.0	--	10.2
21...	1028	1028	100	268	8.2	8.0	--	10.0
21...	1028	1028	110	268	8.1	8.0	--	10.0
21...	1028	1028	120	268	8.1	8.0	--	10.0
21...	1028	1028	130	268	8.0	8.0	--	10.0
21...	1028	1028	140	268	7.9	8.0	--	10.0
21...	1028	1028	150	268	7.8	8.0	--	10.0
21...	1028	1028	155	268	7.8	8.0	--	10.0
FEB								
25...	1028	--	--	--	--	--	90	--
25...	1028	1028	.0	296	8.4	7.5	--	11.0
25...	1028	1028	10	296	8.4	7.5	--	10.2
25...	1028	1028	20	296	8.3	7.5	--	10.8
25...	1028	1028	30	296	8.3	7.5	--	11.0
25...	1028	1028	40	298	8.3	7.0	--	11.4
25...	1028	1028	50	291	8.3	7.0	--	11.6
25...	1028	1028	60	291	8.3	7.0	--	10.6
25...	1028	1028	80	291	8.3	7.0	--	10.6
25...	1028	1028	100	291	8.3	7.0	--	10.4
25...	1028	1028	120	291	8.3	7.0	--	10.4
25...	1028	1028	140	291	8.3	7.0	--	10.2
25...	1028	1028	150	291	8.3	7.0	--	10.0
MAR								
25...	1028	--	--	--	--	--	114	--
25...	1028	1028	.0	324	8.3	10.0	--	10.8
25...	1028	1028	10	--	8.3	10.0	--	10.2
25...	1028	1028	20	--	8.3	10.0	--	10.2
25...	1028	1028	30	317	8.2	10.0	--	10.2
25...	1028	1028	40	--	8.2	9.5	--	9.9
25...	1028	1028	50	--	8.2	9.5	--	9.8
25...	1028	1028	60	--	8.2	9.0	--	9.7
25...	1028	1028	70	320	8.2	9.0	--	9.8
25...	1028	1028	80	--	8.1	8.5	--	9.8
25...	1028	1028	90	--	8.1	8.5	--	9.7
25...	1028	1028	100	319	8.1	8.0	--	9.6
25...	1028	1028	110	--	8.1	7.5	--	9.6
25...	1028	1028	120	--	8.0	7.0	--	9.5
25...	1028	1028	130	--	8.0	7.7	--	9.5
25...	1028	1028	140	320	8.0	7.0	--	9.3
26...	810	1028	.0	--	--	--	--	--
26...	810	--	--	--	--	--	132	--
26...	810	1028	25	315	--	--	--	--
26...	810	810	25	320	7.1	10.0	--	11.4
26...	810	1028	100	313	--	--	--	--
26...	810	810	100	260	7.2	8.5	--	10.0
APR								
21...	1028	1028	.0	312	8.4	14.0	--	10.2
21...	1028	1028	10	314	8.4	14.0	--	10.4
21...	1028	1028	20	312	8.4	14.0	--	10.4
21...	1028	1028	30	317	8.3	13.0	--	10.3
21...	1028	1028	35	316	8.3	12.5	--	10.1
21...	1028	1028	40	328	8.2	11.5	--	10.0
21...	1028	1028	50	320	8.2	10.5	--	10.4
21...	1028	1028	60	317	8.2	10.0	--	10.0
21...	1028	1028	70	320	8.1	9.0	--	10.0
21...	1028	1028	80	319	8.1	8.0	--	9.6
21...	1028	1028	90	312	8.0	8.0	--	10.0
21...	1028	1028	100	312	8.0	8.0	--	9.8
21...	1028	1028	110	318	8.0	7.5	--	9.8
21...	1028	1028	120	320	8.0	7.0	--	9.6
21...	1028	1028	130	323	8.0	6.0	--	9.0
21...	1028	1028	140	323	8.0	6.0	--	8.9
21...	1028	1028	150	323	7.9	6.0	--	8.5
MAY								
27...	1028	--	--	--	--	--	168	--
27...	1028	1028	.0	302	8.6	20.0	--	10.0
27...	1028	1028	10	308	8.6	20.0	--	10.0
27...	1028	1028	20	308	8.7	20.0	--	10.6
27...	1028	1028	25	310	8.7	18.5	--	10.6
27...	1028	1028	30	316	8.7	17.0	--	10.4
27...	1028	1028	40	312	8.5	16.0	--	10.0
27...	1028	1028	45	312	8.2	14.0	--	9.6
27...	1028	1028	50	320	8.2	13.0	--	8.4
27...	1028	1028	55	308	8.0	12.0	--	7.6
27...	1028	1028	60	315	8.0	11.0	--	--
27...	1028	1028	70	317	7.9	10.0	--	7.6
27...	1028	1028	80	313	7.9	9.5	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)
MAY								
27...	1028	1028	90	312	7.9	9.0	--	7.8
27...	1028	1028	100	315	7.9	8.5	--	--
27...	1028	1028	110	307	7.9	8.5	--	7.2
27...	1028	1028	120	312	7.9	8.0	--	--
27...	1028	1028	130	312	7.9	8.0	--	--
27...	1028	1028	140	304	7.8	8.0	--	8.8
27...	1028	1028	150	311	7.8	7.5	--	--
27...	1028	1028	155	311	7.8	7.5	--	9.6
JUN								
24...	1028	--	--	--	--	--	132	--
24...	1028	1028	.0	295	8.6	23.5	--	11.2
24...	1028	1028	10	295	8.6	23.0	--	11.4
24...	1028	1028	15	295	8.6	23.0	--	12.4
24...	1028	1028	20	295	8.6	22.0	--	14.2
24...	1028	1028	25	300	8.6	20.0	--	13.4
24...	1028	1028	30	305	8.5	19.0	--	12.2
24...	1028	1028	35	310	8.5	18.0	--	11.2
24...	1028	1028	40	310	8.4	17.5	--	10.4
24...	1028	1028	50	315	8.3	16.0	--	8.8
24...	1028	1028	60	315	8.0	14.5	--	6.9
24...	1028	1028	65	315	8.0	12.5	--	6.4
24...	1028	1028	70	315	7.9	12.5	--	6.3
24...	1028	1028	80	315	7.9	11.0	--	6.2
24...	1028	1028	90	315	7.9	10.5	--	6.4
24...	1028	1028	100	320	7.9	10.0	--	6.3
24...	1028	1028	110	320	7.9	9.5	--	6.3
24...	1028	1028	120	320	7.9	9.5	--	6.3
24...	1028	1028	130	320	7.9	9.0	--	6.5
24...	1028	1028	140	320	7.9	9.0	--	6.2
24...	1028	1028	150	315	7.9	8.5	--	5.8
24...	1028	1028	153	315	7.8	8.5	--	5.4
JUL								
22...	1028	1028	.0	310	8.6	28.5	--	7.6
22...	1028	1028	10	310	8.6	28.0	--	7.7
22...	1028	1028	20	310	8.6	28.0	--	7.8
22...	1028	1028	25	310	8.6	25.0	--	11.0
22...	1028	1028	30	320	8.7	23.5	--	5.7
22...	1028	1028	35	315	8.8	21.5	--	5.9
22...	1028	1028	40	320	8.7	20.5	--	5.5
22...	1028	1028	45	325	8.6	19.0	--	4.5
22...	1028	1028	50	325	8.4	17.5	--	3.8
22...	1028	1028	55	330	8.3	16.5	--	3.0
22...	1028	1028	60	335	8.2	15.5	--	2.5
22...	1028	1028	65	335	8.1	14.5	--	2.2
22...	1028	1028	70	335	8.0	13.5	--	2.0
22...	1028	1028	80	335	8.0	12.0	--	1.9
22...	1028	1028	90	330	7.9	11.0	--	1.8
22...	1028	1028	100	335	7.9	10.5	--	1.8
22...	1028	1028	110	340	7.9	10.0	--	1.6
22...	1028	1028	120	340	7.9	9.5	--	1.5
22...	1028	1028	130	340	7.9	9.5	--	1.4
22...	1028	1028	140	340	7.9	9.0	--	1.4
22...	1028	1028	150	340	7.9	8.5	--	1.2
22...	1028	1028	155	340	7.8	8.5	--	1.1
30...	810	--	--	--	--	--	276	--
30...	810	1028	.0	--	--	--	--	--
30...	810	810	10	280	8.1	29.0	--	8.2
30...	810	1028	25	295	--	--	--	--
30...	810	810	25	260	8.4	28.5	--	9.9
30...	810	810	50	305	7.5	23.5	--	7.2
30...	810	1028	100	313	--	--	--	--
30...	810	810	100	325	8.1	18.0	--	5.0
AUG								
25...	1028	--	--	--	--	--	264	--
25...	1028	1028	.0	295	8.6	27.5	--	8.0
25...	1028	1028	10	295	8.6	27.5	--	7.9
25...	1028	1028	20	295	8.6	27.5	--	7.9
25...	1028	1028	30	300	8.5	27.0	--	8.2
25...	1028	1028	35	320	8.4	24.5	--	10.6
25...	1028	1028	40	315	8.5	23.0	--	10.8
25...	1028	1028	45	315	8.5	21.5	--	9.2
25...	1028	1028	50	315	8.3	19.5	--	7.6
25...	1028	1028	55	320	8.1	18.0	--	4.7
25...	1028	1028	60	325	8.0	17.0	--	3.7
25...	1028	1028	65	330	7.9	16.5	--	3.0
25...	1028	1028	70	330	7.9	15.5	--	2.4
25...	1028	1028	80	330	7.9	14.0	--	2.0
25...	1028	1028	90	325	7.8	13.0	--	1.9
25...	1028	1028	100	325	7.8	11.5	--	1.9
25...	1028	1028	110	335	7.8	11.0	--	.5

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)
AUG								
25...	1028	1028	120	340	7.7	10.5	--	.2
25...	1028	1028	130	340	7.7	10.0	--	.1
25...	1028	1028	140	335	7.7	10.0	--	.1
25...	1028	1028	150	335	7.7	9.5	--	.1
SEP								
23...	1028	--	--	--	--	--	186	--
23...	1028	1028	.0	300	7.7	24.0	--	8.4
23...	1028	1028	10	300	7.7	24.5	--	8.1
23...	1028	1028	20	310	7.7	24.5	--	8.1
23...	1028	1028	30	310	7.8	24.5	--	8.1
23...	1028	1028	40	310	7.8	24.5	--	8.0
23...	1028	1028	45	330	7.8	23.0	--	5.0
23...	1028	1028	50	330	7.8	21.5	--	5.5
23...	1028	1028	55	330	7.8	20.0	--	3.5
23...	1028	1028	60	330	7.8	18.5	--	2.1
23...	1028	1028	65	330	7.8	17.5	--	1.4
23...	1028	1028	70	330	7.8	16.5	--	.9
23...	1028	1028	80	330	7.8	15.0	--	.7
23...	1028	1028	90	340	7.8	14.0	--	.3
23...	1028	1028	100	340	7.8	12.5	--	.2
23...	1028	1028	110	340	7.8	12.0	--	.1
23...	1028	1028	120	340	7.8	11.0	--	.1
23...	1028	1028	130	340	7.8	10.5	--	.0
23...	1028	1028	140	350	7.8	10.5	--	.0
23...	1028	1028	145	350	7.8	10.0	--	.0

07060000 NORTH FORK RIVER AT NORFORK DAM, NEAR NORFORK, AR

LOCATION.--Lat 36°14'57", long 92°14'18", in SE¼SW¼ sec.2, T.18 N., R.12 W., Baxter County, at Norfork Dam, 3.9 mi (6.3 km) northeast of Norfork, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--1,808 mi^2 (4,693 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD Ark. 1967: 1966. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder in float well in powerplant. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Discharge computations based on power releases, conduit releases, spillway releases, fish hatchery releases and estimated leakage. Fish hatchery releases of about 35 ft^3/s (0.99 m^3/s) began about Oct. 1, 1957. Flow completely regulated by Norfork Lake.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--32 years, 1,854 ft^3/s (52.5 m^3/s), 1,343,000 acre-ft/yr (1,660 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 21,000 ft^3/s (595 m^3/s) Apr. 16, 1945; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,260 ft^3/s (149 m^3/s) Dec. 19; minimum daily, 95 ft^3/s (2.69 m^3/s) at times.

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	97	96	4020	102	1030	1830	1400	95	2040	649	1490	1130
2	485	130	3200	687	3230	1310	1250	96	1640	243	432	1700
3	2100	2850	1750	104	2980	1680	411	285	1340	232	371	1560
4	236	1310	2080	105	3680	908	274	149	937	222	432	767
5	244	869	208	2150	3350	544	2770	1200	232	271	293	1060
6	2560	1380	100	2000	3200	99	3200	96	222	1600	1070	957
7	2830	314	102	3390	184	100	3400	95	1320	642	1910	2640
8	2200	96	897	3580	222	2160	3320	95	817	2080	1040	2280
9	1760	581	1060	3480	2030	1460	3120	95	1570	2360	1970	1220
10	2750	2490	549	105	1070	546	1760	426	1780	2460	2320	243
11	584	2620	1870	103	2110	544	1140	314	1870	2860	2100	381
12	528	3060	2210	1400	2960	326	3850	95	1070	2100	2450	360
13	2680	3000	98	1670	2040	329	1860	314	1720	2090	2440	2640
14	2100	2900	97	2120	98	98	3100	95	2300	2200	2150	2470
15	2770	158	2260	1900	96	546	2400	95	2200	983	233	3100
16	1890	98	550	3140	1210	566	1680	264	2320	859	2720	2760
17	2720	2860	3520	768	1900	884	1590	208	2460	291	2970	2870
18	95	3160	3880	599	1450	546	96	1330	1480	311	2730	311
19	96	3010	5260	2960	1640	207	562	1670	242	1310	2990	441
20	2220	3400	2590	2000	784	95	1330	1220	233	1660	2530	2340
21	1660	3490	3550	440	326	98	1240	2570	2110	2200	3010	1350
22	2910	2560	5140	1180	101	546	1090	350	2380	2200	2570	300
23	3530	1320	4160	815	3100	456	304	380	2320	1910	2790	839
24	95	3620	1910	101	2160	335	95	2140	1970	1520	2600	1360
25	96	3680	420	320	1410	435	95	927	2220	480	2720	282
26	97	4190	1970	2000	1120	1100	1690	798	1700	2320	2580	292
27	3320	3450	192	2330	1010	2130	1810	543	1510	2250	2810	698
28	2460	3550	102	2670	908	829	1180	1230	2460	2810	3340	293
29	1220	582	439	714	247	1410	95	501	2200	2220	273	708
30	2420	1770	331	2130	---	1910	166	232	2200	2520	2180	1240
31	2920	---	103	1220	---	1980	---	241	---	2270	879	---
TOTAL	51673	62594	54618	46283	45646	26207	46278	18149	48863	48123	60395	38592
MEAN	1667	2086	1762	1493	1574	845	1543	585	1629	1552	1948	1286
MAX	3530	4190	5260	3580	3680	2160	3850	2570	2460	2860	3340	3100
MIN	95	96	97	101	96	95	95	95	222	222	233	243
AC-FT	102500	124200	108300	91800	90540	51980	91790	36000	96920	95450	119800	76550

CAL YR 1975 TOTAL 894893 MEAN 2452 MAX 5400 MIN 95 AC-FT 1775000
WTR YR 1976 TOTAL 547419 MEAN 1496 MAX 5260 MIN 95 AC-FT 1086000

07060000 NORTH FORK RIVER AT NORFORK DAM, NEAR NORFORK, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946-71, December 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to September 1971.

REMARKS.--Flow completely regulated by Norfork Reservoir.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
15...	1028	1028	2770	308	7.1	11.0	--	--	7.2	--	--	--
NOV												
19...	1028	1028	3010	295	--	11.0	--	--	9.2	--	--	--
DEC												
09...	810	1028	1060	333	--	--	--	--	--	1.8	2	--
09...	810	810	--	320	7.0	11.0	10	15	9.5	--	--	182
17...	1028	1028	768	256	7.6	9.0	--	--	10.2	--	--	--
JAN												
21...	1028	1028	440	255	8.5	10.0	--	--	13.2	--	--	--
FEB												
25...	1028	1028	1410	303	8.4	7.5	--	--	10.6	--	--	--
MAR												
25...	1028	1028	435	319	8.3	8.0	--	--	--	--	--	--
25...	810	1028	--	335	--	--	--	--	--	2.6	0	--
25...	810	810	--	300	7.0	9.5	5	2	15.7	--	--	180
APR												
21...	1028	1028	1240	350	8.1	5.0	--	--	12.0	--	--	--
MAY												
27...	1028	1028	543	307	7.9	8.5	--	--	8.3	--	--	--
JUN												
24...	1028	1028	1970	320	8.1	11.0	--	--	10.4	--	--	--
JUL												
22...	1028	1028	2200	335	8.2	11.5	--	--	4.5	--	--	--
29...	810	1028	2220	330	--	--	--	--	--	3.2	B270	--
29...	810	810	--	260	7.5	10.0	3	0	8.8	--	--	178
AUG												
25...	1028	1028	2720	330	7.8	11.5	--	--	4.4	--	--	--
SEP												
23...	1028	1028	839	340	7.8	12.0	--	--	2.6	--	--	--

DATE	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)
OCT												
15...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
19...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
09...	--	1.2	--	4.7	2.3	.15	.23	.54	.77	.92	4.1	.04
09...	80	--	180	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	1.5	--	7.7	2.2	.24	.07	.32	.39	.63	2.8	.04
25...	104	--	163	--	--	--	--	--	--	--	--	--
APR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
22...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	1.3	--	5.4	2.2	.44	.09	.47	.56	1.0	4.4	.14
29...	90	--	170	--	--	--	--	--	--	--	--	--
AUG												
25...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
23...	--	--	--	--	--	--	--	--	--	--	--	--

07060000 NORTH FORK RIVER AT NORFORK DAM NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT											
15...	--	--	--	--	--	--	--	--	--	--	--
NOV											
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
09...	.01	80	1	10	70	180	<100	460	.0	<50	90
09...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
25...	--	--	--	--	--	--	--	--	--	--	--
MAR											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	.01	40	0	0	80	70	<100	30	.0	50	90
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
27...	--	--	--	--	--	--	--	--	--	--	--
JUN											
24...	--	--	--	--	--	--	--	--	--	--	--
JUL											
22...	--	--	--	--	--	--	--	--	--	--	--
29...	.05	120	1	0	220	110	<100	60	.0	<50	200
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	--	--	--	--	--	--	--	--	--	--	--
SEP											
23...	--	--	--	--	--	--	--	--	--	--	--

07060010 NORTH FORK RIVER AT NORFORK, AR

LOCATION.--Lat 36°12'48", long 92°16'54", in sec.20, T.18 N., R.12 W., Baxter County, at Rose Dock downstream from bridge on State Highway 5, 0.2 mi (0.3 km) upstream from mouth.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
20...	9827	9827	2740	299	8.3	23.0	13.0	5	2	11.0
NOV										
18...	9827	9827	2630	277	7.9	15.0	12.0	5	2	6.5
DEC										
16...	9827	9827	20	283	8.2	4.0	9.0	5	2	10.7
JAN										
23...	9827	9827	--	--	--	--	--	--	--	--
26...	9827	9827	2740	320	8.3	6.0	7.0	5	3	12.4
FEB										
23...	9827	9827	5560	296	8.3	13.0	8.0	5	2	12.0
MAR										
15...	9827	9827	2840	318	8.3	18.0	11.0	5	2	12.0
APR										
20...	9827	9827	2770	333	8.2	21.0	13.0	10	2	11.5
MAY										
18...	9827	9827	20	333	8.3	24.0	13.0	10	2	11.7
JUN										
15...	9827	9827	5420	352	8.2	25.0	14.0	5	<25	11.3
JUL										
20...	9827	9827	20	357	7.9	33.0	13.0	10	2	6.9
AUG										
17...	9827	9827	5470	355	7.9	27.0	16.0	5	2	5.9
SEP										
21...	9827	9827	2820	381	8.0	20.0	15.0	10	2	6.7

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
20...	104	1.5	34	16	8	160	0	35	88	18
NOV										
18...	60	1.4	40	<4	<4	--	--	--	--	--
DEC										
16...	92	.7	20	15	32	--	--	--	--	--
JAN										
23...	--	--	--	--	--	--	--	--	--	--
26...	102	1.0	7	<5	<4	150	0	30	76	19
FEB										
23...	101	1.3	7	5	4	--	--	--	--	--
MAR										
15...	108	1.8	<7	<4	4	--	--	--	--	--
APR										
20...	108	2.2	100	85	270	180	16	37	92	20
MAY										
18...	110	6.3	50	20	--	--	--	--	--	--
JUN										
15...	109	2.1	210	5	--	--	--	--	--	--
JUL										
20...	65	1.6	150	20	50	180	0	36	90	21
AUG										
17...	59	--	50	15	--	--	--	--	--	--
SEP										
21...	66	.8	73	4	80	--	--	--	--	--

07060010 NORTH FORK RIVER AT NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
20...	1.7	1.0	210	0	172	1.7	3.0	3.0	198	0
NOV										
18...	--	--	--	--	--	--	3.0	3.0	164	4
DEC										
16...	--	--	--	--	--	--	2.0	3.0	187	2
JAN										
23...	--	--	--	--	--	--	--	--	--	--
26...	1.4	1.0	200	0	164	1.6	<1.0	4.0	157	14
FEB										
23...	--	--	--	--	--	--	2.0	5.5	181	1
MAR										
15...	--	--	--	--	--	--	<1.0	4.0	173	3
APR										
20...	1.4	1.0	200	0	164	2.0	3.0	3.0	178	2
MAY										
18...	--	--	--	--	--	--	3.0	5.0	183	15
JUN										
15...	--	--	--	--	--	--	3.0	4.0	201	12
JUL										
20...	1.7	1.3	220	0	180	4.4	1.0	4.0	201	5
AUG										
17...	--	--	--	--	--	--	2.0	4.0	190	9
SEP										
21...	--	--	--	--	--	--	5.0	4.0	198	0

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
20...	198	.34	<.01	<3	<10	0	<10	0	<10	37
NOV										
18...	168	.21	<.01	--	--	--	--	--	--	--
DEC										
16...	189	.24	<.01	--	--	--	--	--	--	--
JAN										
23...	--	--	--	--	--	--	--	--	--	--
26...	171	.20	<.01	<3	<10	<3	<10	43	<10	49
FEB										
23...	182	.25	<.01	--	--	--	--	--	--	--
MAR										
15...	176	.23	<.01	--	--	--	--	--	--	--
APR										
20...	180	.20	<.01	<3	<10	<3	20	57	<10	30
MAY										
18...	198	.15	<.01	--	--	--	--	--	--	--
JUN										
15...	189	.24	.05	--	--	--	--	--	--	--
JUL										
20...	206	.22	<.01	<3	<10	<3	<10	35	<10	<27
AUG										
17...	199	.36	<.01	--	--	--	--	--	--	--
SEP										
21...	198	.19	<.01	--	--	--	--	--	--	--

07060010 NORTH FORK RIVER AT NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
20...	<10	--	--	--	--	--	--	--	--
NOV									
18...	--	--	--	--	--	--	--	--	--
DEC									
16...	--	--	--	--	--	--	--	--	--
JAN									
23...	--	.00	.00	.00	.00	.00	.00	.00	<1
26...	<10	--	--	--	--	--	--	--	--
FEB									
23...	--	--	--	--	--	--	--	--	--
MAR									
15...	--	--	--	--	--	--	--	--	--
APR									
20...	<10	--	--	--	--	--	--	--	--
MAY									
18...	--	--	--	--	--	--	--	--	--
JUN									
15...	--	--	--	--	--	--	--	--	--
JUL									
20...	<10	--	--	--	--	--	--	--	--
AUG									
17...	--	--	--	--	--	--	--	--	--
SEP									
21...	--	--	--	--	--	--	--	--	--

07060500 WHITE RIVER AT CALICO ROCK, AR

LOCATION.--Lat 36°06'58", long 92°08'35", in SE¼NE¼ sec.22, T.17 N., R.11 W., Izard County, on left bank at Calico Rock, 200 ft (61 m) upstream from bridge on State Highway 5, 700 ft (213 m) upstream from Calico Creek, 3.2 mi (5.1 km) downstream from Cataract Creek, 6.0 mi (9.7 km) upstream from Piney Creek, and at mile 359.1 (577.8 km).

DRAINAGE AREA.--9,978 mi^2 (25,840 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 316.38 ft (96.433 m) above mean sea level. Prior to Jan. 26, 1940, nonrecording gage at same site and Jan. 27 to Aug. 13, 1940, nonrecording gage at site 500 ft (152 m) downstream, both at datum 2.07 ft (0.631 m) higher. Aug. 14, 1940, to Dec. 5, 1966, water-stage recorder at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Flow regulated by Norfork Lake since 1943 (see station 07058500), by Bull Shoals Lake, 59.5 mi (95.7 km) upstream, since July 24, 1951 (see station 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), and by Beaver Lake since Dec. 26, 1963 (see station 07049690).

AVERAGE DISCHARGE.--37 years, 10,100 ft^3/s (286 m^3/s), 7,317,000 acre-ft/yr (9,020 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 310,000 ft^3/s (8,780 m^3/s) Apr. 16, 1945, gage height, 49.84 ft (15.191 m) present datum; minimum observed, 305 ft^3/s (8.64 m^3/s) Sept. 27, 1954; minimum daily, 310 ft^3/s (8.78 m^3/s) Sept 27, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1904, 52.9 ft (16.12 m) Jan. 31, 1916, present datum, from records of National Weather Service, discharge, 350,000 ft^3/s (9,910 m^3/s).

EXTREMES FOR CURRENT YEAR:--Maximum discharge, 30,500 ft^3/s (864 m^3/s) June 25, gage height, 11.88 ft (3.621 m); minimum, 848 ft^3/s (24.0 m^3/s) Oct. 27; minimum daily 958 ft^3/s (27.1 m^3/s) Oct. 26.

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	2600	5930	4740	7630	2320	2010	4030	13300	9980	11200	19300	3640
2	2320	1960	7790	4990	3420	4000	3600	12700	11300	9650	18200	3450
3	3690	2620	4690	5450	9240	3820	3180	12500	9380	11400	16600	3610
4	4620	6700	5700	7810	8790	2930	2080	12300	8430	9600	16400	6810
5	2460	3780	3770	7220	9300	4150	3350	12900	8290	12400	18800	8570
6	2830	8160	5100	8780	8300	3100	9420	9540	4900	11900	19700	3940
7	5970	5700	6490	9970	4680	2310	8960	10400	3240	10100	18400	5400
8	3950	3030	5710	18300	2370	3770	10700	10900	10800	9830	18600	9230
9	3420	1360	9490	13100	2400	11100	10200	6380	9100	11100	18000	9270
10	3740	2920	6090	8040	2350	12500	4510	2080	9720	12900	11800	3210
11	5890	7340	5350	3680	3670	12100	3240	12900	9410	11000	13900	1530
12	2540	6960	8090	2740	4250	13300	4320	8930	10300	11800	11000	1470
13	3570	10400	7190	7930	3920	11500	4890	13400	10600	9500	7960	2660
14	15000	13500	2170	9860	2300	5550	5850	12000	10900	9270	13500	7500
15	11500	8640	4310	8530	1290	3890	8650	6220	10200	10200	3460	9570
16	6980	1560	10200	12100	1450	10900	5590	2440	4960	16100	3350	10800
17	7520	2320	11700	7260	2780	11000	3240	2960	4510	16300	10300	7930
18	5740	4940	17900	5140	3530	8040	15600	8590	3780	17000	8820	8810
19	2110	4640	16900	5810	3680	5140	3180	5810	2750	17400	7950	11000
20	2570	5030	10800	5850	3020	2680	7010	5860	2100	17800	4600	4430
21	6920	12600	9650	3150	1760	2010	13000	9120	2810	17500	4670	3550
22	8380	9030	9180	4250	1590	1900	16300	13500	3910	18800	10100	2580
23	10700	3480	13200	4660	3370	3510	19800	4790	7710	18300	8740	4140
24	10200	3710	8510	4130	4820	3220	20700	2900	12700	18800	9190	7290
25	1760	10400	4850	3150	4890	2690	22000	6090	23200	18500	6300	8970
26	958	8310	3160	6080	3820	2670	24700	7900	20800	18400	6700	2500
27	2400	8210	3520	10700	3990	4530	21700	10500	13900	18200	12700	3570
28	10100	4570	2460	7150	3440	3170	16800	13700	9540	20200	14600	13800
29	5590	2920	3210	3140	2700	2210	16600	17500	9190	20900	6250	5030
30	6520	2060	11800	2890	---	3830	12400	8300	11600	19900	3470	9320
31	7360	---	11300	2690	---	4830	---	6390	---	19800	3230	---
TOTAL	169908	172780	235020	212180	113440	168360	305600	282800	270010	455750	346590	183580
MEAN	5481	5759	7581	6845	3912	5431	10190	9123	9000	14700	11180	6119
MAX	15000	13500	17900	18300	9300	13300	24700	17500	23200	20900	19700	13800
MIN	958	1360	2170	2690	1290	1900	2080	2080	2100	9270	3230	1470
AC-FT	337000	342700	466200	420900	225000	333900	606200	560900	535600	904000	687500	364100

CAL YR 1975 TOTAL 4633021 MEAN 12690 MAX 46800 MIN 958 AC-FT 9190000
WTR YR 1976 TOTAL 2916018 MEAN 7967 MAX 24700 MIN 958 AC-FT 5784000

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1972 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1966 to current year.

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Temperature records furnished by Arkansas Game and Fish Commission, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.5°C July 6, 1971; minimum, 1.5°C Feb. 8, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.0°C June 21; minimum, 1.5°C Feb. 8

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)
OCT										
16...	1028	1028	6960	--	--	--	12.5	--	--	--
17...	1028	1028	6220	283	8.0	--	12.0	--	8.6	83
17-31	1028	1028	--	--	--	--	--	--	--	--
NOV										
01-20	1028	1028	--	--	--	--	--	--	--	--
20...	1028	1028	2220	314	7.8	--	11.0	--	10.2	95
25...	1028	1028	11700	--	--	--	9.0	--	--	--
DEC										
18...	1028	1028	12800	264	7.9	--	7.5	--	11.6	100
18...	1028	1028	--	--	--	--	--	--	--	--
JAN										
22...	1028	1028	3170	289	8.0	--	5.5	--	11.4	93
FEB										
18...	1028	1028	1940	--	--	9.0	7.5	--	--	--
25...	1028	1028	3010	290	8.1	--	9.0	20	10.3	92
MAR										
25...	1028	1028	1980	274	8.1	--	12.0	--	9.4	90
31...	1028	1028	3340	--	--	--	10.5	--	--	--
APR										
21...	1028	1028	13100	266	7.6	--	10.5	--	10.4	96
MAY										
06...	1028	1028	11500	--	--	20.0	11.5	--	--	--
27...	1028	1028	11400	251	8.3	--	13.0	--	8.3	81
JUN										
24...	1028	1028	23700	155	7.9	--	18.0	--	7.8	85
24...	1028	1028	7440	--	--	25.0	17.5	--	--	--
JUL										
21...	1028	1028	19300	261	7.9	--	15.0	--	8.0	82
AUG										
04...	1028	1028	20500	--	--	23.0	15.0	--	--	--
25...	1028	1028	3170	320	7.6	--	14.5	--	8.2	83
SEP										
16...	1028	1028	14600	--	--	27.0	14.0	--	--	--
23...	1028	1028	4000	288	8.0	--	17.0	--	9.4	100

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) (00335)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT										
16...	--	--	--	--	--	--	--	--	--	--
17...	--	1.6	B18	B110	.31	.46	.77	3.4	.01	12
17-31	--	--	--	--	--	--	--	--	--	--
NOV										
01-20	--	--	--	--	--	--	--	--	--	--
20...	7	1.4	73	80	.13	.46	.59	2.6	.00	--
25...	--	--	--	--	--	--	--	--	--	--
DEC										
18...	7	.8	89	74	.26	.30	.56	2.5	.01	--
18...	--	.8	89	74	--	--	--	--	--	--
JAN										
22...	0	.8	<2	<2	.04	.20	.24	1.1	.00	1.8
FEB										
18...	--	--	--	--	--	--	--	--	--	--
25...	--	.8	B7	B15	.14	.31	.45	2.0	.76	--
MAR										
25...	14	.9	7	B8	.13	.22	.35	1.6	.02	--
31...	--	--	--	--	--	--	--	--	--	--
APR										
21...	--	1.2	350	280	.26	.30	.56	2.5	.02	3.1
MAY										
06...	--	--	--	--	--	--	--	--	--	--
27...	--	.8	160	194	.27	.23	.50	2.2	.01	--
JUN										
24...	--	--	--	--	.18	1.1	1.3	5.7	.24	--
24...	--	--	--	--	--	--	--	--	--	--
JUL										
21...	--	1.0	B10	54	.32	.11	.43	1.9	.00	--
AUG										
04...	--	--	--	--	--	--	--	--	--	--
25...	--	1.2	B22	68	.27	.37	.64	2.8	.01	--
SEP										
16...	--	--	--	--	--	--	--	--	--	--
23...	--	1.2	B23	82	.19	.28	.47	2.1	.02	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	13.0	14.5	13.0	11.0	12.0	9.5	8.5	9.0	6.5	5.5	6.0
2	17.0	14.5	16.0	13.5	11.5	12.5	8.5	8.0	8.0	6.5	5.5	6.0
3	15.0	13.0	14.0	14.0	13.0	13.5	9.0	8.0	8.5	5.5	4.0	4.5
4	14.0	14.0	14.0	14.0	13.5	14.0	8.0	7.0	7.0	5.0	3.5	4.0
5	15.5	11.5	14.0	14.0	13.0	13.5	---	---	---	5.0	3.0	4.0
6	17.0	13.0	15.0	13.0	12.5	12.5	---	---	---	---	---	---
7	14.5	11.5	13.0	13.5	13.0	13.0	---	---	---	---	---	---
8	15.5	11.5	14.0	15.0	12.5	14.0	---	---	---	---	---	---
9	16.5	11.5	14.0	17.0	14.5	16.0	---	---	---	---	---	---
10	17.0	13.0	15.0	15.5	13.0	14.0	---	---	---	---	---	---
11	16.0	12.5	14.0	13.0	11.5	12.5	---	---	---	---	---	---
12	16.5	13.5	15.0	12.5	10.5	11.5	---	---	---	---	---	---
13	18.0	14.0	16.0	11.5	9.5	10.5	---	---	---	---	---	---
14	14.0	10.5	12.5	11.5	10.0	11.0	12.5	10.5	11.5	---	---	---
15	13.0	11.5	12.5	11.0	10.0	10.5	12.5	9.0	10.5	5.5	4.5	5.0
16	13.0	11.5	12.5	12.5	9.0	10.5	9.0	7.0	8.0	5.5	5.0	5.5
17	13.0	11.0	12.0	13.0	10.0	11.5	8.5	7.0	8.0	5.0	4.0	4.5
18	12.5	11.0	11.5	13.0	11.0	12.0	8.0	6.5	7.0	4.5	3.5	4.0
19	13.0	10.0	11.5	13.0	11.0	12.0	8.5	6.5	7.5	5.5	4.5	5.0
20	14.5	10.5	12.5	13.0	10.0	11.5	8.0	7.0	7.5	5.5	4.5	5.0
21	---	---	---	10.5	8.5	9.5	8.5	6.5	7.5	5.5	4.0	4.5
22	---	---	---	10.5	9.5	10.0	8.0	6.5	7.0	6.5	4.5	5.5
23	13.0	11.5	12.5	10.5	9.5	10.0	8.5	7.0	8.0	7.0	5.0	6.0
24	14.0	11.5	13.0	12.5	7.0	10.0	8.0	7.0	7.5	7.0	5.5	6.5
25	13.5	11.5	12.5	10.0	8.0	9.0	6.5	5.0	6.0	6.5	6.0	6.5
26	14.0	10.5	12.5	10.0	7.0	8.5	6.5	4.5	5.5	6.0	4.5	5.5
27	14.0	10.5	12.5	10.0	8.5	9.0	6.0	4.5	5.5	5.0	4.0	4.5
28	---	---	---	10.0	8.0	9.0	5.5	4.5	5.0	5.5	4.0	4.5
29	13.5	12.5	13.0	10.0	9.5	10.0	6.5	5.5	6.0	5.5	3.5	4.5
30	13.0	11.0	12.0	10.0	9.5	10.0	7.0	6.5	7.0	6.5	4.5	5.5
31	11.5	10.5	11.0	---	---	---	7.0	6.0	6.5	6.0	4.5	5.5
MONTH	18.0	10.0	13.5	17.0	7.0	11.5	---	---	---	---	---	---

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	4.0	5.0	13.5	11.0	12.5	13.5	8.0	10.5	11.0	9.5	10.5
2	5.0	3.5	4.0	14.0	8.5	11.0	14.0	8.5	11.0	11.5	9.5	10.5
3	5.5	4.0	4.5	15.0	9.5	12.5	15.5	10.0	13.0	11.5	9.5	10.5
4	5.0	4.5	4.5	15.0	9.5	12.5	17.0	13.5	15.5	11.5	9.5	10.5
5	5.0	4.5	4.5	12.5	8.0	10.0	16.5	10.5	14.0	11.0	10.0	10.5
6	4.5	4.0	4.0	10.0	7.0	8.5	12.5	9.0	10.5	11.5	10.0	11.0
7	4.0	2.0	3.0	10.0	6.5	8.5	12.5	9.0	10.5	13.0	10.0	11.5
8	5.0	1.5	3.5	10.0	7.0	8.5	10.0	9.0	9.5	11.5	10.0	11.0
9	6.0	3.5	4.5	8.0	6.5	7.0	10.0	8.5	9.0	13.5	10.5	12.0
10	8.5	5.5	7.0	9.0	6.5	8.0	13.0	7.0	10.0	13.5	11.5	12.5
11	9.5	6.5	8.0	9.5	8.5	9.0	14.5	10.0	12.5	13.5	9.0	11.0
12	8.0	5.0	6.5	9.5	8.0	8.5	15.0	10.5	13.0	13.0	10.5	11.5
13	9.0	5.5	7.0	9.5	7.0	8.5	14.5	9.0	11.5	14.0	9.5	11.5
14	10.0	7.0	8.5	10.5	7.0	9.0	14.0	10.0	12.0	11.0	9.0	10.0
15	12.5	10.0	11.0	12.5	9.5	11.0	13.5	9.0	11.0	12.5	11.0	11.5
16	13.5	11.0	12.5	11.0	8.0	9.5	15.5	10.5	13.0	15.5	12.5	14.0
17	11.0	9.0	10.0	8.5	7.0	8.0	16.0	11.5	14.0	15.5	14.0	15.0
18	10.0	6.0	8.0	10.0	8.5	9.0	14.0	8.5	11.0	14.0	10.0	12.0
19	10.0	6.0	8.0	11.5	9.5	10.5	13.5	10.0	11.5	16.0	10.5	13.5
20	9.0	6.0	7.5	14.5	11.5	13.0	13.5	11.0	12.5	16.0	10.5	13.5
21	11.0	9.0	10.0	15.0	12.5	14.0	---	---	---	15.0	10.5	13.0
22	9.0	7.0	8.0	14.0	11.0	12.5	---	---	---	13.0	10.0	11.5
23	9.5	6.0	8.0	13.5	9.0	11.0	---	---	---	17.0	13.0	15.0
24	9.5	5.0	7.0	11.5	10.5	11.0	---	---	---	18.0	12.5	15.0
25	10.0	6.0	8.0	12.5	10.5	11.5	---	---	---	16.0	10.5	13.5
26	10.0	7.0	8.5	13.0	11.0	12.0	---	---	---	15.5	11.5	14.0
27	10.0	6.5	8.5	12.5	9.0	10.5	---	---	---	11.5	9.5	10.5
28	10.5	8.0	9.0	11.0	9.0	10.0	---	---	---	13.5	10.0	11.5
29	11.5	7.5	9.5	13.0	9.5	11.0	---	---	---	15.5	12.5	14.0
30	---	---	---	11.5	9.0	10.5	11.0	9.0	10.0	19.5	14.0	16.5
31	---	---	---	12.5	8.0	10.0	---	---	---	19.0	18.0	18.5
MONTH	13.5	1.5	7.0	15.0	6.5	10.5	---	---	---	19.5	9.0	12.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	12.5	15.0	16.0	13.0	14.5	15.0	13.5	14.0	19.5	16.0	18.0
2	14.5	11.5	13.0	16.5	13.0	15.0	15.0	13.0	14.0	18.5	15.0	16.5
3	16.0	11.5	14.0	15.5	11.5	14.0	15.5	13.0	14.0	17.0	14.5	16.0
4	16.0	12.5	14.0	15.5	14.0	15.0	15.5	13.0	14.0	---	---	---
5	13.5	11.0	12.5	18.0	15.5	16.5	15.0	13.0	14.0	---	---	---
6	17.0	13.5	15.5	17.0	14.0	15.5	15.0	13.5	14.0	---	---	---
7	21.0	16.0	19.0	18.0	13.5	15.5	15.0	13.5	14.0	19.0	14.5	16.5
8	18.0	12.5	15.0	18.5	14.0	16.0	15.0	13.5	14.0	16.0	13.5	15.0
9	15.5	13.0	14.0	16.5	13.0	15.0	15.5	13.5	14.5	15.5	13.5	14.5
10	14.5	11.5	13.0	15.5	12.5	14.0	16.5	13.5	15.0	18.0	12.5	15.0
11	15.5	11.0	13.5	16.0	12.5	14.0	16.0	13.0	14.5	19.5	15.0	17.0
12	14.5	11.0	13.0	16.5	13.0	15.0	16.0	13.0	14.5	20.5	15.5	18.0
13	15.0	12.5	14.0	17.0	13.0	15.0	18.0	13.0	15.5	20.5	16.0	18.5
14	15.0	11.5	13.5	16.5	13.0	15.0	15.0	13.0	14.0	18.0	14.0	16.0
15	14.0	11.5	13.0	16.0	12.5	14.0	18.5	13.0	15.5	---	---	---
16	16.5	11.0	14.0	15.5	11.5	14.0	21.5	16.0	19.0	---	---	---
17	---	---	---	15.0	11.5	13.5	16.5	13.5	15.0	---	---	---
18	---	---	---	15.0	11.5	13.5	17.0	13.0	15.0	16.5	13.5	15.0
19	---	---	---	15.0	11.5	13.5	17.0	13.0	15.0	16.0	13.5	15.0
20	---	---	---	14.5	12.5	13.5	20.0	13.0	16.5	16.5	14.5	15.5
21	24.0	17.0	20.5	14.5	12.5	13.5	21.0	13.0	17.0	17.0	14.5	16.0
22	22.0	13.0	17.5	14.5	12.5	13.5	17.0	13.0	15.0	18.0	13.5	15.5
23	19.0	11.5	15.5	14.5	12.5	13.5	16.5	13.0	15.0	18.0	13.5	15.5
24	16.5	11.5	14.0	15.0	12.5	14.0	16.0	13.0	14.5	18.0	15.5	16.5
25	18.0	15.5	16.5	15.5	12.5	14.0	18.5	13.0	15.5	16.5	15.0	16.0
26	---	---	---	15.0	13.0	14.0	18.5	13.5	16.0	16.0	14.5	15.5
27	---	---	---	15.0	13.0	14.0	16.0	13.5	15.0	18.5	16.0	17.0
28	21.5	15.0	18.5	15.0	13.0	14.0	---	---	---	19.0	16.5	18.0
29	22.0	14.5	18.5	14.5	13.0	14.0	---	---	---	16.5	14.5	15.5
30	18.5	14.0	16.0	15.0	13.0	14.0	19.5	15.5	17.5	15.5	14.5	15.0
31	---	---	---	15.0	13.0	14.0	19.5	14.0	16.5	---	---	---
MONTH	24.0	11.0	15.0	18.5	11.5	14.5	21.5	13.0	15.0	20.5	12.5	16.0

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
NOV. 20	34	6.2	5.1	1.1	0.6	0.0	2000	POLYETHYLENE

07060660 WHITE RIVER AT SYLAMORE, AR

LOCATION.--Lat 35°57'00", long 92°06'40", in N½ sec.12, T.15 N., R.11 W., Izard County, temperature recorder on right bank, 0.9 mi (1.4 km) upstream from bridge at Sylamore (revised), 0.8 mi (1.3 km) upstream from South Sylamore Creek, and 8.5 mi (13.7 km) downstream from Wideman Creek.

DRAINAGE AREA.--10,238 mi² (26,516 km²).

PERIOD OF RECORD.--October 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1966 to current year.

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Records furnished by Arkansas Game and Fish Commission, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 30.5°C July 6, 1971; minimum, 1.0°C Feb. 9, 1971.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C June 21.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.5	16.5	14.5	12.5	13.5	9.5	8.5	9.0	---	---	---
2	17.0	15.5	16.5	15.5	13.5	14.5	---	---	---	---	---	---
3	16.5	15.5	16.0	15.5	14.5	15.0	---	---	---	---	---	---
4	16.5	15.5	16.0	15.5	14.5	15.0	---	---	---	---	---	---
5	16.0	15.0	15.5	17.0	14.5	16.0	---	---	---	---	---	---
6	16.0	14.5	15.5	15.5	14.0	15.0	---	---	---	---	---	---
7	16.0	14.0	15.0	15.5	14.0	15.0	10.5	9.5	10.0	---	---	---
8	15.5	14.0	15.5	17.0	14.0	15.5	9.5	9.0	9.0	---	---	---
9	15.0	11.5	13.5	19.5	15.5	17.5	9.5	9.0	9.0	---	---	---
10	17.0	13.0	15.0	18.0	14.0	16.0	9.5	8.0	8.5	---	---	---
11	18.5	13.5	16.0	14.5	13.0	14.0	10.0	8.0	9.0	---	---	---
12	20.5	15.0	18.0	14.0	11.0	12.5	11.0	9.0	10.0	---	---	---
13	16.5	15.5	16.0	11.5	10.5	11.0	12.5	11.0	11.5	---	---	---
14	16.0	15.0	15.5	12.5	11.0	11.5	14.5	12.5	13.5	---	---	---
15	17.0	15.0	16.0	13.0	11.5	12.5	14.0	10.0	12.0	---	---	---
16	---	---	---	15.0	10.0	12.5	10.0	8.5	9.0	---	---	---
17	---	---	---	16.0	9.5	13.0	9.0	8.0	8.5	---	---	---
18	---	---	---	14.5	11.5	13.0	8.5	8.0	8.0	6.0	5.0	5.5
19	---	---	---	14.0	11.5	13.0	8.5	7.0	8.0	6.5	5.0	6.0
20	---	---	---	14.0	10.5	12.5	9.0	8.5	8.5	8.0	5.5	6.5
21	---	---	---	10.5	9.5	10.0	8.5	8.0	8.0	8.0	5.0	6.5
22	---	---	---	11.0	10.0	10.5	8.5	7.0	8.0	8.0	4.5	6.0
23	---	---	---	11.0	9.5	10.5	9.0	8.0	8.5	8.5	5.5	7.0
24	---	---	---	9.5	7.0	8.5	9.0	8.0	8.5	8.0	6.5	7.0
25	---	---	---	10.0	7.0	8.5	---	---	---	9.0	8.0	8.5
26	---	---	---	9.5	7.0	8.5	---	---	---	8.5	6.5	7.5
27	---	---	---	9.5	7.0	8.5	---	---	---	8.0	5.5	6.5
28	---	---	---	9.5	8.0	8.5	---	---	---	6.5	5.5	6.0
29	---	---	---	15.0	9.5	12.5	---	---	---	6.5	5.5	6.0
30	---	---	---	15.0	9.5	12.5	---	---	---	9.0	5.5	7.0
31	---	---	---	---	---	---	---	---	---	10.0	6.5	8.5
MONTH	---	---	---	19.5	7.0	12.5	---	---	---	---	---	---

07060660 WHITE RIVER AT SYLAMORE, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	5.0	6.5	16.0	13.0	14.5	14.5	11.0	13.0	12.5	11.5	12.0
2	8.0	4.5	6.0	16.0	14.5	15.5	16.5	11.5	14.0	13.0	11.5	12.5
3	7.0	5.0	6.0	16.5	14.0	15.5	18.0	13.5	15.5	13.0	11.5	12.5
4	6.0	6.0	6.0	17.0	14.0	15.5	20.0	15.0	17.5	13.0	11.5	12.5
5	6.0	6.0	6.0	15.0	12.5	14.0	20.5	14.0	17.0	13.0	12.5	12.5
6	6.0	5.0	5.5	13.5	10.0	11.5	17.0	13.0	15.0	13.0	12.5	12.5
7	6.0	4.0	5.0	14.5	9.0	11.5	14.5	11.0	13.0	14.0	13.0	13.5
8	8.0	3.0	5.5	11.5	10.5	11.0	14.0	11.0	12.5	13.5	12.5	13.0
9	10.5	4.0	7.0	10.5	9.5	10.5	13.5	10.5	12.0	15.5	11.5	14.0
10	11.5	8.5	10.0	10.0	8.5	9.0	15.0	10.0	12.5	15.0	14.0	14.5
11	13.0	9.5	11.0	11.0	10.0	10.5	18.0	13.0	15.5	14.5	12.5	13.5
12	9.5	8.5	9.0	11.0	10.5	11.0	19.5	14.5	17.0	15.0	12.5	14.0
13	12.5	8.5	10.5	10.5	8.5	9.5	16.0	13.0	14.5	14.5	11.0	13.0
14	11.5	9.5	10.5	13.0	10.0	11.5	17.0	14.0	15.5	12.5	11.0	11.5
15	15.0	10.0	12.5	14.0	11.5	13.0	16.0	13.5	15.0	14.5	12.5	13.5
16	17.0	13.0	15.0	12.5	8.5	10.5	16.0	13.5	15.0	19.0	13.5	16.0
17	15.5	11.5	14.0	11.0	9.0	10.0	17.0	16.0	16.5	16.0	15.0	15.5
18	13.5	10.0	11.5	12.5	11.0	11.5	19.0	10.5	15.0	15.5	14.5	15.0
19	14.0	9.0	11.5	16.5	12.5	14.5	14.5	10.5	12.5	17.0	14.0	15.5
20	12.5	8.5	10.5	18.0	15.0	16.5	15.5	14.0	15.0	18.0	15.5	16.5
21	13.5	11.0	12.5	18.0	13.0	15.5	14.0	12.5	13.0	18.0	15.5	16.5
22	13.0	8.0	10.5	16.0	11.0	14.0	13.5	11.5	12.5	15.5	13.5	14.5
23	13.5	6.0	10.0	15.0	11.5	13.5	14.5	12.5	13.5	18.5	13.5	16.0
24	10.5	8.0	9.0	14.0	13.0	13.5	12.5	11.5	12.0	21.0	17.0	19.5
25	12.5	9.5	11.0	14.5	13.0	14.0	11.5	10.5	11.0	18.5	15.5	17.0
26	14.0	9.5	11.5	15.0	14.0	14.5	12.5	10.0	11.0	20.5	15.0	18.0
27	13.5	9.5	11.5	16.0	13.0	14.5	12.5	11.5	12.0	15.0	12.5	14.0
28	13.0	10.5	11.5	14.0	12.5	13.5	12.5	10.5	11.5	14.0	13.0	13.5
29	14.5	10.5	12.5	14.5	12.5	13.5	11.0	10.0	10.5	16.5	14.5	15.5
30	---	---	---	13.5	11.5	12.5	11.5	10.5	11.0	19.5	16.5	18.0
31	---	---	---	14.0	11.0	12.5	---	---	---	20.5	19.5	20.0
MONTH	17.0	3.0	9.5	18.0	8.5	13.0	20.5	10.0	13.5	21.0	11.0	14.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	15.5	18.0	19.0	16.0	17.5	16.0		15.5	23.0		21.0
2	17.0	15.0	16.0	18.5	16.0	17.0	15.5		15.0	20.5		20.0
3	19.5	15.5	17.5	17.0	15.0	16.0	15.5		15.5	19.5		19.0
4	18.0	15.5	16.5	17.0	16.0	16.5	16.0		15.5	19.5		19.0
5	16.0	14.5	15.5	20.0	16.5	18.5	16.0		16.0	19.5		19.0
6	19.5	15.0	17.0	20.5	18.5	19.5	16.5		16.0	21.5		19.5
7	23.0	18.0	20.5	19.5	16.5	18.0	16.5		16.5	21.5		20.0
8	20.5	15.5	18.0	21.0	18.5	20.0	16.0		15.5	19.5		18.5
9	19.0	15.5	17.0	19.5	16.5	18.0	16.0		15.5	17.0		16.0
10	18.0	15.0	16.5	18.5	16.0	17.0	18.0		16.5	19.5		17.5
11	18.5	15.5	17.0	20.0	16.0	18.0	17.0		16.5	22.0		19.0
12	18.0	15.0	16.5	19.0	16.0	17.5	19.0		17.0	23.0		20.0
13	18.0	15.5	16.5	20.0	16.5	18.5	19.5		18.0	24.0		20.5
14	18.5	15.5	17.0	20.0	16.5	18.5	19.5		18.0	21.0		20.0
15	18.0	15.0	16.5	19.5	16.0	18.0	19.0		17.5	19.5		18.5
16	17.0	15.0	16.0	17.0	14.5	16.0	18.0		17.0	18.0		17.0
17	21.0	18.5	20.0	16.0	15.0	15.5	19.5		18.0	18.5		17.0
18	20.5	18.5	19.5	15.5	14.5	15.0	19.5		18.0	18.5		17.0
19	23.5	18.5	21.0	15.5	14.5	15.0	19.5		18.0	18.0		17.0
20	26.0	18.5	22.0	15.5	15.0	15.5	21.0		19.0	19.5		18.0
21	27.0	20.5	24.0	15.5	14.5	15.0	22.0		20.5	20.0		18.0
22	23.0	20.5	21.5	15.5	14.5	15.0	20.0		19.0	---		---
23	21.0	17.0	19.5	15.5	14.5	15.0	25.5		22.0	21.0		19.0
24	19.0	15.0	17.0	15.5	14.5	15.0	22.0		19.5	19.0		18.0
25	19.0	18.0	18.5	16.0	14.5	15.5	19.5		18.0	18.5		17.5
26	19.5	18.0	19.0	16.0	14.5	15.5	20.0		19.0	20.0		19.0
27	21.0	18.0	19.5	15.5	15.0	15.5	19.5		18.0	21.5		20.0
28	23.0	19.0	21.0	15.5	15.5	15.5	16.5		16.5	19.5		17.5
29	24.0	19.5	21.5	16.0	14.5	15.5	20.0		18.0	16.5		16.0
30	23.5	18.5	21.0	16.0	15.0	15.5	22.0		20.0	16.0		16.0
31	---	---	---	16.0	15.0	15.5	20.5		19.5	---		---
MONTH	27.0	14.5	18.5	21.0	14.5	16.5	25.5		17.5	24.0		18.5

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, AR
(Hydrologic bench-mark station)

LOCATION.--Lat 35°59'30", long 92°12'50", in SW¼NW¼ sec.25, T.16 N., R.12 W., Stone County, on right bank 30 ft (9 m) upstream from bridge on Ozark National Forest service road, 200 ft (61 m) downstream from Gunner Creek, 2.7 mi (4.3 km) north of Fifty Six, and 7.0 mi (11.3 km) upstream from South Sylamore Creek.

DRAINAGE AREA.--58.1 mi^2 (150.5 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1965 to current year.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 434.99 ft (132.585 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--10 years, 52.4 ft^3/s (1.48 m^3/s), 12.18 in/yr (309 mm/yr), 37,960 acre-ft/yr (46.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,800 ft^3/s (504 m^3/s) Apr. 22, 1973, gage height, 17.61 ft (5.367 m), from floodmarks, from rating curve extended above 3,700 ft^3/s (105 m^3/s) on basis of step-backwater computations; minimum, 1.8 ft^3/s (0.051 m^3/s) Sept. 19, 20, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 460 ft^3/s (13.0 m^3/s) June 1, gage height, 3.69 ft (1.125 m), no peaks above base of 2,800 ft^3/s (79.3 m^3/s); minimum daily, 3.0 ft^3/s (0.085 m^3/s) Aug. 31, Sept. 1, 2.

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	4.1	5.2	17	40	9.4	12	58	20	200	8.4	5.7	3.0
2	4.4	5.3	11	24	8.9	12	42	18	127	7.9	6.1	3.0
3	4.1	6.4	8.3	20	8.6	12	34	16	49	9.6	5.4	4.5
4	3.9	8.2	7.1	16	8.4	12	28	14	35	20	4.9	4.1
5	3.9	8.2	6.8	12	8.2	22	24	13	31	15	4.7	3.9
6	4.0	7.4	24	12	7.8	20	21	13	32	10	4.8	3.8
7	4.0	6.6	25	12	7.5	17	19	12	24	8.3	4.7	3.7
8	4.0	6.1	14	11	7.5	24	17	11	19	7.5	4.7	3.6
9	3.9	5.8	11	9.4	7.7	126	16	11	15	6.9	4.5	3.5
10	4.3	6.7	8.6	9.9	7.8	105	15	11	13	6.6	4.5	3.4
11	4.3	7.0	7.5	11	7.6	70	15	11	11	6.4	4.4	3.3
12	4.3	6.5	6.9	10	7.4	49	14	11	11	6.1	4.3	3.3
13	4.5	5.7	6.6	9.4	7.3	35	13	12	9.9	6.0	4.3	3.3
14	4.7	5.4	6.3	8.3	7.3	27	14	12	9.7	5.8	4.3	3.2
15	4.7	5.2	7.9	8.0	7.2	24	13	19	9.8	5.8	4.3	3.2
16	5.1	5.2	10	7.7	7.1	22	13	29	15	6.8	4.3	3.3
17	4.8	5.1	9.4	7.6	14	18	13	18	12	6.5	4.2	3.5
18	5.0	4.9	8.0	7.6	54	17	12	14	11	6.1	4.0	3.6
19	4.9	5.3	6.3	7.5	40	16	16	12	10	5.7	4.0	3.5
20	5.0	5.7	6.5	7.9	27	16	23	11	9.5	5.5	3.9	3.5
21	5.2	6.2	6.3	7.5	26	14	47	10	9.0	5.4	3.8	3.6
22	5.1	6.1	6.3	7.3	23	13	37	9.7	8.9	5.1	3.7	3.7
23	5.1	5.5	6.0	7.4	19	12	25	9.1	39	5.1	3.6	3.5
24	5.3	5.3	5.7	7.5	17	12	33	8.9	86	5.0	3.5	3.7
25	7.2	5.1	6.6	17	16	12	90	8.5	49	4.8	3.4	3.3
26	7.2	5.4	8.0	26	15	13	71	9.2	27	4.9	3.3	3.3
27	6.1	5.6	8.8	17	14	13	46	105	16	4.9	3.2	3.3
28	5.6	5.5	12	14	13	13	32	252	12	4.9	3.1	3.4
29	5.6	6.0	250	12	13	87	26	91	10	4.7	3.1	3.6
30	5.4	14	148	11	---	163	22	51	9.4	4.9	3.1	3.8
31	5.3	---	66	10	---	89	---	30	---	5.0	3.0	---
TOTAL	151.0	186.6	731.9	388.0	416.7	1097	849	872.4	920.2	215.6	128.8	105.4
MEAN	4.87	6.22	23.6	12.5	14.4	35.4	28.3	28.1	30.7	6.95	4.15	3.51
MAX	7.2	14	250	40	54	163	90	252	200	20	6.1	4.5
MIN	3.9	4.9	5.7	7.3	7.1	12	12	8.5	8.9	4.7	3.0	3.0
CFSM	.08	.11	.41	.22	.25	.61	.49	.48	.53	.12	.07	.06
IN.	.10	.12	.47	.25	.27	.70	.54	.56	.59	.14	.08	.07
AC-FT	300	370	1450	770	827	2180	1680	1730	1830	428	255	209

CAL YR 1975 TOTAL 18553.8 MEAN 50.8 MAX 2580 MIN 3.9 CFSM .87 IN 11.88 AC-FT 36800
WTR YR 1976 TOTAL 6062.6 MEAN 16.6 MAX 252 MIN 3.0 CFSM .29 IN 3.88 AC-FT 12030

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)
OCT										
17...	1028	1028	4.5	302	7.9	--	15.0	2	9.1	93
17-31	1028	1028	--	--	--	--	--	--	--	--
NOV										
01-20	1028	1028	--	--	--	--	--	--	--	--
20...	1028	1028	5.1	307	8.0	--	10.0	0	11.0	99
DEC										
18...	1028	1028	7.5	298	8.1	--	2.0	0	13.4	100
JAN										
09...	1028	1028	8.7	--	--	-.6	.5	--	--	--
22...	1028	1028	7.0	288	7.9	--	4.5	--	11.4	91
FEB										
19...	1028	1028	41	--	--	12.0	8.5	--	--	--
25...	1028	1028	16	274	7.9	--	13.0	--	10.6	104
MAR										
25...	1028	1028	12	266	8.1	--	13.0	1	9.4	92
31...	1028	1028	87	--	--	--	12.0	--	--	--
APR										
21...	1028	1028	49	279	8.0	--	15.5	--	9.7	100
MAY										
06...	1028	1028	13	--	--	26.0	18.5	--	--	--
27...	1028	1028	28	260	8.5	--	15.5	4	8.2	84
JUN										
02...	1028	1028	113	--	--	--	18.0	--	--	--
23...	1028	1028	36	--	--	23.0	19.5	--	--	--
24...	1028	1028	39	278	8.2	--	16.5	1	8.7	92
JUL										
21...	1028	1028	4.5	286	8.1	--	27.5	--	9.3	119
AUG										
04...	1028	1028	5.0	--	--	27.0	24.0	--	--	--
25...	1028	1028	4.1	281	7.6	--	22.0	--	9.0	106
SEP										
16...	1028	1028	3.2	--	--	28.0	21.0	--	--	--
23...	1028	1028	3.5	284	7.7	--	17.5	9	9.5	102

DATE	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) (00335)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)
OCT										
17...	--	590	0	290	150	0	50	7.1	1.5	2
17-31	--	--	--	--	--	--	--	--	--	--
NOV										
01-20	--	--	--	--	--	--	--	--	--	--
20...	6	210	8880	B170	160	0	52	6.7	2.4	3
DEC										
18...	1	58	0	B2	150	1	49	6.7	2.3	3
JAN										
09...	--	--	--	--	--	--	--	--	--	--
22...	--	B26	0	<2	150	0	42	11	2.3	3
FEB										
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	0	1	150	10	35	14	2.7	4
MAR										
25...	18	--	--	--	140	0	45	6.5	1.4	2
31...	--	--	--	--	--	--	--	--	--	--
APR										
21...	--	50	8	86	140	0	45	6.1	3.3	5
MAY										
06...	--	--	--	--	--	--	--	--	--	--
27...	--	--	B69	570	140	7	45	5.7	1.6	2
JUN										
02...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
24...	--	790	38	280	140	8	48	5.4	1.8	3
JUL										
21...	--	110	B5	--	140	0	45	6.6	1.4	2
AUG										
04...	--	--	--	--	--	--	--	--	--	--
25...	--	110	11	62	150	11	47	7.4	1.5	2
SEP										
16...	--	--	--	--	--	--	--	--	--	--
23...	--	200	4	120	150	2	46	7.6	1.6	2

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SODIUM AD-SORP-TION RATIO (00931)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L) (00935)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)
OCT										
17...	.1	1.0	188	0	154	3.8	3.7	2.7	.1	7.1
17-31	--	--	--	--	--	--	--	--	--	--
NOV										
01-20	--	--	--	--	--	--	--	--	--	--
20...	.1	.9	203	0	167	3.2	3.9	2.6	.1	6.4
DEC										
18...	.1	.8	181	0	148	2.3	3.7	2.6	.1	6.4
JAN										
09...	--	--	--	--	--	--	--	--	--	--
22...	.1	1.0	188	0	154	3.8	6.3	2.3	.1	3.9
FEB										
19...	--	--	--	--	--	--	--	--	--	--
25...	.1	1.3	165	0	135	3.3	6.4	3.8	.1	3.0
MAR										
25...	.1	.8	170	0	139	2.2	4.7	1.5	.0	6.1
31...	--	--	--	--	--	--	--	--	--	--
APR										
21...	.1	.8	176	0	144	2.8	6.0	2.6	.1	7.1
MAY										
06...	--	--	--	--	--	--	--	--	--	--
27...	.1	.8	157	0	129	.8	5.3	1.8	.1	7.5
JUN										
02...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
24...	.1	.6	164	0	135	1.7	5.0	1.6	.1	8.5
JUL										
21...	.1	.8	175	0	144	2.2	5.2	2.4	.1	8.9
AUG										
04...	--	--	--	--	--	--	--	--	--	--
25...	.1	.9	167	0	137	6.7	4.3	2.1	.1	8.9
SEP										
16...	--	--	--	--	--	--	--	--	--	--
23...	.1	.8	181	0	148	5.8	5.9	1.6	.1	8.1

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT									
17...	166	166	.23	2.02	.01	.12	.13	.58	.01
17-31	--	--	--	--	--	--	--	--	--
NOV									
01-20	--	--	--	--	--	--	--	--	--
20...	174	175	.24	2.40	.06	.35	.41	1.8	.00
DEC									
18...	177	161	.24	3.58	.01	.07	.08	.35	.00
JAN									
09...	--	--	--	--	--	--	--	--	--
22...	158	162	.21	2.99	.10	--	--	--	.10
FEB									
19...	--	--	--	--	--	--	--	--	--
25...	154	148	.21	6.65	.03	--	--	--	.00
MAR									
25...	151	150	.21	4.89	.04	.22	.26	1.2	.02
31...	--	--	--	--	--	--	--	--	--
APR									
21...	162	158	.22	21.4	.01	--	--	--	.00
MAY									
06...	--	--	--	--	--	--	--	--	--
27...	142	145	.19	10.7	.07	.13	.20	.89	.01
JUN									
02...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
24...	158	152	.21	16.6	.05	.19	.24	1.1	.01
JUL									
21...	164	157	.22	1.99	.08	--	--	--	.00
AUG									
04...	--	--	--	--	--	--	--	--	--
25...	155	155	.21	1.72	.06	--	--	--	.00
SEP									
16...	--	--	--	--	--	--	--	--	--
23...	--	161	.22	1.52	.08	.17	.25	1.1	.01

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL BARIUM (BA) (UG/L) (01007)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)
OCT 17...	--	--	--	--	--	--	--	--	--
NOV 20...	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--
JAN 22...	0	0	<10	0	10	0	<100	100	.0
FEB 25...	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--
APR 21...	--	--	--	--	--	--	--	--	--
MAY 27...	--	--	--	--	--	--	--	--	--
JUN 24...	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--
AUG 25...	--	--	--	--	--	--	--	--	--
SEP 23...	--	--	--	--	--	--	--	--	--

DATE	TOTAL SELENIUM (SE) (UG/L) (01147)	TOTAL SILVER (AG) (UG/L) (01077)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	CYANIDE (CN) (MG/L) (00720)	SUSPENDED SEDIMENT (MG/L) (80154)	SUSPENDED SEDIMENT DISCHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 17...	--	--	--	1.0	--	3	.04	--
NOV 20...	--	--	--	--	--	4	.06	--
DEC 18...	--	--	--	--	--	6	.12	69
JAN 22...	0	<10	40	--	.00	9	.17	64
FEB 25...	--	--	--	--	--	6	.26	--
MAR 25...	--	--	--	--	--	10	.32	25
APR 21...	--	--	--	2.2	--	5	.66	--
MAY 27...	--	--	--	--	--	10	.76	--
JUN 24...	--	--	--	--	--	7	.74	--
JUL 21...	--	--	--	--	--	8	.10	--
AUG 25...	--	--	--	--	--	6	.07	--
SEP 23...	--	--	--	--	--	7	.07	75

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
NOV. 20	34	17	7.8	9.2	0.8	0.2	11000	POLYETHYLENE STRIP

NOV. 20, 1975
0945 HOURS

IDENTIFICATION OF BENTHIC INVERTEBRATES
COLLECTED BY A MULTIPLATE ARTIFICIAL SUBSTRATE
LENGTH OF EXPOSURE 34 DAYS

97 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA		
.INSECTA		
..COLEOPTERA	BEETLES	
...ELMIDAE	RIFFLE BEETLES	
....DUBIRAPHIA		1
...PSEPHENIDAE	WATER PENNIES	
....ECTOPRIA		1
..DIPTERA		
...CHIRONOMIDAE	MIDGES	
....CORYNONEURA		5
....MICROTENDIPES		16
....PENTANEURA		34
....TANYTARSUS		6
..EPHEMEROPTERA	MAY FLIES	
...BAETIDAE		
....BAETIS		2
...EPHEMERELLIDAE		
....EPHEMERELLA		11
...HEPTAGENIIDAE		
....STENONEMA		6
..TRICHOPTERA	CADDIS FLIES	
...PSYCHOMYIIDAE		
....POLYCENTROPUS		3
...LEPTOCERIDAE		
....MYSTACIDES		1
MOLLUSCA		
.GASTROPODA	SNAILS	
..BASOMMATOPHORA		
...PLANORBIDAE	ORB SNAILS	
....HELISOMA		2
....MENETUS		2
..MESOGASTROPODA		
...PLEUROCERIDAE		
....GONIOBASIS		7

NOTE: ANALYSIS METHOD: STAIN & SCREEN, 50-X & 200-X MICROSCOPES
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.510
CLASS	0.510
ORDER	1.650
FAMILY	1.963
GENERA	3.012
INSECTA	1.165

07061105 WHITE RIVER AT OIL TROUGH, AR

LOCATION.--Lat 35°38'36", long 91°27'42", in NW¼NE¼ sec.30, T.12 N., R.4 W., Independence County, at Oil Trough Ferry on State Highway 122, and 0.8 mi (1.3 km) north of Oil Trough.

DRAINAGE AREA.--11,234 mi² (29,096 km²).

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

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 22...	9827	9827	251	8.1	21.0	16.0	5	8	9.8	98	1.1	--
NOV 25...	9827	9827	242	7.9	3.0	8.0	20	4	11.6	97	2.2	540
JAN 28...	9827	9827	250	8.3	10.0	7.0	5	8	12.5	102	2.3	210
FEB 25...	9827	9827	263	8.2	13.0	11.0	5	10	11.0	99	2.2	790
MAR 24...	9827	9827	273	8.1	14.0	13.0	10	8	10.1	95	2.3	6000
APR 21...	9827	9827	286	8.2	18.0	14.0	5	5	10.4	100	1.5	2100
MAY 26...	9827	9827	273	8.3	13.0	17.0	5	<25	9.2	95	1.7	1400
JUN 23...	9827	9827	295	8.2	21.0	22.0	15	7	8.2	93	1.8	96
JUL 19...	9827	9827	284	8.0	35.0	20.0	10	7	9.9	108	4.2	100
AUG 16...	9827	9827	308	7.9	29.0	22.0	10	8	7.4	84	3.0	280
SEP 20...	9827	9827	308	8.2	29.0	21.0	5	6	9.2	102	2.3	600

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 22...	640	--	150	0	37	92	13	2.1	.1	180	0	148
NOV 25...	50	12	--	--	--	--	--	--	--	--	--	--
JAN 28...	27	--	120	0	27	68	13	2.0	1.0	160	0	131
FEB 25...	160	--	--	--	--	--	--	--	--	--	--	--
MAR 24...	290	--	--	--	--	--	--	--	--	--	--	--
APR 21...	340	--	140	9	36	90	12	2.6	1.5	160	0	131
MAY 26...	460	--	--	--	--	--	--	--	--	--	--	--
JUN 23...	1700	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	17	15	140	9	37	92	13	4.1	1.2	160	0	131
AUG 16...	87	25	--	--	--	--	--	--	--	--	--	--
SEP 20...	210	220	--	--	--	--	--	--	--	--	--	--

07061105 WHITE RIVER AT OIL TROUGH, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
22...	2.3	6.0	4.5	--	--	--	.31	.01	<3	<10	0	<10
NOV												
25...	--	2.0	3.5	196	8	204	.48	.01	--	--	--	--
JAN												
28...	1.3	5.0	5.5	152	15	167	.38	.01	<3	<10	<3	<10
FEB												
25...	--	3.0	5.0	155	32	187	.20	.02	--	--	--	--
MAR												
24...	--	7.0	5.5	169	44	213	.17	.03	--	--	--	--
APR												
21...	1.6	2.0	4.0	148	9	157	.51	<.01	<3	<10	<3	<10
MAY												
26...	--	2.0	4.0	127	21	148	.14	.02	--	--	--	--
JUN												
23...	--	4.0	3.5	185	9	194	--	.03	--	--	--	--
JUL												
19...	2.6	.0	5.5	160	11	171	.31	.01	<3	<10	<3	<10
AUG												
16...	--	3.0	4.5	164	21	185	.28	.04	--	--	--	--
SEP												
20...	--	4.0	5.0	152	15	167	.29	<.01	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
22...	170	<10	40	20	--	--	--	--	--	--	--	--
NOV												
25...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN												
28...	240	<10	56	<10	--	--	--	--	--	--	--	--
FEB												
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
21...	100	<10	27	<10	--	--	--	--	--	--	--	--
MAY												
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	200	<10	38	<10	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

07064000 BLACK RIVER NEAR CORNING, AR

LOCATION.--Lat 36°24'07", long 90°32'29", in SW¼NE¼ sec.4, T.20 N., R.5 E., Clay County, near left bank on downstream side of bridge on U.S. Highway 62, 2.2 mi (3.5 km) east of Corning, 11.9 mi (19.1 km) downstream from Cane Creek, and at mile 152.2 (244.9 km).

DRAINAGE AREA.--1,749 mi^2 (4,530 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Gage-height records collected at site 7.0 mi (11.3 km) downstream January 1925 to December 1929 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 272.90 ft (83.180 m) above mean Gulf level (Corps of Engineers bench mark). Prior to Nov. 5, 1953, nonrecording gage, and Nov. 5, 1953, to Oct. 9, 1957, water-stage recorder, at site 30 ft (9 m) downstream at present datum.

REMARKS.--Records good. Some regulation by Clearwater Lake (Missouri), 105 mi (169 km) upstream, since June 3, 1948, capacity, 413,700 acre-ft (510 hm^3).

AVERAGE DISCHARGE.--38 years, 1,799 ft^3/s (50.9 m^3/s), 1,303,000 acre-ft/yr (1,620 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,600 ft^3/s (1,380 m^3/s) June 13, 1945; maximum gage height, 16.92 ft (5.157 m) June 13, 1945; minimum discharge, 224 ft^3/s (6.34 m^3/s) Sept. 22-27, 1941; minimum gage height observed, -0.52 ft (-0.158 m) Sept. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 18, 1927, reached a stage of 14.4 ft (4.39 m), from records of Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,310 ft^3/s (179 m^3/s) Dec. 9, gage height, 11.74 ft (3.578 m); minimum, 371 ft^3/s (10.5 m^3/s) Sept. 22, 23, gage height, 0.92 ft (0.280 m).

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	1070	644	1400	3980	1340	1530	3340	1640	1280	2500	812	420
2	989	645	1650	3960	1250	1450	3350	1650	1620	2110	734	415
3	919	631	1630	3570	1180	1340	3070	1620	1680	1860	699	405
4	877	633	1470	3130	1150	1290	2850	1490	1550	2180	678	399
5	839	711	1370	2880	1110	1330	2670	1400	1360	2980	680	400
6	806	742	1740	2740	1090	1450	2590	1300	1200	3570	671	396
7	756	757	2820	2610	1060	1470	2530	1190	1110	3840	642	391
8	717	764	4400	2520	1030	1480	2500	1110	1080	3710	611	388
9	695	779	6270	2470	1000	1490	2470	1080	1050	3130	590	396
10	672	806	5940	2290	983	1500	2330	1050	1020	2600	572	400
11	646	818	4860	2080	969	1490	2120	1020	995	2230	549	396
12	624	832	3850	1850	954	1490	1880	980	969	1990	519	397
13	609	830	3350	1670	937	1500	1650	955	944	1930	496	395
14	603	820	2910	1510	918	1500	1440	938	918	1890	484	390
15	596	809	2730	1380	903	1490	1270	916	892	1880	482	385
16	590	799	2680	1300	892	1480	1170	889	1290	1870	494	383
17	585	792	2770	1260	1070	1450	1100	889	1950	1860	506	383
18	581	782	2920	1200	1770	1430	1070	900	2320	1840	499	384
19	576	749	2920	1140	2310	1410	1040	885	2640	1810	480	383
20	572	689	2800	1110	2440	1400	1030	865	2810	1780	464	380
21	566	697	2690	1080	2500	1450	1020	850	3290	1750	454	377
22	554	690	2620	1070	2600	1480	1010	839	3060	1710	450	374
23	543	683	2470	1050	2710	1400	984	819	2870	1680	451	373
24	539	670	2250	1030	2650	1320	969	787	2920	1650	448	377
25	553	654	2080	1190	2450	1280	1040	757	3540	1620	453	384
26	560	649	2060	1700	2230	1230	1380	737	4140	1570	451	382
27	564	649	2150	2060	2010	1260	1430	730	4170	1450	447	387
28	557	649	2310	2100	1810	1450	1340	797	3760	1320	443	409
29	547	655	2450	1970	1650	1760	1330	1030	3300	1170	438	424
30	569	754	2770	1740	---	2290	1500	1220	2900	1020	432	415
31	616	---	3640	1520	---	3050	---	1240	---	890	427	---
TOTAL	20490	21782	87970	61160	44966	46940	53473	32573	62628	63390	16556	11788
MEAN	661	726	2838	1973	1551	1514	1782	1051	2088	2045	534	393
MAX	1070	832	6270	3980	2710	3050	3350	1650	4170	3840	812	424
MIN	539	631	1370	1030	892	1230	969	730	892	890	427	373
AC-FT	40640	43200	174500	121300	89190	93110	106100	64610	124200	125700	32840	23380

CAL YR 1975 TOTAL 880217 MEAN 2412 MAX 24600 MIN 537 AC-FT 1746000
WTR YR 1976 TOTAL 523716 MEAN 1431 MAX 6270 MIN 373 AC-FT 1039000

07064000 BLACK RIVER NEAR CORNING, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: Water years 1947-60, 1966, October 1970 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1956 to September 1959.

REMARKS.--Records of additional water temperatures are published in Analyses of Samples Collected at Partial-Record Water-Quality Stations of this report.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
07...	9827	9827	760	245	7.8	23.0	19.0	10	20	8.9
08...	1028	1028	735	--	--	--	18.0	--	--	--
NOV										
04...	9827	9827	626	236	7.9	18.0	16.0	15	20	8.6
20...	1028	1028	688	--	--	--	11.0	--	--	--
DEC										
15...	9827	9827	2640	168	7.6	3.0	7.0	40	35	8.7
31...	1028	1028	3390	--	--	6.0	6.0	--	--	--
JAN										
14...	9827	9827	1480	226	7.7	9.0	7.0	15	15	11.8
FEB										
11...	9827	9827	971	243	8.0	13.0	6.0	10	15	11.9
11...	1028	1028	986	--	--	12.0	8.0	--	--	--
MAR										
22...	9827	9827	1490	214	8.0	22.0	13.0	50	80	9.1
24...	1028	1028	1390	--	--	19.5	15.0	--	--	--
APR										
13...	9827	9827	1640	233	7.7	14.0	16.0	20	140	9.0
MAY										
07...	1028	1028	1280	--	--	13.5	16.5	--	--	--
12...	9827	9827	940	255	8.0	23.0	19.0	10	30	8.5
JUN										
09...	9827	9827	1030	311	--	30.0	20.0	20	50	8.1
22...	1028	1028	3040	--	--	23.5	22.0	--	--	--
JUL										
13...	9827	9827	1940	180	7.7	36.0	26.0	30	65	7.1
AUG										
03...	1028	1028	703	--	--	23.5	25.0	--	--	--
10...	9827	9827	574	282	7.7	29.0	25.0	15	40	7.4
SEP										
09...	1028	1028	398	--	--	25.0	23.5	--	--	--
14...	9827	9827	392	304	8.2	26.0	24.0	5	25	8.1

07064000 BLACK RIVER NEAR CORNING, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
07...	95	1.2	60	100	70	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	86	1.2	--	170	80	130	0	30	74	14
20...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	71	2.4	400	270	380	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
JAN										
14...	97	2.5	160	27	--	--	--	--	--	--
FEB										
11...	96	2.3	38	8	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	86	1.8	--	1100	290	110	3	25	62	12
24...	--	--	--	--	--	--	--	--	--	--
APR										
13...	90	4.3	160	46	13	--	--	--	--	--
MAY										
07...	--	--	--	--	--	--	--	--	--	--
12...	90	1.0	100	35	--	--	--	--	--	--
JUN										
09...	88	1.8	480	60	--	130	--	26	66	15
22...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	87	1.5	560	200	30	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	88	2.2	30	<13	30	--	--	--	--	--
SEP										
09...	--	--	--	--	--	--	--	--	--	--
14...	94	1.4	1900	73	--	200	61	42	110	22

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
07...	--	--	--	--	--	--	8.0	5.5	166	29
08...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	3.5	1.4	170	0	139	3.4	--	5.0	167	28
20...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	--	--	--	--	--	--	4.0	4.5	108	58
31...	--	--	--	--	--	--	--	--	--	--
JAN										
14...	--	--	--	--	--	--	7.0	6.0	132	30
FEB										
11...	--	--	--	--	--	--	5.0	4.5	154	36
11...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	3.8	2.1	130	0	107	2.1	5.0	5.5	156	110
24...	--	--	--	--	--	--	--	--	--	--
APR										
13...	--	--	--	--	--	--	8.0	5.5	155	390
MAY										
07...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	5.0	5.0	154	43
JUN										
09...	3.0	1.1	--	0	--	--	5.0	4.5	154	56
22...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	4.0	4.0	125	73
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	6.0	4.0	158	58
SEP										
09...	--	--	--	--	--	--	--	--	--	--
14...	3.3	1.1	170	0	139	1.7	5.0	6.0	173	32

07064000 BLACK RIVER NEAR CORNING, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
07...	195	.11	.04	--	<10	0	<10	740	<10	210
08...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	195	.22	.07	<3	<10	0	<10	1000	--	210
20...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	166	.25	.15	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
JAN										
14...	162	.42	.06	--	--	--	--	--	--	--
FEB										
11...	190	.23	.01	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	266	.30	.14	<3	<10	<3	<10	3000	<10	260
24...	--	--	--	--	--	--	--	--	--	--
APR										
13...	545	.32	.20	--	--	--	--	--	--	--
MAY										
07...	--	--	--	--	--	--	--	--	--	--
12...	197	.12	.08	--	--	--	--	--	--	--
JUN										
09...	210	.20	.10	<3	<10	<3	<10	1600	<10	180
22...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	198	.29	.15	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
10...	216	.25	<.01	--	<10	--	10	1300	--	390
SEP										
09...	--	--	--	--	--	--	--	--	--	--
14...	205	.32	.12	<3	<10	<3	10	680	<10	110

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
07...	<10	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
NOV									
04...	10	.00	.00	.00	.00	.00	.00	.00	<1
20...	--	--	--	--	--	--	--	--	--
DEC									
15...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
JAN									
14...	--	--	--	--	--	--	--	--	--
FEB									
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
MAR									
22...	<10	.00	.00	.00	.00	.00	.00	--	--
24...	--	--	--	--	--	--	--	--	--
APR									
13...	--	--	--	--	--	--	--	--	--
MAY									
07...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
JUN									
09...	<10	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
JUL									
13...	--	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
10...	240	--	--	--	--	--	--	--	--
SEP									
09...	--	--	--	--	--	--	--	--	--
14...	<10	--	--	--	--	--	--	--	--

07068850 CURRENT RIVER NEAR POCAHONTAS, AR

LOCATION.--Lat 36°17'55", long 90°51'30", in SE¼SE¼ sec.10, T.19 N., R.2 E., Randolph County, at bridge on U.S. Highway 67, 5.5 mi (8.8 km) northeast of Pocahontas.

DRAINAGE AREA.--2,606 mi^2 (6,750 km^2).

PERIOD OF RECORD.--Water years 1955-58, October 1970 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
07...	9827	9827	1800	271	8.0	22.0	18.0	5	4	9.8
NOV										
04...	9827	9827	2100	276	8.1	18.0	16.0	10	6	9.2
DEC										
15...	9827	9827	4000	187	7.9	2.0	11.0	45	15	9.1
JAN										
28...	9827	9827	2900	222	8.1	2.0	5.0	45	20	12.1
FEB										
25...	9827	9827	2800	228	8.0	12.0	11.0	30	40	10.4
MAR										
24...	9827	9827	2600	294	8.1	15.0	13.0	15	10	9.8
APR										
21...	9827	9827	2300	308	8.1	12.0	17.0	10	5	9.0
MAY										
26...	9827	9827	2000	322	8.2	14.0	17.0	5	<25	8.8
JUN										
23...	9827	9827	2700	292	8.2	20.0	22.0	10	9	8.2
JUL										
19...	9827	9827	2400	315	8.1	27.0	24.0	10	6	8.4
AUG										
16...	9827	9827	1500	345	8.2	30.0	26.0	5	8	7.7
SEP										
20...	9827	9827	1300	364	8.2	29.0	23.0	10	6	8.4

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
07...	103	1.3	40	10	20	--	--	--	--	--
NOV										
04...	92	.6	--	210	230	150	0	32	80	18
DEC										
15...	82	1.1	390	160	110	--	--	--	--	--
JAN										
28...	95	2.2	350	110	--	120	0	23	58	14
FEB										
25...	94	2.3	220	190	--	--	--	--	--	--
MAR										
24...	92	1.6	75	54	--	--	--	--	--	--
APR										
21...	93	1.2	110	7	--	150	0	33	82	17
MAY										
26...	91	1.3	100	10	--	--	--	--	--	--
JUN										
23...	93	1.3	220	20	--	--	--	--	--	--
JUL										
19...	99	2.0	180	23	20	160	12	30	76	19
AUG										
16...	94	1.0	--	25	20	--	--	--	--	--
SEP										
20...	97	1.0	20	30	15	--	--	--	--	--

07068850 CURRENT RIVER NEAR POCAHONTAS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
07...	--	--	--	--	--	--	3.0	5.0	178	7
NOV										
04...	3.5	.1	200	0	164	2.5	--	4.0	178	9
DEC										
15...	--	--	--	--	--	--	2.0	4.0	140	20
JAN										
28...	2.0	1.0	150	0	123	1.9	9.0	4.5	146	23
FEB										
25...	--	--	--	--	--	--	7.0	4.0	152	84
MAR										
24...	--	--	--	--	--	--	6.0	4.0	191	14
APR										
21...	2.6	.8	190	0	156	2.4	2.0	3.5	169	14
MAY										
26...	--	--	--	--	--	--	<1.0	3.5	159	9
JUN										
23...	--	--	--	--	--	--	1.0	4.5	185	15
JUL										
19...	4.0	.9	180	0	148	2.3	2.0	3.0	163	27
AUG										
16...	--	--	--	--	--	--	<1.0	3.5	185	12
SEP										
20...	--	--	--	--	--	--	1.0	4.5	182	11

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
07...	185	.10	<.01	--	<10	0	<10	220	<10	110
NOV										
04...	187	.34	.04	<3	<10	0	<10	230	<10	35
DEC										
15...	160	.34	.09	--	--	--	--	--	--	--
JAN										
28...	169	.42	.03	<3	<10	<3	<10	870	<10	33
FEB										
25...	236	.29	.08	--	--	--	--	--	--	--
MAR										
24...	205	.27	.03	--	--	--	--	--	--	--
APR										
21...	183	.29	<.01	<3	<10	<3	<10	190	<10	71
MAY										
26...	168	.19	.01	--	--	--	--	--	--	--
JUN										
23...	200	--	.02	--	--	--	--	--	--	--
JUL										
19...	190	.25	.03	<3	<10	<3	<10	320	<10	76
AUG										
16...	197	.16	<.01	--	--	--	--	--	--	--
SEP										
20...	193	.25	.01	--	--	--	--	--	--	--

07068850 CURRENT RIVER NEAR POCAHONTAS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
07...	<10	--	--	--	--	--	--	--	--
NOV									
04...	<10	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
15...	--	--	--	--	--	--	--	--	--
JAN									
28...	<10	--	--	--	--	--	--	--	--
FEB									
25...	--	--	--	--	--	--	--	--	--
MAR									
24...	--	--	--	--	--	--	--	--	--
APR									
21...	<10	--	--	--	--	--	--	--	--
MAY									
26...	--	--	--	--	--	--	--	--	--
JUN									
23...	--	--	--	--	--	--	--	--	--
JUL									
19...	<10	--	--	--	--	--	--	--	--
AUG									
16...	--	--	--	--	--	--	--	--	--
SEP									
20...	--	--	--	--	--	--	--	--	--

07069266 SPRING RIVER NEAR HARDY, AR

LOCATION.--Lat 36°20'00", long 91°30'30", in SW¼SW¼ sec.34, T.20 N., R.5 W., Fulton County, at low-water bridge on county road, 1.8 mi (2.9 km) upstream from South Fork Spring River, and 2.2 mi (3.5 km) northwest of Hardy.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
07...	9827	9827	--	336	8.1	24.0	17.0	10	7	9.8
NOV										
04...	9827	9827	1350	369	8.1	21.0	16.0	10	6	9.3
DEC										
15...	9827	9827	--	356	8.2	3.0	12.0	5	9	9.9
JAN										
28...	9827	9827	600	414	8.3	12.0	7.0	5	2	12.8
FEB										
25...	9827	9827	1060	420	8.4	13.0	12.0	0	5	11.9
MAR										
24...	9827	9827	223	453	8.3	9.0	13.0	5	4	10.6
APR										
21...	9827	9827	395	474	8.3	16.0	12.0	10	6	10.4
MAY										
26...	9827	9827	223	458	8.3	13.0	15.0	5	<25	8.7
JUN										
23...	9827	9827	600	449	8.2	20.0	20.0	10	10	8.3
JUL										
19...	9827	9827	600	427	8.3	28.0	24.0	10	8	9.4
AUG										
16...	9827	9827	168	448	8.3	27.0	22.0	5	7	9.3
SEP										
20...	9827	9827	300	482	8.2	28.0	21.0	5	8	8.8

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
07...	101	1.0	220	28	38	--	--	--	--	--
NOV										
04...	93	.7	--	220	180	210	0	45	110	23
DEC										
15...	92	.6	320	210	240	--	--	--	--	--
JAN										
28...	105	1.2	30	8	--	220	0	26	64	37
FEB										
25...	110	1.5	<13	4	--	--	--	--	--	--
MAR										
24...	100	1.1	40	4	--	--	--	--	--	--
APR										
21...	96	1.4	100	70	--	240	2	50	120	28
MAY										
26...	85	1.2	350	30	--	--	--	--	--	--
JUN										
23...	90	.9	1100	330	--	--	--	--	--	--
JUL										
19...	111	1.0	10	20	65	220	7	41	100	28
AUG										
16...	106	1.8	220	45	35	--	--	--	--	--
SEP										
20...	98	1.4	300	5	15	--	--	--	--	--

07069266 SPRING RIVER NEAR HARDY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 07...	--	--	--	--	--	--	3.0	5.5	218	11
NOV 04...	2.2	1.3	280	0	230	3.6	--	3.5	235	9
DEC 15...	--	--	--	--	--	--	2.0	4.0	231	15
JAN 28...	1.5	1.0	280	0	230	2.2	1.0	4.0	242	3
FEB 25...	--	--	--	--	--	--	<1.0	4.0	262	13
MAR 24...	--	--	--	--	--	--	4.0	3.5	270	10
APR 21...	1.7	1.6	290	0	238	2.3	1.0	3.0	261	9
MAY 26...	--	--	--	--	--	--	<1.0	3.5	227	38
JUN 23...	--	--	--	--	--	--	1.0	3.0	250	23
JUL 19...	3.1	1.3	260	0	213	2.1	1.0	3.0	236	11
AUG 16...	--	--	--	--	--	--	<1.0	3.0	245	15
SEP 20...	--	--	--	--	--	--	1.0	3.5	248	16

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 07...	229	.35	<.01	--	--	--	--	--	--	--
NOV 04...	244	.84	.02	<3	<10	0	<10	150	<10	0
DEC 15...	246	.87	.04	--	--	--	--	--	--	--
JAN 28...	245	.83	<.01	<3	<10	<3	<10	32	<10	<27
FEB 25...	275	.40	<.01	--	--	--	--	--	--	--
MAR 24...	280	.53	<.01	--	--	--	--	--	--	--
APR 21...	270	.72	<.01	<3	<10	<3	<10	130	<10	48
MAY 26...	265	.44	.01	--	--	--	--	--	--	--
JUN 23...	273	--	.02	--	--	--	--	--	--	--
JUL 19...	247	.75	<.01	<3	<10	<3	<10	310	<10	<27
AUG 16...	260	.58	<.01	--	--	--	--	--	--	--
SEP 20...	264	.59	<.01	--	--	--	--	--	--	--

07069266 SPRING RIVER NEAR HARDY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
07...	--	--	--	--	--	--	--	--	--
NOV									
04...	<10	--	--	--	--	--	--	--	--
DEC									
15...	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
28...	<10	--	--	--	--	--	--	--	--
FEB									
25...	--	--	--	--	--	--	--	--	--
MAR									
24...	--	--	--	--	--	--	--	--	--
APR									
21...	<10	--	--	--	--	--	--	--	--
MAY									
26...	--	--	--	--	--	--	--	--	--
JUN									
23...	--	--	--	--	--	--	--	--	--
JUL									
19...	<10	--	--	--	--	--	--	--	--
AUG									
16...	--	--	--	--	--	--	--	--	--
SEP									
20...	--	--	--	--	--	--	--	--	--

07069295 SOUTH FORK SPRING RIVER AT SADDLE, AR

LOCATION.--Lat 36°21'00", long 91°38'00", in NW¼NW¼ sec.33, T.20 N., R.6 W., Fulton County, at bridge on State Highway 289, 0.2 mi (0.3 km) southeast of Saddle.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
07...	9827	9827	--	341	8.1	24.0	18.0	10	6	9.2
NOV										
04...	9827	9827	380	349	8.4	20.0	17.0	10	6	9.4
DEC										
15...	9827	9827	950	311	8.1	1.0	10.0	10	8	10.4
JAN										
28...	9827	9827	760	366	8.3	11.0	5.0	10	2	13.8
FEB										
25...	9827	9827	880	362	8.5	15.0	12.0	5	5	12.2
MAR										
24...	9827	9827	760	386	8.3	9.0	12.0	5	5	9.8
APR										
21...	9827	9827	154	436	8.3	21.0	17.0	5	6	9.3
MAY										
26...	9827	9827	70	415	8.2	12.0	16.0	5	<25	7.9
JUN										
23...	9827	9827	154	379	8.1	20.0	21.0	40	40	6.9
JUL										
19...	9827	9827	54	426	8.2	23.0	27.0	10	8	8.0
AUG										
16...	9827	9827	154	392	8.3	28.0	26.0	10	10	8.5
SEP										
20...	9827	9827	40	470	8.2	25.0	23.0	10	35	9.1

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
07...	97	.7	280	60	33	--	--	--	--	--
NOV										
04...	97	.8	60	130	170	200	0	42	110	23
DEC										
15...	92	2.0	3300	2000	720	--	--	--	--	--
JAN										
28...	108	2.4	<13	5	--	190	0	24	60	32
FEB										
25...	113	.9	13	10	--	--	--	--	--	--
MAR										
24...	91	.8	63	15	--	--	--	--	--	--
APR										
21...	96	1.4	140	120	--	220	7	44	110	28
MAY										
26...	79	>7.9	250	160	--	--	--	--	--	--
JUN										
23...	77	2.1	--	--	--	--	--	--	--	--
JUL										
19...	99	.5	--	45	20	220	7	42	100	29
AUG										
16...	104	2.1	--	180	330	--	--	--	--	--
SEP										
20...	105	.9	320	220	50	--	--	--	--	--

07069295 SOUTH FORK SPRING RIVER AT SADDLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 07...	--	--	--	--	--	--	3.0	4.5	222	7
NOV 04...	1.7	1.4	260	0	213	1.7	--	4.0	226	9
DEC 15...	--	--	--	--	--	--	4.0	4.0	202	9
JAN 28...	1.0	.9	240	0	197	1.9	2.0	5.0	211	7
FEB 25...	--	--	--	--	--	--	1.0	4.5	227	1
MAR 24...	--	--	--	--	--	--	3.0	4.0	237	14
APR 21...	2.1	1.7	260	0	213	2.1	1.0	3.0	226	22
MAY 26...	--	--	--	--	--	--	<1.0	3.5	211	25
JUN 23...	--	--	--	--	--	--	4.0	3.5	219	58
JUL 19...	3.4	1.2	260	0	213	2.6	1.0	4.5	238	21
AUG 16...	--	--	--	--	--	--	1.0	4.0	219	23
SEP 20...	--	--	--	--	--	--	2.0	4.5	247	45

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 07...	229	.24	.01	--	--	--	--	--	--	--
NOV 04...	235	.22	.03	<3	<10	0	<10	180	<10	16
DEC 15...	211	.74	.04	--	--	--	--	--	--	--
JAN 28...	218	.35	<.01	<3	<10	<3	<10	81	20	120
FEB 25...	228	.13	<.01	--	--	--	--	--	--	--
MAR 24...	251	.23	<.01	--	--	--	--	--	--	--
APR 21...	248	.33	<.01	<3	<10	<3	10	140	10	42
MAY 26...	236	.12	.01	--	--	--	--	--	--	--
JUN 23...	277	--	.23	--	--	--	--	--	--	--
JUL 19...	259	.11	.01	<3	<10	<3	<10	370	<10	60
AUG 16...	242	<.10	<.01	--	--	--	--	--	--	--
SEP 20...	292	.23	.06	--	--	--	--	--	--	--

07069295 SOUTH FORK SPRING RIVER AT SADDLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
07...	--	--	--	--	--	--	--	--	--
NOV									
04...	<10	--	--	--	--	--	--	--	--
DEC									
15...	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
28...	<10	--	--	--	--	--	--	--	--
FEB									
25...	--	--	--	--	--	--	--	--	--
MAR									
24...	--	--	--	--	--	--	--	--	--
APR									
21...	<10	--	--	--	--	--	--	--	--
MAY									
26...	--	--	--	--	--	--	--	--	--
JUN									
23...	--	--	--	--	--	--	--	--	--
JUL									
19...	20	--	--	--	--	--	--	--	--
AUG									
16...	--	--	--	--	--	--	--	--	--
SEP									
20...	--	--	--	--	--	--	--	--	--

07069370 SPRING RIVER AT RAVENDEN, AR

LOCATION.--Lat 36°13'30", long 91°15'03", in SE¼NW¼ sec.12, T.18 N., R.3 W., Lawrence County, at bridge on county road, 400 ft (122 m) upstream from Starling Creek, and 0.5 mi (0.8 km) south of Ravenden.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)
OCT 07...	9827	9827	680	341	8.2	24.0	18.0	5	7	9.8	103
NOV 04...	9827	9827	948	352	8.0	20.0	16.0	10	8	9.0	90
DEC 15...	9827	9827	1240	342	8.2	3.0	11.0	5	9	9.8	88
JAN 28...	9827	9827	1300	400	8.3	10.0	7.0	5	3	12.5	102
FEB 25...	9827	9827	1120	420	8.3	12.0	11.0	0	4	11.6	105
MAR 24...	9827	9827	976	448	8.3	10.0	13.0	5	5	10.3	97
APR 21...	9827	9827	967	481	8.3	19.0	17.0	5	8	9.1	94
MAY 26...	9827	9827	561	454	8.3	13.0	18.0	5	<25	8.3	87
JUN 23...	9827	9827	611	452	8.3	20.0	22.0	5	8	7.7	88
JUL 19...	9827	9827	596	442	8.3	26.0	27.0	10	7	9.0	111
AUG 16...	9827	9827	520	442	8.3	29.0	26.0	10	10	7.9	96
SEP 20...	9827	9827	375	482	8.3	28.0	23.0	5	7	8.6	99

DATE	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)
OCT 07...	1.2	450	15	9	--	--	--	--	--	--
NOV 04...	1.1	800	380	680	210	0	45	110	23	2.2
DEC 15...	1.8	510	110	220	--	--	--	--	--	--
JAN 28...	2.0	20	<5	--	200	0	30	76	31	1.6
FEB 25...	2.6	<20	5	--	--	--	--	--	--	--
MAR 24...	.8	25	4	--	--	--	--	--	--	--
APR 21...	1.8	180	90	--	240	2	51	130	28	1.8
MAY 26...	1.9	320	47	--	--	--	--	--	--	--
JUN 23...	4.1	300	27	--	--	--	--	--	--	--
JUL 19...	1.4	80	10	35	220	0	39	98	29	3.2
AUG 16...	1.8	520	<5	<5	--	--	--	--	--	--
SEP 20...	1.5	140	20	5	--	--	--	--	--	--

07069370 SPRING RIVER AT RAVENDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)
OCT										
07...	--	--	--	--	--	3.0	4.0	233	8	241
NOV										
04...	1.3	270	0	221	4.3	--	5.5	232	16	248
DEC										
15...	--	--	--	--	--	3.0	4.0	239	18	257
JAN										
28...	1.0	270	0	221	2.2	2.0	4.0	--	--	236
FEB										
25...	--	--	--	--	--	1.0	3.5	244	19	263
MAR										
24...	--	--	--	--	--	3.0	3.5	272	15	287
APR										
21...	1.6	290	0	238	2.3	1.0	3.5	258	15	273
MAY										
26...	--	--	--	--	--	<1.0	3.0	232	47	279
JUN										
23...	--	--	--	--	--	<1.0	3.0	266	16	282
JUL										
19...	1.2	270	0	221	2.2	1.0	2.5	244	12	256
AUG										
16...	--	--	--	--	--	<1.0	3.0	249	16	265
SEP										
20...	--	--	--	--	--	1.0	4.0	243	14	257

DATE	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT										
07...	.15	<.01	--	--	--	--	--	--	--	--
NOV										
04...	.61	.03	<3	<10	0	<10	200	<10	29	<10
DEC										
15...	.97	.02	--	--	--	--	--	--	--	--
JAN										
28...	.47	<.01	<3	<10	<3	<10	74	<10	39	<10
FEB										
25...	.22	<.01	--	--	--	--	--	--	--	--
MAR										
24...	.46	<.01	--	--	--	--	--	--	--	--
APR										
21...	.47	<.01	<3	<10	<3	<10	160	<10	47	<10
MAY										
26...	.28	.02	--	--	--	--	--	--	--	--
JUN										
23...	--	<.01	--	--	--	--	--	--	--	--
JUL										
19...	.43	.01	<3	<10	<3	<10	180	<10	<27	<10
AUG										
16...	.27	<.01	--	--	--	--	--	--	--	--
SEP										
20...	.37	<.01	--	--	--	--	--	--	--	--

07069500 SPRING RIVER AT IMBODEN, AR

LOCATION.--Lat 36°12'19", long 91°10'19", in SE¼NE¼ sec.15, T.18 N., R.2 W., Randolph County, near left bank on downstream side of bridge on U.S. Highway 62 at Imboden, 1.8 mi (2.9 km) upstream from Harding Creek, 3.9 mi (6.3 km) downstream from Janes Creek, 8.2 mi (13.2 km) upstream from Eleven Point River, and at mile 12.1 (19.5 km).

DRAINAGE AREA.--1,183 mi^2 (3,064 km^2).

PERIOD OF RECORD.--February 1936 to current year.

REVISED RECORDS.--WSP 1147: 1937-39, 1942-43, 1945. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 254.07 ft (77.441 m) above mean sea level. Prior to July 17, 1937, nonrecording gage at site 200 ft (61 m) downstream at present datum. July 17, 1937, to Feb. 8, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--40 years, 1,376 ft^3/s (39.0 m^3/s), 16.08 in/yr (408 mm/yr), 996,900 acre-ft/yr (1,230 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78,500 ft^3/s (2,220 m^3/s) Jan. 24, 1949, gage height, 28.42 ft (8.662 m), from rating curve extended above 45,000 ft^3/s (1,270 m^3/s); minimum daily, 215 ft^3/s (6.09 m^3/s) Aug. 1, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1915 reached a stage of about 32.1 ft (9.78 m), from information by Corps of Engineers, discharge, about 125,000 ft^3/s (3,540 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,300 ft^3/s (462 m^3/s) Dec. 6 at 1230 hours, gage height, 18.77 ft (5.721 m), no other peaks above base of 9,000 ft^3/s (255 m^3/s); minimum, 363 ft^3/s (10.3 m^3/s) Sept. 25, gage height, 2.57 ft (0.783 m).

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	824	617	1300	2340	1060	922	2020	926	2030	916	1880	421
2	799	613	1050	2010	1010	904	1740	893	2380	872	1590	420
3	767	691	947	1790	980	880	1580	850	1600	1080	904	420
4	748	931	868	1600	952	868	1460	814	1280	4260	744	419
5	733	786	863	1480	929	1570	1360	794	1160	1610	671	413
6	722	719	11900	1400	902	1290	1280	796	1050	1210	631	403
7	692	660	7460	1380	873	1150	1210	789	948	1040	600	398
8	669	640	2940	1290	833	1160	1150	743	868	945	575	400
9	651	623	2170	1210	814	1500	1090	720	806	876	553	410
10	690	633	1800	1170	805	1600	1050	708	761	825	537	396
11	644	614	1580	1150	793	1500	1020	711	722	781	527	391
12	631	592	1440	1110	765	1460	977	691	688	744	512	388
13	617	567	1320	1090	761	1350	950	692	657	714	506	385
14	606	556	1220	1040	748	1270	959	686	630	684	500	385
15	599	551	1240	992	739	1220	949	672	614	675	523	383
16	591	547	1460	981	733	1200	875	674	1190	679	525	381
17	585	541	1580	950	976	1130	869	668	842	630	605	378
18	576	531	1360	924	2230	1080	846	658	829	611	546	377
19	569	517	1250	909	1470	1050	862	640	835	597	500	377
20	565	540	1190	928	1230	1090	857	621	718	640	481	376
21	561	524	1120	887	2170	1180	954	608	660	823	471	373
22	558	515	1060	864	1570	1070	992	597	628	729	463	369
23	524	513	1070	886	1320	1100	1030	586	649	588	457	368
24	523	508	1000	880	1210	1000	982	575	3520	587	452	368
25	687	506	1030	1920	1130	972	1620	567	3210	565	450	366
26	624	532	1210	1890	1070	983	1350	570	1940	553	442	370
27	593	551	1210	1470	1010	2190	1150	680	1480	583	437	431
28	583	522	1210	1320	969	1300	1060	1780	1230	538	438	409
29	573	534	2860	1230	942	2770	996	1340	1100	710	438	389
30	599	1960	4190	1160	---	5500	947	1040	1000	888	422	386
31	622	---	3090	1110	---	2540	---	961	---	712	418	---
TOTAL	19725	19134	63988	39361	30994	44799	34185	24050	36025	27665	18798	11750
MEAN	636	638	2064	1270	1069	1445	1140	776	1201	892	606	392
MAX	824	1960	11900	2340	2230	5500	2020	1780	3520	4260	1880	431
MIN	523	506	863	864	733	868	846	567	614	538	418	366
CFSM	.54	.54	1.74	1.07	.90	1.22	.96	.66	1.02	.75	.51	.33
IN.	.62	.60	2.01	1.24	.97	1.41	1.07	.76	1.13	.87	.59	.37
AC-FT	39120	37950	126900	78070	61480	88860	67810	47700	71460	54870	37290	23310

CAL YR 1975 TOTAL 621104 MEAN 1702 MAX 29600 MIN 457 CFSM 1.44 IN 19.53 AC-FT 1232000
WTR YR 1976 TOTAL 370474 MEAN 1012 MAX 11900 MIN 366 CFSM .86 IN 11.65 AC-FT 734800

07072000 ELEVEN POINT RIVER NEAR RAVENDEN SPRINGS, AR

LOCATION.--Lat 36°20'48", long 91°06'48", in SE¼SE¼ sec.30, T.20 N., R.1 W., Randolph County, on left bank at downstream side of bridge on State Highway 90, 0.9 mi (1.4 km) downstream from Hincha Creek, 1.9 mi (3.1 km) upstream from Eassis Creek, 6.6 mi (10.6 km) northeast of Ravenden Springs, and at mile 21.2 (34.1 km).

DRAINAGE AREA.--1,134 mi^2 (2,937 km^2).

PERIOD OF RECORD.--October 1929 to September 1933, October 1935 to current year. Prior to October 1949, published as "near Elevenpoint." Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1930-33, 1936-38. WSP 977: 1933, 1937-39, 1942. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 291.98 ft (88.996 m) above mean sea level. Prior to Nov. 21, 1938, nonrecording gage at present site at datum 0.04 ft (0.012 m) higher. Nov. 21, to Dec. 11, 1938, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--45 years, 1,130 ft^3/s (32.0 m^3/s), 13.67 in/yr (347 mm/yr), 818,700 acre-ft/yr (1,010 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,600 ft^3/s (1,060 m^3/s) Nov. 17, 1958, gage height, 20.83 ft (6.349 m), from rating curve extended above 23,000 ft^3/s (651 m^3/s); minimum observed, 226 ft^3/s (6.40 m^3/s) Sept. 9, 1936, gage height, 2.13 ft (0.649 m), present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 6	1000	*9,530	270	13.52	4.121	July 4	1000	7,500	212	12.14	3.700
June 24	1015	9,040	256	13.21	4.026						

Minimum discharge, 504 ft^3/s (14.3 m^3/s) Sept. 25, 26, gage height, 2.97 ft (0.905 m).

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	1110	774	1150	1920	1010	911	1670	1010	1630	1040	727	563
2	1070	768	1050	1770	990	898	1520	992	1230	1010	752	563
3	1030	822	978	1650	973	884	1430	973	959	1770	716	562
4	1010	980	922	1520	954	873	1350	946	897	6510	694	561
5	986	979	949	1430	936	1120	1280	929	866	3810	684	555
6	970	922	7050	1380	918	1060	1220	934	846	2100	677	548
7	950	892	3720	1370	899	1010	1180	912	816	1680	672	545
8	938	868	2470	1300	891	1020	1140	887	783	1450	664	543
9	922	849	2040	1230	884	1130	1090	864	758	1290	656	545
10	905	844	1800	1200	880	1130	1060	857	748	1180	649	538
11	893	816	1640	1180	871	1110	1040	854	740	1100	645	534
12	886	797	1520	1150	854	1110	1010	840	739	1040	636	531
13	868	779	1420	1130	850	1070	994	838	731	994	632	530
14	853	767	1340	1110	840	1030	995	826	721	954	636	526
15	844	758	1370	1070	832	1020	971	823	722	920	658	525
16	836	752	1640	1060	829	1040	950	819	947	888	644	521
17	826	745	1650	1040	974	999	934	812	761	861	632	520
18	817	737	1530	1010	1450	976	923	803	768	838	622	520
19	807	730	1430	1000	1070	967	934	780	861	818	614	550
20	800	730	1370	999	999	996	924	768	825	816	609	574
21	795	726	1310	973	1550	990	974	758	770	802	604	521
22	790	717	1250	958	1200	954	974	752	743	782	601	515
23	784	709	1210	950	1090	935	990	746	756	772	597	511
24	793	702	1170	947	1040	916	1020	739	6990	771	601	510
25	853	700	1170	1450	1010	919	1290	726	4640	747	597	509
26	793	716	1220	1330	987	974	1190	727	2210	736	591	512
27	775	721	1190	1170	958	1710	1130	748	1670	729	586	714
28	771	697	1180	1110	936	1330	1090	1100	1410	719	581	532
29	768	700	1870	1080	923	1960	1050	880	1250	756	577	516
30	786	1290	2080	1060	---	2880	1030	812	1130	753	567	511
31	780	---	2080	1030	---	1910	---	1180	---	722	563	---
TOTAL	27009	23987	52769	37577	28598	35832	33353	26635	38917	39358	19684	16205
MEAN	871	800	1702	1212	986	1156	1112	859	1297	1270	635	540
MAX	1110	1290	7050	1920	1550	2880	1670	1180	6990	6510	752	714
MIN	768	697	922	947	829	873	923	726	721	719	563	509
CFSM	.77	.71	1.50	1.07	.87	1.02	.98	.76	1.14	1.12	.56	.48
IN.	.89	.79	1.73	1.23	.94	1.18	1.09	.87	1.28	1.29	.65	.53
AC-FT	53570	47580	104700	74530	56720	71070	66160	52830	77190	78070	39040	32140

CAL YR 1975 TOTAL 585914 MEAN 1605 MAX 15600 MIN 677 CFSM 1.42 IN 19.22 AC-FT 1162000
WTR YR 1976 TOTAL 379924 MEAN 1038 MAX 7050 MIN 509 CFSM .92 IN 12.46 AC-FT 753600

07072100 ELEVEN POINT RIVER NEAR POCAHONTAS, AR

LOCATION.--Lat 36°14'13", long 91°05'05", in NW¼SE¼ sec.33, T.19 N., R.1 W., Randolph County, at bridge on U.S. Highway 62, 6.0 mi (10.0 km) west of Pocahontas.

DRAINAGE AREA.--1,192 mi^2 (3,087 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
07...	9827	9827	998	268	8.0	23.0	17.0	5	6	9.7
NOV										
04...	9827	9827	1030	284	7.9	18.0	16.0	20	10	8.3
DEC										
15...	9827	9827	1440	276	8.0	6.0	13.0	10	9	9.6
JAN										
28...	9827	9827	1170	339	8.2	4.0	6.0	10	3	11.8
FEB										
25...	9827	9827	1060	377	8.2	12.0	11.0	5	5	10.7
MAR										
24...	9827	9827	962	373	8.2	12.0	12.0	5	4	10.3
APR										
21...	9827	9827	1020	392	8.2	15.0	16.0	5	6	9.5
MAY										
26...	9827	9827	763	368	8.2	14.0	16.0	5	<25	8.8
JUN										
23...	9827	9827	794	373	8.2	19.0	20.0	5	6	8.8
JUL										
19...	9827	9827	859	381	8.1	22.0	27.0	10	5	8.4
AUG										
16...	9827	9827	676	386	8.2	30.0	23.0	5	40	8.3
SEP										
20...	9827	9827	603	420	8.2	29.0	21.0	5	7	8.6

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
07...	100	1.1	13	60	32	--	--	--	--	--
NOV										
04...	83	3.2	50	1200	130	160	0	36	90	17
DEC										
15...	89	1.5	410	420	320	--	--	--	--	--
JAN										
28...	94	1.2	100	7	--	180	0	34	84	23
FEB										
25...	96	1.8	50	73	--	--	--	--	--	--
MAR										
24...	95	.7	50	7	--	--	--	--	--	--
APR										
21...	95	1.4	240	220	--	200	3	41	100	23
MAY										
26...	88	1.6	120	7	--	--	--	--	--	--
JUN										
23...	96	1.5	340	60	--	--	--	--	--	--
JUL										
19...	104	1.3	180	20	25	180	0	37	92	22
AUG										
16...	95	1.2	360	<5	80	--	--	--	--	--
SEP										
20...	96	1.7	740	320	520	--	--	--	--	--

07072100 ELEVEN POINT RIVER NEAR POCAHONTAS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 07...	--	--	--	--	--	--	3.0	5.0	180	13
NOV 04...	1.7	1.3	210	0	172	4.2	--	3.5	187	14
DEC 15...	--	--	--	--	--	--	3.0	3.0	186	22
JAN 28...	1.3	.8	230	0	189	2.3	1.0	4.0	201	21
FEB 25...	--	--	--	--	--	--	1.0	4.0	219	32
MAR 24...	--	--	--	--	--	--	5.0	3.5	228	20
APR 21...	1.6	3.7	240	0	197	2.4	<1.0	2.5	204	21
MAY 26...	--	--	--	--	--	--	<1.0	3.0	187	30
JUN 23...	--	--	--	--	--	--	<1.0	3.0	213	18
JUL 19...	2.9	1.0	220	0	180	2.8	1.0	2.0	200	19
AUG 16...	--	--	--	--	--	--	<1.0	2.5	215	4
SEP 20...	--	--	--	--	--	--	1.0	3.5	212	10

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 07...	193	.47	<.01	--	<10	0	<10	120	<10	34
NOV 04...	201	.60	.04	<3	<10	0	<10	330	<10	24
DEC 15...	208	.64	.02	--	--	--	--	--	--	--
JAN 28...	222	.59	<.01	<3	<10	<3	<10	97	<10	<27
FEB 25...	251	.42	<.01	--	--	--	--	--	--	--
MAR 24...	248	.43	<.01	--	--	--	--	--	--	--
APR 21...	225	.88	<.01	<3	<10	<3	<10	140	<10	37
MAY 26...	217	.46	<.01	--	--	--	--	--	--	--
JUN 23...	231	--	.01	--	--	--	--	--	--	--
JUL 19...	219	.39	<.01	<3	<10	<3	<10	58	<10	<27
AUG 16...	219	.39	<.01	--	--	--	--	--	--	--
SEP 20...	222	.48	<.01	--	--	--	--	--	--	--

07072100 ELEVEN POINT RIVER NEAR POCAHONTAS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
07...	<10	--	--	--	--	--	--	--	--
NOV									
04...	<10	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
15...	--	--	--	--	--	--	--	--	--
JAN									
28...	<10	--	--	--	--	--	--	--	--
FEB									
25...	--	--	--	--	--	--	--	--	--
MAR									
24...	--	--	--	--	--	--	--	--	--
APR									
21...	<10	--	--	--	--	--	--	--	--
MAY									
26...	--	--	--	--	--	--	--	--	--
JUN									
23...	--	--	--	--	--	--	--	--	--
JUL									
19...	<10	--	--	--	--	--	--	--	--
AUG									
16...	--	--	--	--	--	--	--	--	--
SEP									
20...	--	--	--	--	--	--	--	--	--

07072500 BLACK RIVER AT BLACK ROCK, AR

LOCATION.--Lat 36°06'15", long 91°05'50", in NW¼ sec.21, T.17 N., R.1 W., Lawrence County, on right bank 900 ft (274 m) downstream from St. Louis-San Francisco Railway bridge at Black Rock, 3.7 mi (6.0 km) downstream from Spring River, and at mile 69.3 (109.8 km).

DRAINAGE AREA.--7,369 mi² (19,090 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1929 to September 1931, October 1939 to current year. Gage-height records collected in same vicinity since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: 1930-31. WRD Ark. 1973: Drainage area.

GAGE.--Nonrecording gage read twice daily, more often during rises. Datum of gage is 229.56 ft (69.970 m) above mean sea level. Prior to Aug. 1, 1946, at site 900 ft (274 m) upstream at present datum.

REMARKS.--Records good. Flow slightly regulated by Clearwater Lake (Missouri), 189 mi (304 km) upstream, since June 3, 1948, capacity, 413,700 acre-ft (510 hm³).

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--39 years, 8,446 ft³/s (239 m³/s), 6,119,000 acre-ft/yr (7,540 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105,000 ft³/s (2,970 m³/s) Apr. 24, 1973, gage height, 29.24 ft (8.912 m); minimum daily, 1,730 ft³/s (49.1 m³/s) in September, October, and November 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 21, 1915, reached a stage of 31.9 ft (9.72 m), from records of National Weather Service, discharge, 160,000 ft³/s (4,530 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,200 ft³/s (827 m³/s) Dec. 6; maximum gage height, 19.43 ft (5.922 m) Dec. 7; minimum discharge observed, 2,710 ft³/s (76.6 m³/s) Sept. 11-19, 22-27.

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	5940	3550	8800	14400	7590	7950	13600	7040	9910	10100	5660	2890
2	5700	3550	8330	14100	7270	7730	12800	6760	11900	9580	6330	2860
3	5460	3760	7620	13600	7060	7470	12000	6560	11100	8990	5180	2830
4	5290	4960	7220	12900	6860	7290	11300	6380	10300	21200	4570	2860
5	5180	5440	7010	12100	6670	9860	10700	6250	9300	19800	4210	2890
6	5080	5280	22900	11400	6480	9730	10200	6160	8410	18300	4130	2860
7	4900	5160	24100	10900	6300	8960	9930	6130	7430	18400	4000	2800
8	4750	5030	19000	10500	6090	8360	9550	6000	6810	17400	3790	2770
9	4660	4930	17900	9950	5820	8430	9070	5740	6340	16100	3560	2770
10	4570	4810	16400	9430	5600	9700	8630	5460	5890	14300	3500	2730
11	4440	4730	15200	9030	5410	9310	8380	5270	5530	13000	3470	2710
12	4290	4580	14100	8750	5220	8920	8080	5140	5230	11700	3430	2710
13	4190	4380	13300	8500	5100	8550	7830	5010	4900	10400	3350	2710
14	4130	4190	12500	8320	5090	8230	7650	4980	4660	9470	3310	2710
15	4050	4130	12200	8070	5040	7960	7500	4900	4490	8490	3370	2710
16	4000	4000	12200	7730	5000	7740	7340	4850	5400	7750	3390	2710
17	3910	3950	12500	7500	6380	7490	7090	4810	5740	7370	3460	2710
18	3700	3950	12100	7280	12400	7240	6840	4810	5340	6970	3650	2710
19	3630	3930	11700	6960	11800	7090	6610	4880	5300	6520	3750	2710
20	3630	3890	11100	6720	10500	7150	6400	4950	5540	6200	3550	2770
21	3630	3870	10500	6550	11500	7630	6150	4830	5650	6020	3290	2800
22	3630	3820	9930	6370	11800	7540	6250	4710	5550	5820	3170	2730
23	3630	3790	9220	6240	10800	7360	6700	4620	5550	5560	3110	2710
24	3650	3760	8890	6100	9970	7120	7100	4460	10300	5330	3100	2710
25	3890	3720	8620	7590	9510	6850	7680	4330	19900	5140	3100	2710
26	3990	3710	9400	10300	9050	6810	8400	4240	15500	4970	3100	2710
27	3840	3710	9900	9670	8750	8380	8390	4410	14200	4820	3070	2750
28	3750	3770	9900	8990	8470	9660	8140	7610	12900	4740	3030	3000
29	3670	3920	11700	8400	8230	12700	7810	8580	11800	4710	3030	2980
30	3590	6240	15900	8020	---	17000	7420	7540	11000	4930	3030	2860
31	3550	---	15200	7820	---	14800	---	6920	---	5400	2930	---
TOTAL	132320	128510	385340	284190	225760	271010	255540	174330	251870	299480	113620	83380
MEAN	4268	4284	12430	9167	7785	8742	8518	5624	8396	9661	3665	2779
MAX	5940	6240	24100	14400	12400	17000	13600	8580	19900	21200	6330	3000
MIN	3550	3550	7010	6100	5000	6810	6150	4240	4490	4710	2930	2710
AC-FT	262500	254900	764300	563700	447800	537500	506900	345800	499600	594000	225400	165400

CAL YR 1975 TOTAL 4269150 MEAN 11700 MAX 92000 MIN 3550 AC-FT 8468000
WTR YR 1976 TOTAL 2605350 MEAN 7118 MAX 24100 MIN 2710 AC-FT 5168000

07072500 BLACK RIVER AT BLACK ROCK, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946, 1953, October 1967 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1945 to September 1946, October 1952 to September 1953.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) (00335)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
OCT										
08...	1028	1028	4729	327	7.2	18.5	8.9	98	--	1.9
NOV										
20...	1028	1028	3886	350	8.0	10.0	10.0	98	4	1.6
DEC										
16...	1028	1028	12220	234	7.7	10.5	8.5	97	13	1.8
JAN										
20...	1028	1028	6743	297	7.8	5.0	10.2	82	2	2.1
FEB										
18...	1028	1028	12100	257	7.8	13.0	8.6	84	16	3.3
MAR										
25...	1028	1028	6860	321	7.9	14.0	--	--	10	1.2
APR										
28...	1028	1028	8160	297	7.6	15.5	8.6	90	5	1.5
MAY										
19...	1028	1028	4853	337	8.3	18.0	8.9	97	--	--
JUN										
23...	1028	1028	5470	264	8.1	21.5	7.6	88	--	1.0
JUL										
20...	1028	1028	7170	273	7.9	25.0	7.0	86	8	1.8
AUG										
19...	1028	1028	3782	342	8.0	23.0	7.8	93	--	1.4
SEP										
15...	1028	1028	2710	354	8.3	22.5	7.4	87	--	1.4

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT								
08...	--	--	.20	.24	.44	1.9	.04	--
NOV								
20...	440	100	.11	.24	.35	1.6	.02	--
DEC								
16...	270	520	.28	.80	1.1	4.8	.11	--
JAN								
20...	B180	B27	.29	.29	.58	2.6	.01	--
FEB								
18...	B5900	B4100	.32	1.2	1.5	6.7	.18	--
MAR								
25...	330	B35	.21	.38	.59	2.6	.07	--
APR								
28...	310	510	.27	.40	.67	3.0	.05	9.1
MAY								
19...	240	B44	.22	.15	.37	1.6	.07	--
JUN								
23...	770	220	.26	.35	.61	2.7	.07	2.7
JUL								
20...	520	340	.48	.38	.86	3.8	.09	--
AUG								
19...	900	100	.27	.26	.53	2.3	.05	--
SEP								
15...	B300	--	.20	.15	.35	1.6	.01	--

07073000 STRAWBERRY RIVER NEAR EVENING SHADE, AR

LOCATION.--Lat 36°05'56", long 91°36'30", in NE¼NE¼ sec.27, T.17 N., R.6 W., Sharp County, near left bank on downstream side of bridge on U.S. Highway 167, 2.0 mi (3.2 km) north of Evening Shade, 6.3 mi (10.1 km) upstream from Piney Fork, and at mile 55.9 (89.9 km).

DRAINAGE AREA.--217 mi^2 (562 km^2).

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

REVISED RECORDS.--WRD Ark. 1973: Drainage area. WRD Ark. 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 406.56 ft (123.919 m) above mean sea level. Prior to July 23, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--37 years, 211 ft^3/s (5.98 m^3/s), 12.74 in/yr (324 mm/yr), 152,900 acre-ft/yr (189 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,000 ft^3/s (878 m^3/s) Jan. 24, 1949, gage height, 26.59 ft (8.105 m), from rating curve extended above 16,000 ft^3/s (453 m^3/s); minimum, 2.8 ft^3/s (0.079 m^3/s) Sept. 23, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,470 ft^3/s (98.3 m^3/s) Dec. 6, gage height, 13.54 ft (4.127 m), no peaks above base of 4,000 ft^3/s (110 m^3/s); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 23, 24, gage height, 3.33 ft (1.015 m).

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	54	45	198	410	126	104	342	80	651	85	666	20
2	52	40	124	330	116	96	279	74	272	75	259	20
3	51	43	97	284	108	88	246	67	222	90	99	19
4	47	51	82	247	101	86	221	61	172	303	60	19
5	44	93	79	216	93	191	201	57	141	170	47	18
6	44	69	2000	206	87	189	188	60	120	117	40	17
7	43	60	673	201	81	143	176	58	109	84	35	17
8	45	54	354	189	77	144	164	55	87	69	32	17
9	44	50	273	177	74	241	152	51	74	60	30	17
10	39	49	235	162	71	299	141	48	66	57	28	16
11	38	51	215	155	68	234	134	47	60	55	27	15
12	37	53	194	154	65	209	125	47	55	49	25	15
13	36	47	177	117	63	188	97	47	52	46	22	14
14	35	42	162	107	61	167	90	46	47	42	24	14
15	35	40	161	96	60	155	85	49	46	40	38	14
16	34	39	234	89	58	144	79	54	680	54	52	13
17	34	38	189	85	94	152	74	59	106	43	58	13
18	34	36	164	80	536	147	70	51	150	37	34	13
19	33	35	144	79	290	141	87	46	97	35	27	13
20	33	39	135	78	230	150	77	42	67	34	25	18
21	33	34	128	76	299	181	86	40	57	33	23	17
22	33	33	116	73	255	167	91	37	53	32	23	14
23	32	32	100	70	212	145	79	36	155	31	22	11
24	32	31	91	68	194	111	77	35	559	31	22	11
25	56	30	98	214	182	102	270	33	575	29	22	12
26	110	33	123	296	171	102	196	34	350	29	21	12
27	54	34	142	209	159	117	140	58	235	27	24	16
28	41	34	163	180	129	127	113	444	196	26	25	16
29	35	34	1290	164	113	584	96	243	133	27	21	14
30	43	67	1190	149	---	1490	86	159	104	28	20	14
31	58	---	600	137	---	505	---	127	---	33	19	---
TOTAL	1339	1336	9931	5098	4173	6899	4262	2345	5691	1871	1870	459
MEAN	43.2	44.5	320	164	144	223	142	75.6	190	60.4	60.3	15.3
MAX	110	93	2000	410	536	1490	342	444	680	303	666	20
MIN	32	30	79	68	58	86	70	33	46	26	19	11
CFSM	.20	.21	1.47	.76	.66	1.03	.65	.35	.88	.28	.28	.07
IN.	.23	.23	1.70	.87	.72	1.18	.73	.40	.98	.32	.32	.08
AC-FT	2660	2650	19700	10110	8280	13680	8450	4650	11290	3710	3710	910

CAL YR 1975	TOTAL	91783	MEAN 251	MAX 7460	MIN 18	CFSM 1.16	IN 15.73	AC-FT 182100				
WTR YR 1976	TOTAL	45274	MEAN 124	MAX 2000	MIN 11	CFSM .57	IN 7.76	AC-FT 89800				

07073500 PINEY FORK AT EVENING SHADE, AR

LOCATION.--Lat 36°04'50", long 91°36'39", in SE¼NE¼ sec.34, T.17 N., R.6 W., Sharp County, on right bank 20 ft (6 m) upstream from bridge on U.S. Highway 167, 0.8 mi (1.3 km) north of Evening Shade, and at mile 5.8 (9.3 km).

DRAINAGE AREA.--99.2 mi^2 (256.9 km^2).

PERIOD OF RECORD.--February 1939 to current year. Prior to October 1962, published as Piney Fork Strawberry River at Evening Shade.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 420.62 ft (128.205 m) above mean sea level. Prior to Oct. 5, 1945, nonrecording gage at present site and datum.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--37 years, 92.1 ft^3/s (2.61 m^3/s), 12.63 in/yr (321 mm/yr), 66,700 acre-ft/yr (82.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft^3/s (496 m^3/s) Jan. 24, 1949, gage height, 23.42 ft (7.138 m), from rating curve extended above 11,000 ft^3/s (312 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,760 ft^3/s (49.8 m^3/s) July 4, gage height, 8.05 ft (2.454 m), no peaks above base of 2,000 ft^3/s (57 m^3/s); minimum, 2.5 ft^3/s (0.071 m^3/s) Sept. 24, gage height, 3.12 ft (0.951 m).

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	31	16	26	162	65	65	149	38	82	56	23	5.9
2	30	16	25	144	60	62	127	36	113	49	28	6.9
3	28	19	21	140	56	57	115	33	68	87	17	6.6
4	27	23	20	129	53	58	101	33	54	726	14	7.1
5	26	22	22	101	51	199	92	32	51	165	13	6.6
6	25	18	434	85	48	132	85	33	47	132	12	6.0
7	24	17	148	89	44	97	80	32	41	88	12	5.6
8	24	16	106	81	43	109	74	29	37	73	11	5.9
9	23	14	77	106	42	166	68	28	34	62	10	7.3
10	22	16	63	68	40	151	63	27	31	54	9.9	6.4
11	21	15	54	66	39	140	59	27	29	48	9.6	4.9
12	22	14	49	62	36	139	54	26	27	44	9.2	4.5
13	22	13	44	59	35	126	52	27	25	41	9.1	4.9
14	21	12	41	55	34	102	51	26	23	38	9.2	5.4
15	20	13	44	51	33	86	48	27	23	35	13	5.5
16	22	12	51	50	32	82	45	44	302	48	11	4.1
17	21	12	44	47	67	76	43	33	90	47	10	4.3
18	19	12	40	44	264	72	41	28	148	34	9.3	4.6
19	19	11	37	43	143	68	44	25	71	31	8.7	4.6
20	19	12	37	45	137	72	45	23	44	28	8.7	5.4
21	19	11	34	42	169	74	50	22	37	26	8.1	3.9
22	18	11	32	40	142	63	43	21	33	25	7.7	3.7
23	18	11	31	39	136	60	38	21	54	23	7.7	5.0
24	18	11	30	39	118	56	43	20	182	22	16	4.5
25	19	10	34	89	94	54	83	19	182	20	39	4.0
26	18	12	42	141	83	56	51	19	172	19	8.4	2.9
27	17	14	43	100	78	138	45	33	124	17	10	4.6
28	18	13	47	83	74	87	42	99	82	16	16	4.2
29	18	12	491	79	70	336	40	55	72	18	7.0	4.1
30	17	20	363	75	---	332	39	42	76	18	6.7	4.5
31	16	---	214	70	---	184	---	37	---	16	6.8	---
TOTAL	662	428	2744	2424	2286	3499	1910	995	2354	2106	381.1	153.9
MEAN	21.4	14.3	88.5	78.2	78.8	113	63.7	32.1	78.5	67.9	12.3	5.13
MAX	31	23	491	162	264	336	149	99	302	726	39	7.3
MIN	16	10	20	39	32	54	38	19	23	16	6.7	2.9
CFSM	.22	.14	.89	.79	.79	1.14	.64	.32	.79	.68	.12	.05
IN.	.25	.16	1.03	.91	.86	1.31	.72	.37	.88	.79	.14	.06
AC-FT	1310	849	5440	4810	4530	6940	3790	1970	4670	4180	756	305

CAL YR 1975 TOTAL 46233.8 MEAN 127 MAX 4990 MIN 6.5 CFSM 1.28 IN 17.34 AC-FT 91700
WTR YR 1976 TOTAL 19943.0 MEAN 54.5 MAX 726 MIN 2.9 CFSM .55 IN 7.48 AC-FT 39560

07074000 STRAWBERRY RIVER NEAR POUGHKEEPSIE, AR

LOCATION.--Lat 36°06'37", long 91°26'59", in SE¼NW¼ sec.19, T.17 N., R.4 W., Sharp County, on right bank on downstream side of bridge on State Highway 58, 0.5 mi (0.8 km) downstream from Hurricane Creek, 2.5 mi (4.0 km) northeast of Poughkeepsie, and at mile 35.9 (57.8 km).

DRAINAGE AREA.--473 mi^2 (1,225 km^2).

PERIOD OF RECORD.--February 1936 to current year.

REVISED RECORDS.--WSP 877: 1938. WSP 1211: 1938-39. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 298.07 ft (90.852 m) above mean sea level (Corps of Engineers bench mark). Prior to Dec. 10, 1938, nonrecording gage at present site and datum.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--40 years, 516 ft^3/s (14.6 m^3/s), 14.72 in/yr (374 mm/yr), 373,800 acre-ft/yr (461 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,000 ft^3/s (1,470 m^3/s) Jan. 24, 1949, gage height, 29.30 ft (8.931 m); from rating curve extended above 27,000 ft^3/s (765 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 31 ft^3/s (0.88 m^3/s) Oct. 4, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,880 ft^3/s (138 m^3/s) Dec. 6, gage height, 10.56 ft (3.219 m), no peaks above base of 7,000 ft^3/s (200 m^3/s); minimum, 60 ft^3/s (1.70 m^3/s) Sept. 23, 24, gage height, 1.33 ft (0.405 m).

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	176	129	338	970	361	353	879	233	1450	304	630	82
2	169	119	289	794	335	335	728	223	903	270	627	81
3	161	145	239	693	314	315	634	209	575	286	233	80
4	158	162	214	595	298	323	569	200	438	1440	172	78
5	151	167	240	526	285	944	516	193	385	618	147	78
6	148	175	4100	488	269	633	478	195	331	432	132	77
7	145	156	1590	473	255	510	445	197	291	352	122	77
8	140	145	806	459	247	510	415	184	263	296	115	76
9	140	137	630	453	240	739	384	178	234	263	110	74
10	135	139	524	428	235	865	361	172	216	240	105	70
11	129	133	467	376	229	705	346	171	203	223	103	68
12	124	134	419	363	220	633	326	166	190	210	101	66
13	122	127	382	335	215	563	303	171	179	195	100	65
14	119	122	351	302	210	505	290	167	172	184	104	65
15	119	117	365	285	206	469	274	168	170	175	132	65
16	115	115	429	272	202	441	262	184	1360	218	119	63
17	115	114	413	258	492	416	249	187	413	215	137	63
18	111	111	358	248	1370	404	238	172	784	173	121	64
19	113	109	324	242	840	387	247	160	459	159	103	63
20	109	115	305	248	629	396	261	153	293	157	99	71
21	109	110	289	237	1200	461	274	147	238	160	97	69
22	108	106	274	230	840	439	262	143	212	146	97	66
23	107	105	262	226	658	390	244	139	399	140	95	62
24	109	103	247	221	580	353	318	136	1290	135	95	61
25	124	101	265	624	530	330	464	132	901	132	140	61
26	164	114	380	837	488	366	456	136	966	127	99	68
27	157	117	411	594	450	670	329	222	581	124	118	71
28	130	114	454	501	416	501	284	917	472	119	105	73
29	119	116	2230	460	375	1820	259	612	398	127	96	70
30	112	291	2500	421	---	2520	242	386	361	133	86	67
31	124	---	1340	390	---	1230	---	306	---	145	84	---
TOTAL	4062	3948	21435	13549	12989	19526	11337	6959	15127	7898	4624	2094
MEAN	131	132	691	437	448	630	378	224	504	255	149	69.8
MAX	176	291	4100	970	1370	2520	879	917	1450	1440	630	82
MIN	107	101	214	221	202	315	238	132	170	119	84	61
CFSM	.28	.28	1.46	.92	.95	1.33	.80	.47	1.07	.54	.32	.15
IN.	.32	.31	1.69	1.07	1.02	1.54	.89	.55	1.19	.62	.36	.16
AC-FT	8060	7830	42520	26870	25760	38730	22490	13800	30000	15670	9170	4150

CAL YR 1975 TOTAL 232385 MEAN 637 MAX 18400 MIN 79 CFSM 1.35 IN 18.28 AC-FT 460900
WTR YR 1976 TOTAL 123548 MEAN 338 MAX 4100 MIN 61 CFSM .71 IN 9.72 AC-FT 245100

07074100 STRAWBERRY RIVER NEAR SMITHVILLE, AR

LOCATION.--Lat 36°01'40", long 91°19'31", in NW¼SE¼ sec.17, T.16 N., R.3 W., Lawrence County, at bridge on State Highway 115, 2.0 mi (3.2 km) upstream from Reeds Creek, and Cooper Creek, and 3.9 mi (6.3 km) southwest of Smithville.

DRAINAGE AREA.--539 mi^2 (1,396 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
07...	9827	9827	330	8.2	25.0	18.0	5	7	9.8	103	1.4	13
NOV												
04...	9827	9827	--	--	--	--	--	--	--	--	--	50
DEC												
15...	9827	9827	312	8.0	2.0	11.0	20	25	9.8	88	1.2	4600
JAN												
28...	9827	9827	331	8.2	12.0	5.0	30	15	12.1	94	2.5	190
FEB												
25...	9827	9827	346	8.2	16.0	11.0	5	10	10.6	95	1.3	88
MAR												
24...	9827	9827	448	8.4	19.0	13.0	5	8	10.2	96	1.8	13
APR												
21...	9827	9827	443	8.3	17.0	17.0	5	15	9.1	94	1.5	380
MAY												
26...	9827	9827	429	8.3	15.0	18.0	10	<25	8.3	87	1.1	160
JUN												
23...	9827	9827	336	8.1	20.0	21.0	30	65	7.6	84	1.5	--
JUL												
19...	9827	9827	427	8.2	30.0	27.0	15	15	8.4	104	1.3	250
AUG												
16...	9827	9827	396	8.3	30.0	27.0	15	20	7.7	95	1.1	--
SEP												
20...	9827	9827	448	8.2	31.0	24.0	5	15	8.4	99	1.8	620

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
07...	250	16	--	--	--	--	--	--	--	--	--	--
NOV												
04...	88	160	--	--	--	--	--	--	--	--	--	--
DEC												
15...	3000	2100	--	--	--	--	--	--	--	--	--	--
JAN												
28...	95	--	170	0	26	66	25	2.2	1.8	220	0	180
FEB												
25...	75	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	30	--	--	--	--	--	--	--	--	--	--	--
APR												
21...	--	--	220	7	46	120	25	2.1	1.3	260	0	213
MAY												
26...	40	--	--	--	--	--	--	--	--	--	--	--
JUN												
23...	8000	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	84	30	220	7	43	110	27	3.8	1.3	260	0	213
AUG												
16...	<7	770	--	--	--	--	--	--	--	--	--	--
SEP												
20...	380	80	--	--	--	--	--	--	--	--	--	--

07074100 STRAWBERRY RIVER NEAR SMITHVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
07...	--	5.0	6.0	224	8	232	.19	<.01	--	--	--	--
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	--	7.0	4.5	215	33	248	.56	.05	--	--	--	--
JAN												
28...	2.2	7.0	5.0	215	31	246	.37	.04	<3	<10	<3	30
FEB												
25...	--	2.0	4.0	211	34	245	.20	<.01	--	--	--	--
MAR												
24...	--	27	4.5	280	28	308	.33	<.01	--	--	--	--
APR												
21...	2.1	3.0	3.5	237	38	275	.58	.04	<3	<10	<3	20
MAY												
26...	--	1.0	4.0	213	21	234	.18	.02	--	--	--	--
JUN												
23...	--	5.0	3.0	214	22	336	--	.12	--	--	--	--
JUL												
19...	2.6	1.0	4.0	236	30	266	.17	.02	<3	<10	<3	20
AUG												
16...	--	2.0	3.5	214	48	262	<.10	<.01	--	--	--	--
SEP												
20...	--	5.0	5.0	235	19	254	.26	.03	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN												
28...	330	40	230	30	--	--	--	--	--	--	--	--
FEB												
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
21...	170	80	50	<10	--	--	--	--	--	--	--	--
MAY												
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	590	20	130	130	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

07074490 BLACK RIVER AT JACKSONPORT, AR

LOCATION.--Lat 35°38'31", long 91°19'24", in SW¼SW¼ sec.28, T.12 N., R.3 W., Jackson County, at Point Ferry on State Highway 69, 600 ft (183 m) upstream from mouth, and 0.7 mi (1.1 km) west of Jacksonport.

DRAINAGE AREA.--8,557 mi^2 (22,163 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
22...	9827	9827	304	8.1	22.0	18.0	10	10	9.3	98	.9	250
NOV												
25...	9827	9827	288	8.0	3.0	8.0	15	7	11.0	92	.9	63
JAN												
28...	9827	9827	244	8.1	9.0	7.0	80	60	11.0	90	2.0	860
FEB												
25...	9827	9827	231	7.9	14.0	11.0	80	75	9.6	86	1.5	460
MAR												
24...	9827	9827	--	8.0	--	--	25	40	--	--	1.7	380
APR												
21...	9827	9827	350	8.1	15.0	17.0	5	20	8.4	87	1.5	960
MAY												
26...	9827	9827	350	8.2	15.0	18.0	10	80	8.8	94	2.2	350
JUN												
23...	9827	9827	289	8.0	20.0	23.0	40	90	7.5	86	1.0	3500
JUL												
19...	9827	9827	282	7.9	32.0	28.0	30	45	6.9	87	.9	120
AUG												
16...	9827	9827	380	8.1	31.0	28.0	20	330	8.3	105	2.2	--
SEP												
20...	9827	9827	403	8.4	33.0	25.0	5	15	9.6	114	3.1	340

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
22...	7	--	170	0	38	94	19	3.9	1.5	220	0	180
NOV												
25...	<1	10	--	--	--	--	--	--	--	--	--	--
JAN												
28...	390	--	120	0	27	68	13	2.2	2.0	160	0	131
FEB												
25...	320	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	330	--	--	--	--	--	--	--	--	--	--	--
APR												
21...	44	--	160	0	36	90	18	4.0	1.6	200	0	164
MAY												
26...	100	--	--	--	--	--	--	--	--	--	--	--
JUN												
23...	270	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	130	7	130	0	27	68	16	4.3	1.5	160	0	131
AUG												
16...	20	350	--	--	--	--	--	--	--	--	--	--
SEP												
20...	55	90	--	--	--	--	--	--	--	--	--	--

07074490 BLACK RIVER AT JACKSONPORT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT 22...	2.8	6.0	6.0	--	--	--	.33	.02	<3	<10	0	<10
NOV 25...	--	1.0	5.5	252	17	269	.37	.02	--	--	--	--
JAN 28...	2.0	6.0	5.0	184	64	248	.47	.06	<3	<10	<3	<10
FEB 25...	--	2.0	5.0	159	94	253	.33	.12	--	--	--	--
MAR 24...	--	12	5.0	204	130	334	.31	<.05	--	--	--	--
APR 21...	2.5	2.0	4.0	190	48	238	.23	.04	<3	<10	<3	<10
MAY 26...	--	1.0	5.5	184	342	526	<.10	.02	--	--	--	--
JUN 23...	--	6.0	4.0	191	130	321	--	.14	--	--	--	--
JUL 19...	3.2	5.0	5.0	166	74	240	.36	.03	<3	<10	<3	10
AUG 16...	--	4.0	7.0	200	1190	1390	<.10	.36	--	--	--	--
SEP 20...	--	3.0	7.5	197	36	233	<.10	.03	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT 22...	530	<10	66	20	--	--	--	--	--	--	--	--
NOV 25...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN 28...	2300	<10	100	<10	--	--	--	--	--	--	--	--
FEB 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 24...	--	--	--	--	--	--	--	--	--	--	--	--
APR 21...	1000	<10	160	<10	--	--	--	--	--	--	--	--
MAY 26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	1900	<10	180	<10	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--	--	--	--	--	--

07074500 WHITE RIVER AT NEWPORT, AR

LOCATION.--Lat 35°36'18", long 91°17'19", in NE¼NE¼ sec.10, T.11 N., R.3 W., Jackson County, on left bank 100 ft (30 m) below bridge on U.S. Highway 67 at Newport, 7.2 mi (11.6 km) downstream from Black River, and at mile 257.6 (414.5 km).

DRAINAGE AREA.--19,860 mi^2 (51,440 km^2).

PERIOD OF RECORD.--September 1927 to September 1931 (published as "near Newport"), October 1937 to current year. Gage-height records collected at present site since 1885 are contained in reports of National Weather Service.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 194.09 ft (59.159 m) above mean sea level. September 1927 to September 1931, nonrecording gage at site 2.8 mi (4.5 km) downstream at datum 2.30 ft (0.701 m) lower. Oct. 1, 1937, to Aug. 14, 1953, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation by Norfork Lake since 1943 (see station 07059500), by Clearwater Lake (Missouri) since 1948, capacity, 413,700 acre-ft (509 hm^3), by Bull Shoals Lake since July 24, 1951 (see station 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), and by Beaver Lake since Dec. 26, 1963 (see station 07049690).

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey. Gage-height records collected in cooperation with the National Weather Service.

AVERAGE DISCHARGE.--43 years, 22,880 ft^3/s (648 m^3/s), 16,580,000 acre-ft/yr (20,400 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 343,000 ft^3/s (9,610 m^3/s) Apr. 17, 1945; maximum gage height observed, 35.9 ft (10.94 m) Apr. 18, 1945; minimum discharge, 2,870 ft^3/s (81.3 m^3/s) Sept. 27-30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1927, that of Apr. 18, 1945. Flood of Apr. 16, 1927, reached a stage of 35.6 ft (10.85 m), from records of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,300 ft^3/s (1,110 m^3/s) June 25; maximum gage height, 16.70 ft (5.090 m) June 27; minimum discharge, 4,820 ft^3/s (137 m^3/s) Sept. 14, 15.

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	11900	11200	12300	30500	14900	14900	23900	22300	17300	25900	26200	7870
2	11400	11200	14000	27600	13700	13500	22800	22900	23900	23800	25900	7040
3	9640	8730	16500	24800	13800	13800	21300	21900	25900	21800	24700	7220
4	9750	7740	14400	24000	17100	13700	19700	20400	23600	28100	22600	7130
5	10900	10500	14200	24700	17500	15800	17900	20100	22000	28600	21800	8470
6	10100	10500	20100	23500	17600	18500	17200	20500	20400	30900	23400	10500
7	9000	12700	24600	23300	16600	16900	21200	17500	16700	31500	23600	8790
8	10400	11900	26300	25000	14300	16200	20600	18000	14500	29700	22900	7840
9	10700	10200	27700	28500	12000	21700	21500	17900	18400	29600	22400	10600
10	9550	8820	30800	25400	11100	27300	20400	14500	17100	30600	21100	11900
11	9360	7720	28500	19900	10900	27600	16000	12100	17100	30900	16900	8900
12	10300	10400	27400	16600	10500	26700	14800	16900	16600	28700	17700	6640
13	9550	11400	28300	15300	11400	25900	14100	16000	16900	26800	15700	5260
14	8390	14100	26300	18200	11400	23400	18000	18500	16700	22700	13500	4860
15	15700	16800	20500	19500	10600	18300	15300	17400	16700	20800	16600	7090
16	15300	13600	20300	18800	9390	16600	18200	13900	18000	21100	11000	10400
17	12600	9690	24400	21000	10000	20900	14700	11400	14500	24700	8870	12300
18	12300	7510	26400	16900	30900	21800	11800	10100	13800	24500	12400	10800
19	11500	8190	30200	15100	26100	17500	25200	13100	13200	24400	14000	11800
20	9020	9490	29400	15200	24100	16300	11100	12400	12000	24200	13100	12600
21	7680	9300	23300	15200	24100	15600	15200	12300	10600	24500	9160	9110
22	9520	14500	22000	13600	22100	14300	21500	14400	10100	24200	8950	8020
23	11700	13200	21400	12700	20500	13400	25300	17200	11500	24900	14900	6750
24	14200	10300	23200	13300	19800	13500	29600	11800	18700	24200	12400	5900
25	14500	8450	19500	17000	20400	13400	31200	10300	29200	24600	12900	8240
26	9990	12200	18500	22700	19000	12900	33400	10900	37400	24000	11000	10800
27	7780	12800	17500	23200	17500	12900	37300	13400	37000	23800	10600	7980
28	6660	12800	17900	24200	16800	15100	33700	20500	32400	23600	14700	6060
29	11000	10900	20100	20100	15900	18700	28000	27400	27900	25700	15900	12800
30	10700	10600	26100	16800	---	21800	27400	26700	25800	26100	11400	9370
31	10600	---	31300	15300	---	23200	---	19100	---	25800	8750	---
TOTAL	331690	327440	703400	627900	479990	562100	648300	521800	595900	800700	505030	263040
MEAN	10700	10910	22690	20250	16550	18130	21610	16830	19860	25830	16290	8768
MAX	15700	16800	31300	30500	30900	27600	37300	27400	37400	31500	26200	12800
MIN	6660	7510	12300	12700	9390	12900	11100	10100	10100	20800	8750	4860
AC-FT	657900	649500	1395000	1245000	952100	1115000	1286000	1035000	1182000	1588000	1002000	521700

CAL YR 1975 TOTAL 10710940 MEAN 29350 MAX 193000 MIN 6660 AC-FT 21250000
WTR YR 1976 TOTAL 6367290 MEAN 17400 MAX 37400 MIN 4860 AC-FT 12630000

07074850 WHITE RIVER NEAR AUGUSTA, AR

LOCATION.--Lat 35°17'20", long 91°23'40", in sec.27, T.8 N., R.4 W., Woodruff County, at bridge on U.S. Highway 64, 2.0 mi (3.2 km) west of Augusta.

DRAINAGE AREA.--20,464 mi² (53,002 km²).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 13...	9827	9827	259	8.2	20.0	22.0	10	9	9.8	111	1.4	--
NOV 12...	9827	9827	260	8.1	13.0	15.0	10	15	9.3	91	.9	40
DEC 15...	9827	9827	196	8.0	5.0	10.0	80	40	9.8	87	1.6	500
JAN 29...	9827	9827	213	8.1	1.0	5.0	60	60	11.4	89	1.8	760
FEB 26...	9827	9827	206	8.0	9.0	12.0	100	95	9.7	90	1.4	580
MAR 25...	9827	9827	299	8.0	12.0	13.0	25	40	9.1	86	1.2	410
APR 22...	9827	9827	325	8.2	13.0	17.0	10	20	9.1	94	1.3	240
MAY 26...	9827	9827	291	8.3	14.0	17.0	5	<25	9.7	100	1.1	40
JUN 24...	9827	9827	314	8.0	24.0	23.0	20	60	7.3	84	.8	590
JUL 20...	9827	9827	288	8.0	26.0	28.0	20	30	8.3	105	.8	170
AUG 17...	9827	9827	315	8.2	24.0	23.0	10	20	8.5	98	1.5	380
SEP 21...	9827	9827	319	8.3	15.0	21.0	10	30	9.1	101	1.9	640

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 13...	1100	<10	170	22	35	88	20	3.7	1.3	180	0	148
NOV 12...	13	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	50	190	--	--	--	--	--	--	--	--	--	--
JAN 29...	420	--	110	3	24	60	11	2.2	2.2	130	0	107
FEB 26...	310	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	350	--	--	--	--	--	--	--	--	--	--	--
APR 22...	110	--	150	2	34	86	16	3.5	1.6	180	0	148
MAY 26...	45	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	70	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	64	20	140	9	--	--	--	3.1	1.6	160	0	131
AUG 17...	<7	320	--	--	--	--	--	--	--	--	--	--
SEP 21...	210	230	--	--	--	--	--	--	--	--	--	--

07074850 WHITE RIVER NEAR AUGUSTA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
13...	1.8	5.0	8.0	196	18	214	.20	.01	<3	<10	0	<10
NOV												
12...	--	4.0	5.0	176	39	215	.47	.07	--	--	--	--
DEC												
15...	--	2.0	5.0	146	83	229	.33	.14	--	--	--	--
JAN												
29...	1.7	5.0	5.5	161	94	255	.56	.10	<3	<10	<3	20
FEB												
26...	--	3.0	5.0	168	103	271	.38	.16	--	--	--	--
MAR												
25...	--	13	5.5	188	73	261	.43	.08	--	--	--	--
APR												
22...	1.8	2.0	4.5	174	48	222	.35	.04	<3	<10	<3	20
MAY												
26...	--	1.0	5.0	161	21	182	.22	.07	--	--	--	--
JUN												
24...	--	6.0	5.5	183	106	289	--	.10	--	--	--	--
JUL												
20...	2.6	5.0	4.5	161	60	221	.42	.08	<3	<10	<3	<10
AUG												
17...	--	2.0	5.5	175	48	223	.14	.05	--	--	--	--
SEP												
21...	--	4.0	6.5	164	78	242	.24	.04	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
13...	280	<10	160	20	--	--	--	--	--	--	--	--
NOV												
12...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
29...	2100	20	160	40	--	--	--	--	--	--	--	--
FEB												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
22...	760	10	80	20	--	--	--	--	--	--	--	--
MAY												
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	1200	10	230	40	--	--	--	--	--	--	--	--
AUG												
17...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--

07074990 MIDDLE FORK LITTLE RED RIVER NEAR SHIRLEY, AR

LOCATION.--Lat 35°39'06", long 92°19'20", in NE¼ sec.25, T.12 N., R.13 W., Van Buren County, at bridge on State Highway 9, 0.2 mi (0.3 km) south of Shirley, and at mile 124.4 (200.2 km).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
20...	9827	9827	76	7.4	24.0	19.0	5	5	6.8	72	1.5	100
NOV												
18...	9827	9827	62	7.4	19.0	12.0	5	4	10.3	95	1.1	20
DEC												
16...	9827	9827	56	7.4	6.0	9.0	15	10	10.9	94	.8	40
JAN												
26...	9827	9827	80	7.3	3.0	6.0	20	4	12.3	98	1.6	90
FEB												
23...	9827	9827	70	7.5	15.0	11.0	25	10	11.7	105	1.2	<5
MAR												
15...	9827	9827	68	7.6	20.0	14.0	15	15	11.2	108	1.0	15
APR												
20...	9827	9827	84	8.2	22.0	18.0	5	8	9.4	99	1.5	640
MAY												
18...	9827	9827	81	7.6	25.0	18.0	35	15	10.2	107	1.1	380
JUN												
15...	9827	9827	116	7.7	28.0	24.0	10	<25	7.0	82	1.0	260
JUL												
20...	9827	9827	122	7.5	34.0	22.0	15	4	8.1	92	2.1	110
AUG												
17...	9827	9827	127	8.6	33.0	27.0	10	6	11.8	146	4.7	50
SEP												
21...	9827	9827	133	7.7	25.0	23.0	10	6	7.3	84	2.0	20

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
20...	15	<4	38	4	11	28	2.0	2.4	.9	41	0	34
NOV												
18...	<5	12	--	--	--	--	--	--	--	--	--	--
DEC												
16...	47	40	--	--	--	--	--	--	--	--	--	--
JAN												
26...	40	100	34	7	10	26	2.0	2.0	.1	33	0	27
FEB												
23...	44	24	--	--	--	--	--	--	--	--	--	--
MAR												
15...	8	12	--	--	--	--	--	--	--	--	--	--
APR												
20...	310	<4	36	7	12	30	1.0	2.0	.1	35	0	29
MAY												
18...	290	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	300	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	13	10	52	4	17	42	2.0	2.9	.9	59	0	48
AUG												
17...	27	--	--	--	--	--	--	--	--	--	--	--
SEP												
21...	7	80	--	--	--	--	--	--	--	--	--	--

07074990 MIDDLE FORK LITTLE RED RIVER NEAR SHIRLEY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
20...	2.6	6.0	2.5	64	1	65	<.10	.01	<3	<10	0	30
NOV												
18...	--	4.0	3.5	42	4	46	.12	.02	--	--	--	<10
DEC												
16...	--	7.0	3.5	50	6	56	<.10	.01	--	--	--	<10
JAN												
26...	2.6	6.0	4.5	43	16	59	.17	.02	<3	<10	<3	<10
FEB												
23...	--	6.0	4.5	59	8	67	.12	.01	--	--	--	40
MAR												
15...	--	3.0	4.0	48	12	60	<.10	<.01	--	--	--	<10
APR												
20...	.4	4.0	2.5	42	16	58	<.10	.04	<3	<10	<3	50
MAY												
18...	--	5.0	3.5	66	13	79	<.10	.05	--	--	--	<10
JUN												
15...	--	5.0	4.0	68	4	72	.47	.09	--	--	--	<10
JUL												
20...	3.0	5.0	4.0	72	7	79	<.10	.02	<3	<10	<3	<10
AUG												
17...	--	3.0	3.5	72	8	80	<.10	.02	--	<10	--	<10
SEP												
21...	--	4.0	3.5	67	15	82	<.10	.01	--	--	--	10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
20...	260	40	150	<10	--	--	--	--	--	--	--	--
NOV												
18...	300	60	39	<10	--	--	--	--	--	--	--	--
DEC												
16...	450	100	27	10	.00	.00	.00	.00	.00	.00	.00	<1
JAN												
26...	530	440	37	10	--	--	--	--	--	--	--	--
FEB												
23...	530	410	<27	<10	--	--	--	--	--	--	--	--
MAR												
15...	470	40	39	20	--	--	--	--	--	--	--	--
APR												
20...	410	40	53	10	--	--	--	--	--	--	--	--
MAY												
18...	800	20	<27	<10	--	--	--	--	--	--	--	--
JUN												
15...	270	110	27	10	--	--	--	--	--	--	--	--
JUL												
20...	230	30	<27	<10	--	--	--	--	--	--	--	--
AUG												
17...	170	60	50	<10	--	--	--	--	--	--	--	--
SEP												
21...	230	60	55	10	--	--	--	--	--	--	--	--

07075000 MIDDLE FORK LITTLE RED RIVER AT SHIRLEY, AR

LOCATION.--Lat 35°39'10", long 92°19'10", in SW¼ sec.20, T.12 N., R.12 W., Van Buren County, on right bank 0.5 mi (0.8 km) downstream from Sugar Camp (or Weavers) Creek, 1.0 mi (1.6 km) east of Shirley, and at mile 122.0 (196.3 km).

DRAINAGE AREA.--302 mi^2 (782 km^2).

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

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 483.12 ft (147.255 m) above mean sea level. Prior to June 6, 1939, nonrecording gage at site 70 ft (21 m) upstream at same datum.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--37 years, 470 ft^3/s (13.3 m^3/s), 21.71 in/yr (551 mm/yr), 340,500 acre-ft/yr (420 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 101,000 ft^3/s (2,860 m^3/s) Jan. 24, 1949, gage height, 28.3 ft (8.63 m) in gage well; about 31 ft (9.4 m) on nonrecording gage, from stage-relation curve, from rating curve extended above 60,000 ft^3/s (1,700 m^3/s); no flow at times.
NOTE.--Maximum gage heights published prior to 1949 water year were referred to nonrecording gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,800 ft^3/s (278 m^3/s) June 25 at 0530 hours, gage height, 15.61 ft (4.758 m), no other peaks above base of 6,000 ft^3/s (170 m^3/s); no flow Sept. 27-30.

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	38	14	260	882	272	227	864	266	567	368	8.8	5.0
2	34	13	254	649	242	211	655	233	847	303	7.7	6.7
3	29	24	193	516	222	194	540	202	698	255	6.4	8.9
4	26	72	160	412	202	182	452	169	468	328	5.8	8.8
5	23	73	141	332	185	298	376	147	383	455	5.2	7.3
6	22	62	316	288	169	349	325	139	740	307	4.0	5.2
7	20	52	453	271	152	304	287	135	546	230	3.2	3.8
8	18	46	355	234	137	438	251	117	347	184	2.8	3.8
9	17	40	275	203	129	2320	219	103	256	141	2.6	3.8
10	16	36	219	183	122	1890	194	94	203	108	2.4	3.4
11	14	36	180	175	125	1130	172	88	160	88	1.9	2.0
12	13	33	154	162	117	908	157	84	125	74	1.4	1.0
13	12	30	135	152	113	725	143	104	93	59	1.8	.60
14	9.8	29	117	140	103	592	137	117	70	51	2.1	1.1
15	9.8	26	127	122	97	512	127	1060	60	44	1.5	1.9
16	9.7	25	176	110	95	448	118	2280	230	37	1.6	2.4
17	8.8	24	203	101	639	380	110	1010	294	33	1.2	2.7
18	8.4	24	180	93	2750	328	104	649	158	29	1.0	3.1
19	9.6	22	157	88	1450	296	117	464	106	27	1.6	3.6
20	8.3	26	140	97	887	302	387	339	88	24	2.4	3.8
21	7.9	42	122	97	752	443	1500	263	62	21	2.6	3.6
22	7.5	57	105	99	719	346	727	208	46	19	2.8	2.9
23	7.3	53	95	99	566	293	497	169	262	17	2.8	2.0
24	7.8	51	84	99	472	263	407	194	2950	15	2.8	1.6
25	26	48	95	369	408	245	1170	530	5520	15	2.4	1.2
26	30	53	105	864	353	236	814	302	2280	14	1.8	.40
27	26	56	105	627	306	385	586	744	1160	11	1.4	0
28	22	53	124	493	272	348	450	3530	798	9.7	1.7	0
29	19	59	3760	416	248	893	364	1570	594	9.8	2.9	0
30	15	133	2890	356	---	2250	309	858	458	11	3.2	0
31	14	---	1510	312	---	1240	---	618	---	10	2.8	---
TOTAL	528.9	1312	13190	9041	12304	18976	12559	16786	20569	3297.5	92.6	90.60
MEAN	17.1	43.7	425	292	424	612	419	541	686	106	2.99	3.02
MAX	38	133	3760	882	2750	2320	1500	3530	5520	455	8.8	8.9
MIN	7.3	13	84	88	95	182	104	84	46	9.7	1.0	0
CFSM	.06	.14	1.41	.97	1.40	2.03	1.39	1.79	2.27	.35	.009	.01
IN.	.07	.16	1.62	1.11	1.52	2.34	1.55	2.07	2.53	.41	.01	.01
AC-FT	1050	2600	26160	17930	24400	37640	24910	33300	40800	6540	184	180

CAL YR 1975 TOTAL 169491.40 MEAN 464 MAX 22700 MIN 6.9 CFSM 1.54 IN 20.88 AC-FT 336200
WTR YR 1976 TOTAL 108746.60 MEAN 297 MAX 5520 MIN 0 CFSM .98 IN 13.40 AC-FT 215700

07075300 SOUTH FORK LITTLE RED RIVER AT CLINTON, AR

LOCATION.--Lat 35°35'29", long 92°27'20", in SW¼ sec.14, T.11 N., R.14 W., Van Buren County, near right bank on upstream side of bridge on U.S. Highway 65 at Clinton, 0.2 mi (0.3 km) upstream from Archey Creek, and at mile 23.7 (38.1 km).

DRAINAGE AREA.--148 mi^2 (383 km^2).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD Ark. 1968: 1962, 1964. WRD Ark. 1973: Drainage area. WRD Ark. 1974: 1964(M).

GAGE.--Water-stage recorder. Datum of gage is 481.11 ft (146.642 m) above mean sea level. Prior to Oct. 1, 1966, nonrecording gage at present site and datum.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--15 years, 235 ft^3/s (6.66 m^3/s), 22.01 in/yr (559 mm/yr), 170,300 acre-ft/yr (210 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,300 ft^3/s (688 m^3/s) Mar. 9, 1964, gage height, 24.00 ft (7.315 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,300 ft^3/s (122 m^3/s) June 25, gage height, 13.79 ft (4.203 m), no peaks above base of 5,000 ft^3/s (140 m^3/s); no flow Aug. 30-Sept. 1, 26-30.

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	24	15	215	556	198	182	478	160	461	174	4.5	0
2	21	15	188	409	178	167	394	144	456	138	3.9	1.0
3	18	38	168	325	158	156	337	128	336	117	3.3	2.2
4	15	111	146	260	144	148	292	116	260	151	3.0	2.4
5	14	100	137	240	133	210	252	106	229	137	2.8	2.6
6	13	83	344	218	125	190	222	102	222	103	3.0	2.0
7	12	72	375	198	113	169	200	101	180	79	2.8	1.4
8	12	62	285	183	107	317	180	93	144	64	2.6	1.4
9	11	55	235	170	102	1360	162	83	122	52	2.2	1.2
10	11	50	198	158	99	932	146	77	103	43	2.0	1.0
11	11	45	172	148	96	643	141	77	86	36	1.6	.70
12	11	41	154	140	95	558	188	75	74	30	1.2	.50
13	10	35	140	130	93	441	161	91	64	24	.90	.40
14	9.2	32	130	122	88	365	148	118	55	21	.90	.40
15	9.2	32	125	116	85	323	137	480	47	18	.80	.40
16	8.0	30	143	110	83	285	128	865	46	15	.80	.40
17	6.1	29	170	106	642	246	120	483	44	13	.90	.40
18	5.4	27	140	100	2060	216	117	356	42	11	.90	.50
19	6.0	26	123	98	877	190	134	278	39	10	.90	.50
20	5.2	43	110	100	599	180	302	224	33	8.4	1.0	.50
21	5.0	112	98	100	662	215	558	192	29	7.6	1.0	.50
22	4.7	100	88	99	552	178	387	164	26	6.8	.80	.30
23	4.6	84	79	96	435	161	304	140	784	7.4	.80	.10
24	4.9	73	72	96	365	149	278	218	1020	8.4	.80	.10
25	16	65	76	575	322	144	392	225	2240	7.2	.80	.20
26	19	63	80	660	280	139	308	177	891	6.8	.70	0
27	16	62	82	436	242	207	257	866	547	6.4	.50	0
28	14	58	110	352	216	219	217	1590	371	6.4	.30	0
29	12	57	2370	302	198	605	194	788	300	5.7	.10	0
30	9.4	88	1820	257	---	976	176	499	225	5.4	0	0
31	16	---	951	225	---	625	---	385	---	5.1	0	---
TOTAL	353.7	1703	9524	7085	9347	10896	7310	9401	9476	1317.6	45.80	21.10
MEAN	11.4	56.8	307	229	322	351	244	303	316	42.5	1.48	.70
MAX	24	112	2370	660	2060	1360	558	1590	2240	174	4.5	2.6
MIN	4.6	15	72	96	83	139	117	75	26	5.1	0	0
CFSM	.08	.38	2.07	1.55	2.18	2.37	1.65	2.05	2.14	.29	.01	.004
IN.	.09	.43	2.39	1.78	2.35	2.74	1.84	2.36	2.38	.33	.01	.005
AC-FT	702	3380	18890	14050	18540	21610	14500	18650	18800	2610	91	42

CAL YR 1975 TOTAL 101053.80 MEAN 277 MAX 11800 MIN 3.3 CFSM 1.87 IN 25.40 AC-FT 200400
WTR YR 1976 TOTAL 66480.20 MEAN 182 MAX 2370 MIN 0 CFSM 1.23 IN 16.71 AC-FT 131900

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR

LOCATION.--Lat 35°33'48", long 92°11'48", in NE¼ sec.30, T.11 N., R.11 W., Cleburne County, at the Narrows bridge on State Highway 16 and 92, 0.8 mi (1.3 km) southeast of Higden.

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

COOPERATION.--Part of the records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)
OCT										
20...	9827	9827	--	38	7.1	22.0	20.0	5	4	--
NOV										
04...	810	1028	.0	--	--	--	--	--	--	--
04...	810	--	--	--	--	--	--	--	--	144
04...	810	1028	26	39	--	--	--	--	--	--
04...	810	810	26	<50	7.4	--	17.0	30	0	--
04...	810	1028	100	51	--	--	--	--	--	--
04...	810	810	100	55	7.4	--	11.5	45	38	--
18...	9827	9827	--	35	7.1	19.0	16.0	0	2	--
DEC										
16...	9827	9827	--	35	7.1	6.0	10.0	5	3	--
JAN										
26...	9827	9827	--	48	6.9	3.0	6.0	5	4	--
FEB										
23...	9827	9827	--	40	7.2	16.0	11.0	5	6	--
MAR										
15...	9827	9827	--	42	7.3	17.0	14.0	10	8	--
16...	810	--	--	--	--	--	--	--	--	48
16...	810	1028	.0	--	--	--	--	--	--	--
16...	810	1028	26	40	--	--	--	--	--	--
16...	810	810	26	50	6.7	--	11.5	15	18	--
16...	810	1028	104	77	--	--	--	--	--	--
16...	810	810	104	50	7.3	--	8.5	10	12	--
APR										
20...	9827	9827	--	43	7.3	22.0	18.0	5	3	--
MAY										
18...	9827	9827	--	40	7.5	25.0	19.0	5	2	--
JUN										
15...	9827	9827	--	39	7.5	33.0	25.0	0	<25	--
30...	810	--	--	--	--	--	--	--	--	156
30...	810	1028	.0	--	--	--	--	--	--	--
30...	810	1028	26	51	--	--	--	--	--	--
30...	810	810	26	55	7.4	--	24.0	5	10	--
30...	810	810	104	<50	7.5	--	13.0	30	15	--
30...	810	1028	104	--	--	--	--	--	--	--
JUL										
20...	9827	9827	--	43	7.0	33.0	23.0	10	2	--
AUG										
17...	9827	9827	--	44	7.6	33.0	29.0	5	2	--
SEP										
21...	9827	9827	--	47	7.4	24.0	23.0	5	5	--

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)
OCT										
20...	7.9	86	.6	<5	<4	<4	34	19	6.0	16
NOV										
04...	--	--	--	--	1	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	1.4	--	--	--	--	--	--	--
04...	8.6	--	--	--	--	--	20	--	--	12
04...	--	--	.1	--	--	--	--	--	--	--
04...	.0	--	--	--	--	--	30	--	--	13
18...	8.7	87	.4	25	<4	<4	--	--	--	--
DEC										
16...	9.4	83	.7	33	5	12	--	--	--	--
JAN										
26...	11.2	89	.8	13	20	4	18	2	5.0	12
FEB										
23...	11.5	104	1.2	10	30	<4	--	--	--	--
MAR										
15...	10.7	103	.9	<5	10	<4	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	2	--	--	--	--	--
16...	--	--	1.7	--	--	--	--	--	--	--
16...	10.5	--	--	--	--	--	16	--	--	12
16...	--	--	1.6	--	--	--	--	--	--	--
16...	10.5	--	--	--	--	--	18	--	--	14
APR										
20...	10.1	106	1.1	5	5	200	18	7	5.0	12
MAY										
18...	10.3	110	1.6	5	<5	--	--	--	--	--
JUN										
15...	8.7	104	.8	5	4	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	1	--	--	--	--	--
30...	--	--	.2	--	--	--	--	--	--	--
30...	7.1	--	--	--	--	--	24	--	--	16
30...	4.9	--	--	--	--	--	20	--	--	12
30...	--	--	.2	--	--	--	--	--	--	--
JUL										
20...	8.3	95	1.1	<5	<4	5	26	13	4.0	10
AUG										
17...	9.3	119	2.2	<5	<4	--	--	--	--	--
SEP										
21...	8.3	95	1.0	--	--	--	--	--	--	--

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)
OCT									
20...	4.0	1.7	7.0	18	0	15	2.3	2.0	3.0
NOV									
04...	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--
04...	--	--	.8	--	--	--	--	3.4	1.4
04...	--	--	--	--	--	12	--	--	--
04...	--	--	.7	--	--	--	--	4.3	1.9
04...	--	--	--	--	--	20	--	--	--
18...	--	--	--	--	--	--	--	1.0	3.0
DEC									
16...	--	--	--	--	--	--	--	<1.0	2.5
JAN									
26...	1.0	1.6	.1	20	0	16	4.0	1.0	3.0
FEB									
23...	--	--	--	--	--	--	--	2.0	3.5
MAR									
15...	--	--	--	--	--	--	--	1.0	3.0
16...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
16...	--	--	1.0	--	--	--	--	4.2	1.4
16...	--	--	--	--	--	12	--	--	--
16...	--	--	.8	--	--	--	--	6.4	7.1
16...	--	--	--	--	--	14	--	--	--
APR									
20...	1.0	1.2	.1	13	0	11	1.0	2.0	2.5
MAY									
18...	--	--	--	--	--	--	--	1.0	3.5
JUN									
15...	--	--	--	--	--	--	--	1.0	3.5
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
30...	--	--	.9	--	--	--	--	3.8	1.8
30...	--	--	--	--	--	20	--	--	--
30...	--	--	--	--	--	14	--	--	--
30...	--	--	.8	--	--	--	--	3.6	1.7
JUL									
20...	4.0	1.3	.6	17	0	14	2.7	<1.0	3.0
AUG									
17...	--	--	--	--	--	--	--	1.0	2.5
SEP									
21...	--	--	--	--	--	--	--	4.0	3.0

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)
OCT									
20...	29	8	37	<.10	--	--	--	--	--
NOV									
04...	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	.03	.01	.19	.20	.23
04...	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	.01	.01	.28	.29	.30
04...	--	--	--	--	--	--	--	--	--
18...	17	2	19	<.10	--	--	--	--	--
DEC									
16...	22	4	26	<.10	--	--	--	--	--
JAN									
26...	22	10	32	.21	--	--	--	--	--
FEB									
23...	39	2	41	.22	--	--	--	--	--
MAR									
15...	32	6	38	.20	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	.17	.00	.30	.30	.47
16...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	.19	.13	.29	.42	.61
16...	--	--	--	--	--	--	--	--	--
APR									
20...	23	7	30	.10	--	--	--	--	--
MAY									
18...	27	6	33	<.10	--	--	--	--	--
JUN									
15...	34	--	29	1.0	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	.01	.01	.10	.11	.12
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUL									
20...	31	2	33	<.10	--	--	--	--	--
AUG									
17...	31	1	32	<.10	--	--	--	--	--
SEP									
21...	26	6	32	<.10	--	--	--	--	--

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)
OCT										
20...	--	<.01	--	--	<3	<10	0	80	51	40
NOV										
04...	1.0	.01	.00	50	0	--	0	140	0	100
04...	1.3	.01	.00	70	0	--	0	130	150	<100
18...	--	.01	--	--	--	--	--	<10	71	100
DEC										
16...	--	<.01	--	--	--	--	--	<10	160	130
JAN										
26...	--	.01	--	--	<3	<10	<3	<10	1200	300
FEB										
23...	--	<.01	--	--	--	--	--	70	170	240
MAR										
15...	--	<.01	--	--	--	--	--	<10	300	40
16...	2.1	.02	.01	170	0	--	0	160	220	<100
16...	2.7	.03	.01	690	3	--	0	220	1200	<100
APR										
20...	--	<.01	--	--	<3	<10	<3	100	110	20
MAY										
18...	--	<.01	--	--	--	--	--	<10	110	10
JUN										
15...	--	.05	--	--	--	--	--	<10	71	90
30...	.53	.00	.00	140	1	--	10	140	140	20
30...	--	--	--	90	0	--	20	110	160	48
JUL										
20...	--	<.01	--	--	<3	<10	<3	<10	24	<10
AUG										
17...	--	<.01	--	--	--	<10	--	<10	41	50
SEP										
21...	--	<.01	--	--	--	--	--	30	120	50

DATE	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)
OCT										
20...	47	--	--	<10	--	--	--	--	--	--
NOV										
04...	30	.0	100	90	--	--	--	--	--	--
04...	140	.0	50	90	--	--	--	--	--	--
18...	72	--	--	<10	--	--	--	--	--	--
DEC										
16...	180	--	--	<10	.00	.00	.00	.00	.00	.00
JAN										
26...	210	--	--	10	--	--	--	--	--	--
FEB										
23...	<27	--	--	<10	--	--	--	--	--	--
MAR										
15...	34	--	--	10	--	--	--	--	--	--
16...	60	.0	<50	130	--	--	--	--	--	--
16...	200	.0	50	180	--	--	--	--	--	--
APR										
20...	46	--	--	<10	--	--	--	--	--	--
MAY										
18...	<27	--	--	<10	--	--	--	--	--	--
JUN										
15...	<27	--	--	20	--	--	--	--	--	--
30...	30	.2	24	140	--	--	--	--	--	--
30...	80	.4	16	140	--	--	--	--	--	--
JUL										
20...	<27	--	--	<10	--	--	--	--	--	--
AUG										
17...	42	--	--	<10	--	--	--	--	--	--
SEP										
21...	<27	--	--	20	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR

LOCATION.--Lat 35°31'15", long 91°59'42", in SE¼ sec.6, T.10 N., R.9 W., Cleburne County, on State Highway 25 at Greers Ferry Dam on Little Red River, 2.5 mi (4.0 km) northeast of Heber Springs, 5.5 mi (8.8 km) upstream from Canoe Creek, and at mile 79.0 (127.1 km).
DRAINAGE AREA.--1,153 mi^2 (2,986 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1961 to current year. Prior to October 1969, published as Greers Ferry Reservoir near Heber Springs.
REVISED RECORDS.--WRD Ark. 1973: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Mar. 16, 1963, nonrecording gage at present site and datum.
REMARKS.--Lake is formed by concrete-gravity dam. Storage for purpose of filling to power-pool level began on Mar. 30, 1962, and bottom of power pool was first reached Mar. 10, 1964. Capacity between elevations 461.0 ft (140.51 m) and 487.0 ft (148.44 m) is 934,000 acre-ft (1.15 km^3) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates	489.0 (149.05 m)	2,926,500 (3.61 km^3)
Top of designated flood-control pool	487.0 (148.44 m)	2,844,500 (3.51 km^3)
Top of designated power pool	461.0 (140.51 m)	1,910,500 (2.36 km^3)
Crest of gated spillway	453.0 (138.07 m)	1,668,000 (2.06 km^3)
Bottom of designated power pool	435.0 (132.59 m)	1,194,000 (1.47 km^3)
Bottom of lowest outlet	283.0 (86.26 m)	640 (789,000 m^3)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,724,000 acre-ft (3.36 km^3) May 9, 1973, elevation, 483.97 ft (147.514 m); minimum since initial filling to bottom of power-pool level, 1,480,000 acre-ft (1.82 km^3) Dec. 3, 1966, elevation, 446.30 ft (136.032 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,058,000 acre-ft (2.54 km^3) July 6, elevation, 465.59 ft (141.912 m); minimum, 1,533,000 acre-ft (1.89 km^3) Nov. 28, elevation, 448.24 ft (136.611 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

448	1,527	463	1,974
453	1,668	466	2,071
458	1,817		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1678000	1579000	1537000	1651000	1719000	1811000	1908000	1925000	1999000	2050000	1896000	1730000
2	1672000	1579000	1539000	1657000	1721000	1808000	1910000	1926000	1999000	2052000	1895000	1732000
3	1662000	1582000	1540000	1661000	1721000	1805000	1914000	1926000	1998000	2054000	1893000	1728000
4	1661000	1580000	1542000	1663000	1722000	1802000	1917000	1926000	1996000	2056000	1891000	1726000
5	1660000	1578000	1546000	1662000	1721000	1799000	1911000	1926000	1998000	2057000	1888000	1724000
6	1654000	1578000	1556000	1664000	1721000	1800000	1905000	1927000	2001000	2051000	1881000	1722000
7	1646000	1580000	1561000	1666000	1721000	1803000	1899000	1924000	2001000	2046000	1871000	1716000
8	1636000	1580000	1564000	1666000	1722000	1804000	1892000	1924000	1999000	2040000	1868000	1710000
9	1629000	1581000	1565000	1665000	1724000	1823000	1886000	1924000	1996000	2033000	1860000	1708000
10	1626000	1580000	1568000	1666000	1725000	1835000	1885000	1925000	1992000	2024000	1854000	1706000
11	1624000	1580000	1569000	1668000	1726000	1844000	1885000	1925000	1987000	2015000	1847000	1705000
12	1623000	1578000	1570000	1669000	1726000	1850000	1881000	1928000	1983000	2010000	1840000	1704000
13	1617000	1575000	1572000	1671000	1727000	1854000	1881000	1928000	1982000	2005000	1834000	1697000
14	1610000	1574000	1573000	1672000	1727000	1859000	1880000	1928000	1978000	1999000	1829000	1695000
15	1607000	1574000	1574000	1672000	1729000	1860000	1880000	1939000	1979000	1993000	1829000	1693000
16	1603000	1574000	1575000	1673000	1729000	1860000	1880000	1950000	1978000	1986000	1820000	1689000
17	1595000	1572000	1575000	1673000	1746000	1860000	1882000	1952000	1976000	1983000	1813000	1685000
18	1594000	1573000	1574000	1674000	1770000	1861000	1887000	1955000	1979000	1979000	1805000	1684000
19	1594000	1572000	1572000	1674000	1781000	1864000	1888000	1957000	1979000	1973000	1798000	1684000
20	1586000	1572000	1572000	1676000	1788000	1868000	1893000	1959000	1979000	1967000	1791000	1683000
21	1582000	1566000	1573000	1677000	1801000	1871000	1899000	1958000	1978000	1960000	1783000	1682000
22	1582000	1566000	1570000	1676000	1807000	1872000	1902000	1959000	1977000	1953000	1779000	1680000
23	1582000	1566000	1568000	1677000	1808000	1873000	1904000	1961000	1992000	1947000	1772000	1678000
24	1584000	1557000	1569000	1680000	1808000	1874000	1910000	1961000	2011000	1941000	1765000	1678000
25	1584000	1547000	1572000	1693000	1809000	1871000	1915000	1961000	2037000	1938000	1759000	1676000
26	1583000	1541000	1572000	1700000	1811000	1870000	1919000	1962000	2046000	1931000	1753000	1676000
27	1583000	1537000	1573000	1706000	1812000	1870000	1920000	1970000	2052000	1924000	1746000	1672000
28	1582000	1534000	1576000	1710000	1812000	1876000	1920000	1981000	2054000	1916000	1739000	1664000
29	1582000	1535000	1615000	1713000	1813000	1889000	1922000	1988000	2054000	1910000	1738000	1656000
30	1582000	1539000	1634000	1715000	---	1900000	1924000	1992000	2054000	1904000	1732000	1648000
31	1580000	---	1644000	1718000	---	1904000	---	1996000	---	1898000	1729000	---
MAX	1678000	1582000	1644000	1718000	1813000	1904000	1924000	1996000	2054000	2057000	1896000	1732000
MIN	1580000	1534000	1537000	1651000	1719000	1799000	1880000	1924000	1976000	1898000	1729000	1648000
(†)	449.88	448.44	452.19	454.68	457.86	460.80	461.42	463.68	465.48	460.59	455.08	452.31
(‡)	-102000	-41000	+105000	+74000	+95000	+91000	+20000	+72000	+58000	-156000	-169000	-81000

CAL YR 1975 MAX 2386000 MIN 1534000 ‡ -266000
WTR YR 1976 MAX 2057000 MIN 1534000 ‡ -34000

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to September 1972, December 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV											
05...	810	--	--	--	--	--	--	--	--	--	--
05...	810	1028	.0	--	--	--	0	--	--	--	--
05...	810	810	10	5	2	--	--	22	12	--	10
05...	810	1028	25	--	--	.8	--	--	--	.7	--
05...	810	810	25	20	0	--	--	26	14	--	10
05...	810	810	50	10	0	--	--	22	12	--	12
05...	810	810	75	4	0	--	--	26	10	--	12
05...	810	1028	100	--	--	.8	--	--	--	.6	--
05...	810	810	100	0	4	--	--	26	12	--	10
05...	810	810	125	0	8	--	--	20	13	--	13
05...	810	810	150	2	5	--	--	28	14	--	14
05...	810	810	175	5	4	--	--	28	13	--	15

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
NOV										
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	14	9.2	.01	.01	.29	.30	.31	1.4	.01	.01
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	2.6	2.8	.13	.00	.31	.31	.44	1.9	.01	.00
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
NOV										
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	60	0	8	160	0	<100	60	.0	100	100
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	90	0	0	160	70	100	60	.0	50	120
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
MAR											
15...	810	1028	.0	--	--	--	10	--	--	--	--
15...	810	--	--	--	--	--	--	--	--	--	--
15...	810	1028	25	--	--	1.8	--	--	--	.9	--
15...	810	810	25	0	5	--	--	16	10	--	16
15...	810	1028	100	--	--	1.2	--	--	--	.9	--
15...	810	810	100	0	5	--	--	36	11	--	14

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
MAR										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	3.4	1.2	.10	.00	.20	.20	.30	1.3	.01	.00
15...	--	--	--	--	--	--	--	--	--	--
15...	3.5	1.3	.12	.00	.07	.07	.19	.84	.02	.00
15...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
MAR										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	80	0	10	140	40	<100	40	.0	50	140
15...	--	--	--	--	--	--	--	--	--	--
15...	60	0	0	150	0	<100	20	.0	<50	130
15...	--	--	--	--	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)
JUN											
29...	810	1028	.0	--	--	--	<3	--	--	--	--
29...	810	--	--	--	--	--	--	--	--	--	--
29...	810	810	10	10	5	--	--	18	10	--	10
29...	810	1028	25	--	--	.1	--	--	--	.8	--
29...	810	810	25	10	10	--	--	12	9	--	9
29...	810	1028	100	--	--	1.4	--	--	--	.9	--
29...	810	810	100	25	4	--	--	13	10	--	10
29...	810	810	125	18	5	--	--	14	12	--	10

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
JUN										
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	3.0	1.5	.01	.00	.09	.09	.10	.44	.01	.01
29...	--	--	--	--	--	--	--	--	--	--
29...	3.3	1.5	.11	.13	.40	.53	.64	2.8	.01	.00
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
JUN										
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	40	0	30	120	90	20	20	.1	23	120
29...	--	--	--	--	--	--	--	--	--	--
29...	30	1	20	200	40	37	20	.1	30	200
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)
NOV								
05...	810	--	--	--	--	--	216	--
05...	810	1028	.0	--	--	--	--	--
05...	810	810	10	--	7.3	18.0	--	8.3
05...	810	1028	25	37	--	--	--	--
05...	810	810	25	--	7.4	17.0	--	8.1
05...	810	810	50	--	7.6	15.5	--	5.9
05...	810	810	75	--	7.5	14.5	--	6.0
05...	810	1028	100	37	--	--	--	--
05...	810	810	100	--	7.6	10.5	--	4.1
05...	810	810	125	--	7.6	10.5	--	2.0
05...	810	810	150	--	7.6	10.0	--	.7
05...	810	810	175	--	7.5	9.5	--	.2
17...	1028	--	--	--	--	--	192	--
17...	1028	1028	.0	35	7.2	18.0	--	8.4
17...	1028	1028	10	35	--	17.5	--	7.0
17...	1028	1028	20	35	--	17.5	--	6.8
17...	1028	1028	30	35	7.1	17.0	--	6.8
17...	1028	1028	40	35	--	17.0	--	6.8
17...	1028	1028	50	36	--	16.5	--	6.0
17...	1028	1028	55	37	--	15.0	--	3.5
17...	1028	1028	60	38	6.7	14.0	--	3.3
17...	1028	1028	70	39	--	12.5	--	3.9
17...	1028	1028	80	33	--	12.0	--	4.2
17...	1028	1028	90	34	6.7	11.0	--	4.1
17...	1028	1028	100	34	--	10.5	--	3.9
17...	1028	1028	110	34	--	10.0	--	3.4
17...	1028	1028	120	34	6.7	10.0	--	2.4
17...	1028	1028	130	34	--	10.0	--	1.8
17...	1028	1028	140	34	6.6	10.0	--	1.5
DEC								
15...	1028	--	--	--	--	--	180	--
15...	1028	1028	.0	34	6.6	11.0	--	9.0
15...	1028	1028	10	34	6.4	11.0	--	8.9
15...	1028	1028	20	34	6.4	11.0	--	8.8
15...	1028	1028	30	34	6.3	11.0	--	8.8
15...	1028	1028	40	34	6.3	11.0	--	8.6
15...	1028	1028	50	34	6.3	11.0	--	8.6
15...	1028	1028	60	34	6.2	11.0	--	8.5
15...	1028	1028	70	34	6.2	11.0	--	8.3
15...	1028	1028	80	34	6.1	10.5	--	8.6
15...	1028	1028	85	34	5.8	10.5	--	6.3
15...	1028	1028	90	34	5.7	10.0	--	4.7
15...	1028	1028	95	35	5.5	9.5	--	4.3
15...	1028	1028	100	35	5.5	9.5	--	3.9
15...	1028	1028	110	36	5.4	9.0	--	3.3
15...	1028	1028	120	36	5.4	9.0	--	2.4
15...	1028	1028	130	43	5.4	9.0	--	1.8
15...	1028	1028	140	43	5.4	9.0	--	1.6
15...	1028	1028	145	43	5.2	9.0	--	.9
JAN								
19...	1028	--	--	--	--	--	108	--
19...	1028	1028	.0	37	6.4	7.0	--	9.4
19...	1028	1028	10	37	6.1	7.0	--	9.3
19...	1028	1028	20	37	5.8	7.0	--	9.2
19...	1028	1028	30	37	5.6	7.0	--	9.4
19...	1028	1028	40	37	5.5	7.0	--	9.4
19...	1028	1028	50	37	5.4	7.0	--	9.7
19...	1028	1028	60	37	5.5	7.0	--	9.2
19...	1028	1028	70	37	5.6	7.0	--	10.0
19...	1028	1028	80	38	5.6	6.5	--	9.8
19...	1028	1028	90	38	5.6	6.5	--	9.8
19...	1028	1028	100	38	5.6	6.5	--	10.0
19...	1028	1028	110	39	5.6	6.0	--	10.0
19...	1028	1028	120	39	5.6	6.0	--	10.0
19...	1028	1028	130	39	5.6	6.0	--	10.0
19...	1028	1028	135	39	5.7	6.0	--	9.8
19...	1028	1028	140	39	5.7	6.0	--	9.8
FEB								
23...	1028	--	--	--	--	--	90	--
23...	1028	1028	.0	35	7.8	10.5	--	11.2
23...	1028	1028	10	36	7.7	9.5	--	11.2
23...	1028	1028	20	35	7.7	9.5	--	11.2
23...	1028	1028	30	35	7.7	9.5	--	11.2
23...	1028	1028	50	36	7.7	9.0	--	11.0
23...	1028	1028	70	36	7.4	8.0	--	11.0
23...	1028	1028	90	36	7.3	8.0	--	11.0
23...	1028	1028	110	37	7.4	7.5	--	10.8
23...	1028	1028	130	37	7.3	7.5	--	10.6
23...	1028	1028	147	37	7.3	7.5	--	10.6
MAR								
15...	810	1028	.0	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)
MAR								
15...	810	--	--	--	--	--	144	--
15...	810	1028	25	35	--	--	--	--
15...	810	810	25	50	7.2	12.0	--	10.9
15...	810	1028	100	36	--	--	--	--
15...	810	810	100	50	6.7	9.5	--	10.7
22...	1028	--	--	--	--	--	144	--
22...	1028	1028	.0	31	7.0	14.0	--	10.8
22...	1028	1028	10	32	7.1	13.0	--	10.6
22...	1028	1028	20	32	7.2	13.0	--	10.5
22...	1028	1028	30	32	7.1	13.0	--	10.4
22...	1028	1028	40	32	7.1	12.5	--	10.4
22...	1028	1028	50	33	7.0	12.0	--	10.4
22...	1028	1028	60	34	7.0	11.0	--	10.4
22...	1028	1028	65	35	6.9	10.0	--	10.3
22...	1028	1028	70	36	6.9	9.0	--	10.3
22...	1028	1028	80	36	6.9	8.5	--	11.2
22...	1028	1028	90	36	6.8	9.0	--	10.1
22...	1028	1028	100	36	6.8	8.0	--	10.0
22...	1028	1028	110	36	6.8	8.0	--	10.9
22...	1028	1028	120	36	6.8	8.0	--	9.8
22...	1028	1028	130	36	6.8	8.0	--	9.7
22...	1028	1028	140	37	6.8	7.5	--	9.6
22...	1028	1028	145	37	6.8	7.5	--	9.6
APR								
19...	1028	--	--	--	--	--	216	--
19...	1028	1028	.0	36	7.6	17.0	--	10.0
19...	1028	1028	10	37	7.6	16.5	--	10.0
19...	1028	1028	20	37	7.7	16.0	--	9.9
19...	1028	1028	25	35	7.6	15.0	--	9.9
19...	1028	1028	30	37	7.7	13.5	--	10.0
19...	1028	1028	35	37	7.6	12.5	--	10.0
19...	1028	1028	40	37	7.4	12.0	--	9.9
19...	1028	1028	50	36	7.2	11.0	--	10.0
19...	1028	1028	60	37	7.1	10.0	--	9.6
19...	1028	1028	70	36	7.0	9.5	--	9.3
19...	1028	1028	80	37	7.0	8.5	--	9.3
19...	1028	1028	90	38	6.9	7.5	--	9.2
19...	1028	1028	100	37	6.9	7.0	--	9.1
19...	1028	1028	110	37	6.8	7.0	--	8.9
19...	1028	1028	120	37	6.7	7.0	--	8.8
19...	1028	1028	130	38	6.7	6.5	--	8.6
19...	1028	1028	140	38	6.7	6.5	--	8.4
19...	1028	1028	145	38	6.8	6.5	--	8.1
MAY								
25...	1028	--	--	--	--	--	144	--
25...	1028	1028	.0	36	7.3	22.0	--	9.0
25...	1028	1028	10	36	7.5	22.0	--	9.2
25...	1028	1028	15	36	8.1	21.0	--	10.0
25...	1028	1028	20	37	8.0	19.0	--	9.6
25...	1028	1028	25	37	8.0	18.5	--	10.4
25...	1028	1028	30	37	8.0	18.0	--	10.0
25...	1028	1028	35	36	8.0	17.0	--	--
25...	1028	1028	40	36	7.8	16.0	--	9.8
25...	1028	1028	50	37	7.4	15.0	--	9.6
25...	1028	1028	60	37	7.3	13.0	--	--
25...	1028	1028	70	38	7.1	11.0	--	8.6
25...	1028	1028	80	38	7.0	9.5	--	--
25...	1028	1028	90	38	6.8	8.0	--	8.6
25...	1028	1028	100	37	6.7	7.0	--	--
25...	1028	1028	110	37	6.6	7.0	--	8.8
25...	1028	1028	120	38	6.6	6.5	--	--
25...	1028	1028	130	38	6.6	6.5	--	8.0
25...	1028	1028	140	38	6.6	6.0	--	--
25...	1028	1028	150	38	6.7	6.0	--	6.0
JUN								
22...	--	--	--	--	--	--	168	--
22...	1028	1028	.0	26	7.5	25.5	--	8.4
22...	1028	1028	10	26	7.5	25.5	--	8.4
22...	1028	1028	15	26	7.5	25.5	--	8.4
22...	1028	1028	20	26	7.5	25.5	--	8.9
22...	1028	1028	25	26	7.5	25.0	--	8.5
22...	1028	1028	30	26	7.6	24.0	--	9.1
22...	1028	1028	35	26	8.0	21.5	--	9.9
22...	1028	1028	40	26	7.7	19.0	--	9.7
22...	1028	1028	45	25	7.3	16.5	--	8.9
22...	1028	1028	50	25	7.1	14.5	--	8.5
22...	1028	1028	55	25	7.0	12.5	--	8.2
22...	1028	1028	60	25	7.0	12.0	--	8.0
22...	1028	1028	70	25	7.0	11.0	--	8.0
22...	1028	1028	80	25	7.0	10.0	--	8.0

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)
JUN								
22...	1028	1028	90	25	7.0	9.0	--	8.0
22...	1028	1028	100	25	6.9	8.0	--	7.7
22...	1028	1028	110	25	6.9	7.5	--	7.2
22...	1028	1028	120	25	6.9	7.5	--	7.1
22...	1028	1028	130	25	6.8	7.5	--	7.0
22...	1028	1028	140	26	6.8	7.5	--	6.9
22...	1028	1028	150	25	6.8	7.5	--	6.8
29...	810	1028	.0	--	--	--	--	--
29...	810	--	--	--	--	--	168	--
29...	810	810	10	<50	7.6	26.5	--	7.8
29...	810	1028	25	37	--	--	--	--
29...	810	810	25	<50	7.1	26.5	--	8.7
29...	810	1028	100	42	--	--	--	--
29...	810	810	100	65	7.1	8.5	--	7.7
29...	810	810	125	--	--	--	--	7.9
AUG								
23...	1028	--	--	--	--	--	204	--
23...	1028	1028	.0	27	7.7	27.0	--	7.6
23...	1028	1028	10	27	7.7	27.0	--	7.6
23...	1028	1028	20	27	7.6	27.0	--	7.6
23...	1028	1028	30	26	7.5	26.0	--	8.1
23...	1028	1028	35	26	7.4	25.0	--	8.9
23...	1028	1028	40	25	7.3	23.0	--	8.0
23...	1028	1028	45	25	7.1	19.0	--	7.0
23...	1028	1028	50	25	6.9	17.5	--	6.1
23...	1028	1028	55	26	6.8	16.5	--	5.6
23...	1028	1028	60	26	6.8	16.0	--	5.2
23...	1028	1028	65	27	6.8	15.0	--	5.1
23...	1028	1028	70	27	6.8	14.5	--	5.0
23...	1028	1028	75	27	6.7	13.5	--	5.3
23...	1028	1028	80	27	6.7	12.5	--	5.4
23...	1028	1028	90	27	6.8	11.5	--	5.7
23...	1028	1028	100	27	6.8	10.5	--	5.8
23...	1028	1028	110	28	6.8	9.5	--	5.7
23...	1028	1028	120	29	6.7	9.0	--	4.7
23...	1028	1028	130	30	6.7	8.5	--	3.7
23...	1028	1028	140	30	6.6	8.0	--	3.4
23...	1028	1028	145	31	6.6	8.0	--	3.2
SEP								
21...	1028	--	--	--	--	--	162	--
21...	1028	1028	.0	24	7.6	25.0	--	8.8
21...	1028	1028	10	24	7.6	25.0	--	8.8
21...	1028	1028	20	25	7.6	25.0	--	8.8
21...	1028	1028	30	25	7.5	25.0	--	8.7
21...	1028	1028	35	25	7.2	24.0	--	8.3
21...	1028	1028	40	24	6.7	21.0	--	6.6
21...	1028	1028	45	24	6.6	18.5	--	5.4
21...	1028	1028	50	25	6.5	17.5	--	4.7
21...	1028	1028	55	25	6.5	16.5	--	4.4
21...	1028	1028	60	26	6.4	15.5	--	4.3
21...	1028	1028	65	26	6.4	14.5	--	4.4
21...	1028	1028	70	26	6.4	13.5	--	4.6
21...	1028	1028	80	26	6.4	12.0	--	5.1
21...	1028	1028	90	26	6.5	11.0	--	5.3
21...	1028	1028	100	26	6.5	10.0	--	5.2
21...	1028	1028	110	27	6.5	9.5	--	4.7
21...	1028	1028	120	27	6.4	9.0	--	3.4
21...	1028	1028	130	28	6.3	8.5	--	2.2
21...	1028	1028	140	28	6.3	8.5	--	1.5
21...	1028	1028	145	29	6.2	8.5	--	1.5

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, AR

LOCATION.--Lat 35°31'02", long 91°59'50", in NE¼ sec.7, T.10 N., R.9 W., Cleburne County, on right bank 1,600 ft (488 m) downstream from Greers Ferry Dam, 3.0 mi (4.8 km) northeast of Heber Springs, and at mile 78.8 (126.8 km).

DRAINAGE AREA.--1,153 mi^2 (2,986 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1927 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 261.78 ft (79.791 m) above mean sea level. Prior to Dec. 15, 1938, nonrecording gage at site 2.2 mi (3.5 km) upstream at datum 8.97 ft (2.734 m) higher and Dec. 15, 1938, to Sept. 30, 1960, water-stage recorder at site 1.8 mi (2.9 km) upstream at datum 10.03 ft (3.057 m) higher.

REMARKS.--Records good. Flow completely regulated since Mar. 30, 1962, by Greers Ferry Lake (see station 07075900). Some regulation Oct. 1, 1960, to Feb. 28, 1962, by construction of Greers Ferry Dam. A fish hatchery diverts about 20 ft^3/s (0.57 m^3/s) from Greers Ferry Lake and returns an equal amount below the station.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--49 years, 1,761 ft^3/s (49.9 m^3/s), 1,276,000 acre-ft/yr (1,570 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 117,000 ft^3/s (3,310 m^3/s) Jan. 25, 1949, gage height, 46.53 ft (14.182 m) in gage well and 46.9 ft (14.30 m) from outside gage, site and datum then in use; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1927, that of Jan. 25, 1949. Flood in April 1927 reached a stage of 44.0 ft (13.41 m), original site and datum, discharge, 78,900 ft^3/s (2,230 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,710 ft^3/s (247 m^3/s) Oct. 8, gage height, 16.51 ft (5.032 m); minimum daily, 27 ft^3/s (0.76 m^3/s) Jan. 20, 21.

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	2130	43	1550	56	52	1970	956	52	3100	1570	919	1290
2	3120	43	403	165	374	2340	1550	53	2730	133	473	865
3	5110	278	57	53	510	2700	63	720	2760	223	234	2390
4	561	1290	50	51	514	3710	46	63	2370	532	642	732
5	194	1300	324	1690	801	3140	4190	59	201	532	1440	1210
6	3340	44	61	281	1260	601	4170	1180	173	3140	2440	954
7	4170	43	47	630	62	52	4050	1510	1220	2940	4380	3000
8	4300	43	47	439	53	3970	4050	52	2050	3110	1080	2760
9	4560	43	393	621	499	622	4320	53	2120	3310	3540	1170
10	1750	659	52	60	57	484	1170	45	2570	4650	3070	170
11	670	56	52	52	56	702	556	38	2740	4750	2920	201
12	788	536	46	53	336	1110	2300	44	2580	2080	2990	205
13	3370	658	46	386	225	217	2140	51	698	2100	3020	3080
14	3120	278	45	338	55	57	48	786	2550	3100	1850	1010
15	1620	47	387	60	55	2160	174	62	1820	2930	551	814
16	2230	45	53	304	743	1300	162	52	1440	2710	4040	1960
17	3450	764	777	60	595	1510	51	1220	1940	1550	3540	2400
18	71	36	446	53	1000	66	44	56	370	1530	3440	253
19	43	350	2420	345	464	48	214	53	154	2980	3450	179
20	3830	1460	68	27	495	46	46	53	173	2980	3510	241
21	1570	2000	48	27	55	239	49	1160	353	2980	3010	252
22	57	247	1600	379	55	733	1010	365	224	2980	2190	213
23	43	35	1700	57	1660	1100	58	324	314	2820	3720	804
24	44	4400	59	52	1730	500	48	181	1510	2690	3220	366
25	43	4970	52	74	1640	2970	51	957	1590	1490	2740	581
26	44	4690	145	365	604	3000	386	502	1730	3340	3290	336
27	48	1280	51	450	1010	69	833	357	830	2640	3990	1900
28	47	1660	52	461	1510	55	549	2830	2220	3580	2640	3650
29	313	73	369	510	193	1450	64	251	1450	2900	464	3790
30	62	385	58	515	---	1660	52	234	1920	2650	2680	3770
31	482	---	390	61	---	2470	---	249	---	2470	1220	---
TOTAL	51180	27746	11848	8675	16663	41051	33390	13612	45900	77390	76693	40546
MEAN	1651	925	382	280	575	1324	1113	439	1530	2496	2474	1352
MAX	5110	4970	2420	1690	1730	3970	4320	2830	3100	4750	4380	3790
MIN	43	35	45	27	52	46	44	38	154	133	234	170
AC-FT	101500	55030	23500	17210	33050	81420	66230	27000	91040	153500	152100	80420

CAL YR 1975 TOTAL 836247 MEAN 2291 MAX 7940 MIN 35 AC-FT 1659000
WTR YR 1976 TOTAL 444694 MEAN 1215 MAX 5110 MIN 27 AC-FT 882100

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, AR--Continued

PERIOD OF RECORD.--November 1949 to September 1952, water years 1955-71, December 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1949 to September 1952, water years 1968-71.

REMARKS.--Flow regulated by Greers Ferry Lake.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)		SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)
NOV													
03...	810	1028	800		42	--	--	--	--	--	1.2	8	--
03...	810	810		--	>50	7.3	11.0	0	0	7.4	--	--	28
17...	1028	1028	3046		40	6.9	11.0	--	--	5.4	--	--	--
DEC													
15...	1028	1028	45		43	5.9	9.0	--	--	9.0	--	--	--
JAN													
19...	1028	1028	26		37	6.8	7.0	--	--	11.0	--	--	--
FEB													
23...	1028	1028	3520		36	7.4	8.0	--	--	10.6	--	--	--
MAR													
15...	810	1028	445		37	--	--	--	--	--	.8	0	--
15...	810	810		--	50	6.1	8.5	0	5	10.6	--	--	26
22...	1028	1028	1972		35	7.8	10.0	--	--	8.2	--	--	--
APR													
19...	1028	1028	436		39	7.2	8.0	--	--	8.4	--	--	--
MAY													
25...	1028	1028	148		39	7.4	9.5	--	--	11.0	--	--	--
JUN													
22...	1028	1028	655		26	7.7	11.0	--	--	11.0	--	--	--
28...	810	1028	7450		42	--	--	--	--	--	.1	B350	--
28...	810	810		--	<50	7.4	10.5	20	10	7.2	--	--	14
AUG													
23...	1028	1028	7170		24	6.8	10.5	--	--	5.6	--	--	--
SEP													
21...	1028	1028	43		29	6.8	12.0	--	--	10.6	--	--	--

DATE	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)
NOV												
03...	--	.7	--	3.4	1.6	.16	--	--	.23	.39	1.7	.02
03...	12	--	12	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
19...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
15...	--	.8	--	3.6	1.2	.15	.02	.12	.14	.29	1.3	.01
15...	11	--	12	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	1.1	--	3.3	1.7	.15	.02	.08	.10	.25	1.1	.01
28...	12	--	10	--	--	--	--	--	--	--	--	--
AUG												
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
NOV											
03...	.01	90	0	6	130	100	<100	230	.1	50	90
03...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	.00	60	0	0	140	140	<100	40	.0	<50	130
15...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
22...	--	--	--	--	--	--	--	--	--	--	--
28...	.00	60	0	30	140	110	24	70	.1	23	120
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--

07076200 LITTLE RED RIVER NEAR WILBURN, AR

LOCATION.--Lat 35°29'33", long 91°58'21", in SW¼SW¼ sec.16, T.10 N., R.9 W., Cleburne County, temperature recorder just upstream from bridge on State Highway 110, 4.0 mi (6.4 km) southwest of Wilburn.

DRAINAGE AREA.--1,196 mi² (3,098 km²).

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1968 to current year.

INSTRUMENTATION.--Temperature recorder since April 1968.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Water-quality records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark. Temperature records furnished by Arkansas Game and Fish Commission, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 19.5°C June 7, 1971; minimum, -0.5°C Dec. 26, 1975, Jan. 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 17.0°C Sept. 20, 21, 23; minimum, -0.5°C Dec. 26, Jan. 19-21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
20...	9827	9827	6810	43	6.7	22.0	17.0	5	6	5.6
NOV										
18...	9827	9827	20	36	7.1	19.0	11.0	5	4	9.2
DEC										
01...	9827	9827	--	--	--	--	--	--	--	--
16...	9827	9827	20	37	7.0	3.0	4.0	10	5	9.9
JAN										
26...	9827	9827	20	33	6.8	4.0	7.0	40	3	11.4
FEB										
23...	9827	9827	20	39	6.9	3.0	8.0	5	6	10.8
MAR										
15...	9827	9827	7150	38	7.1	19.0	11.0	5	2	10.9
APR										
20...	9827	9827	20	48	7.2	24.0	16.0	5	4	10.9
MAY										
18...	9827	9827	20	42	7.0	25.0	15.0	10	2	10.5
JUN										
15...	9827	9827	3530	42	7.0	34.0	13.0	5	<25	10.3
JUL										
20...	9827	9827	7070	47	6.8	32.0	12.0	5	2	8.1
AUG										
17...	9827	9827	7250	46	6.9	31.0	27.0	5	3	7.4
SEP										
21...	9827	9827	20	71	7.1	24.0	17.0	10	3	9.1

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
20...	58	.6	60	<4	28	50	38	5.0	12	9.0
NOV										
18...	83	.8	130	20	35	--	--	--	--	--
DEC										
01...	--	--	--	--	--	--	--	--	--	--
16...	75	.7	170	130	40	--	--	--	--	--
JAN										
26...	94	2.0	250	470	380	14	5	3.0	8	1.0
FEB										
23...	91	.9	45	10	20	--	--	--	--	--
MAR										
15...	98	1.1	15	<5	10	--	--	--	--	--
APR										
20...	109	1.7	170	150	120	16	0	6.0	14	<1.0
MAY										
18...	103	1.5	7	15	--	--	--	--	--	--
JUN										
15...	97	1.0	30	4	--	--	--	--	--	--
JUL										
20...	75	.9	80	12	50	18	3	5.0	12	1.0
AUG										
17...	91	.7	70	8	--	--	--	--	--	--
SEP										
21...	94	.9	--	--	--	--	--	--	--	--

07076200 LITTLE RED RIVER NEAR WILBURN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
20...	1.7	.6	15	0	12	4.8	4.0	2.5	34	7
NOV										
18...	--	--	--	--	--	--	1.0	3.5	23	3
DEC										
01...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	2.0	3.0	35	1
JAN										
26...	1.6	1.0	11	0	9	2.8	9.0	3.5	27	33
FEB										
23...	--	--	--	--	--	--	1.0	3.5	34	10
MAR										
15...	--	--	--	--	--	--	<1.0	3.0	28	5
APR										
20...	1.8	.1	20	0	16	2.0	4.0	3.0	27	6
MAY										
18...	--	--	--	--	--	--	1.0	3.5	40	9
JUN										
15...	--	--	--	--	--	--	1.0	4.0	38	4
JUL										
20...	1.5	.8	18	0	15	4.6	1.0	3.0	34	5
AUG										
17...	--	--	--	--	--	--	1.0	3.0	33	6
SEP										
21...	--	--	--	--	--	--	10	3.5	44	1

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
20...	41	.28	<.01	<3	<10	0	210	180	220	230
NOV										
18...	26	.32	.02	--	--	--	<10	150	60	100
DEC										
01...	--	--	--	--	--	--	--	--	--	--
16...	36	.27	<.01	--	--	--	<10	310	30	170
JAN										
26...	60	.31	.05	<3	<10	<3	<10	1000	980	410
FEB										
23...	44	.16	<.01	--	--	--	50	120	1200	<27
MAR										
15...	33	.15	<.01	--	--	--	<10	100	90	77
APR										
20...	33	.11	<.01	<3	<10	<3	260	250	30	--
MAY										
18...	31	.15	.02	--	--	--	--	88	20	51
JUN										
15...	34	2.0	.06	--	--	--	<10	91	340	67
JUL										
20...	39	.21	<.01	<3	<10	<3	<10	92	40	81
AUG										
17...	39	.29	.01	--	<10	--	<10	98	460	180
SEP										
21...	43	.14	<.01	--	--	--	20	200	50	120

07076200 LITTLE RED RIVER NEAR WILBURN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
20...	<10	--	--	--	--	--	--	--	--
NOV									
18...	<10	--	--	--	--	--	--	--	--
DEC									
01...	--	.00	.00	.00	.00	.00	.00	.00	<1
16...	<10	--	--	--	--	--	--	--	--
JAN									
26...	20	--	--	--	--	--	--	--	--
FEB									
23...	<10	--	--	--	--	--	--	--	--
MAR									
15...	<10	--	--	--	--	--	--	--	--
APR									
20...	20	--	--	--	--	--	--	--	--
MAY									
18...	10	--	--	--	--	--	--	--	--
JUN									
15...	10	--	--	--	--	--	--	--	--
JUL									
20...	<10	--	--	--	--	--	--	--	--
AUG									
17...	<10	--	--	--	--	--	--	--	--
SEP									
21...	30	--	--	--	--	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	5.5	4.0	4.5	4.0	3.0	3.5	2.0	1.0	1.5
2	---	---	---	6.5	5.5	6.0	4.0	3.0	3.5	2.0	1.5	2.0
3	---	---	---	---	---	---	3.5	3.0	3.0	1.5	0.5	1.5
4	---	---	---	---	---	---	3.5	2.0	3.0	0.5	1.0	0.0
5	---	---	---	5.0	4.5	4.5	4.5	3.0	3.5	---	---	---
6	6.5	6.0	6.5	5.5	4.5	5.0	5.0	4.0	4.5	---	---	---
7	7.0	4.5	6.0	7.0	6.0	6.5	4.0	3.5	3.5	---	---	---
8	5.5	4.5	5.0	8.5	7.0	8.0	3.5	2.0	3.0	---	---	---
9	---	---	---	---	---	---	2.0	1.5	2.0	---	---	---
10	---	---	---	---	---	---	1.5	1.0	1.5	---	---	---
11	---	---	---	---	---	---	1.5	0.5	1.0	0.5	0.0	0.0
12	---	---	---	---	---	---	3.0	1.5	2.0	0.5	-0.5	0.0
13	6.0	4.5	5.5	---	---	---	4.0	3.0	3.5	1.5	0.0	1.0
14	5.0	4.0	4.5	---	---	---	5.0	4.0	4.5	1.5	0.5	1.0
15	5.5	3.5	4.5	3.5	2.0	3.0	5.0	4.0	4.5	0.5	0.0	0.0
16	5.0	4.0	4.5	4.5	3.0	3.5	4.0	2.0	3.0	0.5	0.0	0.0
17	5.5	4.5	5.0	4.0	3.0	3.5	2.0	1.0	1.5	0.0	-0.5	0.0
18	5.5	4.5	5.0	5.0	3.0	4.0	1.0	0.5	1.0	0.0	1.0	0.0
19	---	---	---	4.5	3.5	4.0	3.5	0.0	1.5	0.0	-0.5	-0.5
20	---	---	---	4.5	3.0	3.5	3.0	2.0	2.5	0.0	-0.5	-0.5
21	---	---	---	3.5	3.0	3.0	2.0	1.5	2.0	0.0	-0.5	-0.5
22	---	---	---	---	---	---	3.0	0.5	1.5	0.5	-0.5	0.0
23	---	---	---	---	---	---	3.0	1.5	2.0	1.0	0.0	0.5
24	8.5	6.5	7.5	4.5	1.5	3.0	3.0	1.5	2.0	1.5	0.5	1.0
25	8.5	6.5	7.5	4.0	3.0	3.5	1.5	0.0	1.0	2.0	1.0	1.5
26	7.0	5.5	6.5	4.0	3.5	3.5	0.0	-0.5	-0.5	1.5	0.5	1.0
27	5.5	4.5	5.0	4.0	3.5	3.5	0.5	-0.5	0.0	0.5	-0.5	0.0
28	6.0	5.0	5.5	4.0	3.0	3.5	0.5	-0.5	0.0	0.5	-0.5	0.0
29	7.0	6.0	6.5	5.0	4.0	4.5	1.5	0.5	1.0	1.0	0.0	0.0
30	6.5	5.5	6.0	5.5	4.0	4.5	2.0	1.5	2.0	1.5	0.0	1.0
31	6.0	5.0	5.5	---	---	---	2.0	1.5	2.0	1.5	0.5	1.0
MONTH	---	---	---	---	---	---	5.0	-0.5	2.0	2.0	-0.5	0.5

07076200 LITTLE RED RIVER NEAR WILBURN, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.0	0.5	3.5	2.0	3.0	4.5	2.0	3.5	8.5	6.0	7.0
2	0.5	0.0	0.0	2.0	1.5	2.0	5.0	3.0	4.0	10.5	8.0	9.0
3	0.5	-0.5	0.0	3.0	1.5	2.0	6.0	3.0	4.5	10.5	8.5	9.5
4	0.5	0.0	0.0	3.0	1.5	2.0	---	---	---	8.5	4.5	6.5
5	0.5	0.5	0.5	3.0	1.5	2.0	8.5	3.0	5.5	8.0	6.5	7.0
6	0.5	0.0	0.0	3.0	1.5	2.0	3.5	2.0	3.0	9.5	4.5	7.0
7	0.5	-0.5	0.0	3.0	1.0	2.0	3.5	2.0	3.0	5.5	3.5	4.5
8	0.5	-0.5	0.0	3.5	1.5	2.5	3.5	2.0	3.0	6.0	3.0	4.5
9	1.0	-0.5	0.0	3.5	1.5	2.5	4.0	2.0	3.0	8.5	5.5	7.0
10	2.0	0.5	1.5	3.5	2.0	3.0	5.0	2.0	3.5	8.5	8.0	8.0
11	3.5	2.0	3.0	4.5	3.0	3.5	5.0	3.0	4.0	11.0	8.0	9.5
12	3.0	3.0	3.0	4.5	3.0	3.5	5.0	3.5	4.0	13.0	10.0	11.0
13	4.0	2.0	3.0	3.5	2.0	3.0	3.5	3.0	3.0	13.0	12.5	12.5
14	4.0	3.5	3.5	4.0	3.5	3.5	4.5	3.0	3.5	14.0	8.0	11.0
15	4.5	3.5	4.0	4.5	3.0	3.5	7.0	4.0	5.5	8.0	5.0	6.5
16	5.5	4.0	4.5	3.5	2.0	3.0	9.0	7.0	8.0	8.5	5.5	7.0
17	5.0	2.0	3.5	3.0	1.5	2.0	10.0	8.5	9.0	8.5	5.0	6.5
18	4.0	3.0	3.5	4.0	1.5	3.0	10.5	9.5	10.0	6.0	3.5	4.5
19	3.5	1.5	2.5	5.5	4.0	4.5	11.0	10.0	10.5	9.5	6.0	8.0
20	3.5	1.5	2.5	8.0	5.5	6.5	10.0	9.0	9.5	11.5	9.0	10.5
21	4.0	2.0	3.0	9.0	7.0	8.0	10.5	8.5	9.5	14.0	10.0	12.0
22	4.0	3.5	3.5	7.0	5.5	6.5	12.5	6.0	9.0	10.0	9.5	10.0
23	3.5	1.5	2.5	5.5	3.5	4.5	6.5	4.0	5.5	9.0	5.5	7.0
24	1.5	0.5	1.0	4.0	3.5	3.5	8.0	6.5	7.0	9.0	6.5	8.0
25	2.0	1.0	1.5	4.5	3.0	3.5	8.5	8.0	8.0	10.0	5.5	8.0
26	3.5	1.0	2.0	3.5	2.0	3.0	9.0	7.0	8.0	5.0	4.0	4.5
27	3.5	1.5	2.5	5.5	3.0	4.0	8.5	5.5	7.0	4.5	3.5	4.0
28	4.0	1.5	3.0	6.5	5.0	6.0	---	---	---	6.5	3.5	5.0
29	3.0	1.0	2.0	6.5	4.0	5.5	5.0	4.0	4.5	8.0	3.5	5.5
30	---	---	---	4.0	3.0	3.5	6.5	4.5	5.5	9.5	6.5	8.0
31	---	---	---	4.5	3.0	3.5	---	---	---	10.5	9.0	10.0
MONTH	5.5	-0.5	2.0	9.0	1.0	3.5	12.5	2.0	6.0	14.0	3.0	7.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	3.5	6.5	8.0	4.0	6.0	---	---	---	---	---	---
2	6.0	3.5	4.5	7.0	4.0	5.5	---	---	---	---	---	---
3	6.5	3.5	5.0	10.0	7.0	8.5	---	---	---	---	---	---
4	4.5	3.5	4.0	10.0	6.5	8.5	---	---	---	15.0	12.5	14.0
5	5.5	3.5	4.5	9.5	6.0	8.0	---	---	---	15.5	13.0	14.0
6	9.5	5.5	7.0	8.5	6.0	7.0	---	---	---	14.5	11.5	13.0
7	10.5	5.0	8.0	6.5	4.0	5.5	---	---	---	14.5	11.5	13.0
8	5.0	3.5	4.0	6.0	4.0	5.0	---	---	---	14.0	12.5	13.0
9	6.5	3.5	5.0	6.0	4.0	5.0	---	---	---	14.0	12.5	13.0
10	6.5	3.5	5.0	5.0	4.0	4.5	---	---	---	14.5	12.5	13.5
11	6.5	3.5	5.0	5.5	4.0	4.5	13.5	10.5	12.0	16.0	14.0	15.0
12	6.0	3.5	4.5	6.0	4.0	5.0	12.5	10.0	11.0	16.0	15.0	15.5
13	6.0	3.5	4.5	6.0	4.5	5.0	12.5	10.0	11.0	16.5	12.5	14.5
14	8.0	4.5	6.0	6.5	4.5	5.5	13.0	10.0	11.5	15.5	12.5	14.0
15	8.0	3.5	5.5	6.0	4.0	5.0	14.5	10.5	12.5	15.0	12.5	14.0
16	8.0	4.0	6.0	5.5	4.0	4.5	14.5	11.0	13.0	14.5	12.5	13.5
17	6.5	3.5	5.0	8.0	4.0	6.0	13.0	10.5	11.5	14.0	12.5	13.0
18	6.0	4.0	5.0	7.0	4.0	5.5	13.0	10.5	11.5	14.5	12.5	13.5
19	8.5	5.0	6.5	6.5	4.0	5.5	13.0	10.5	11.5	15.5	14.5	15.0
20	9.5	8.0	8.5	6.5	4.0	5.5	13.0	10.5	11.5	17.0	15.5	16.5
21	11.0	9.0	10.0	6.5	4.5	5.5	13.5	10.5	12.0	17.0	15.5	16.5
22	10.5	8.0	9.0	6.5	4.0	5.5	13.5	10.5	12.0	16.5	15.0	16.0
23	10.0	8.0	9.0	6.0	4.5	5.5	12.5	10.5	11.5	17.0	15.5	16.5
24	10.5	4.5	7.5	6.5	4.5	5.5	---	---	---	16.5	12.5	15.0
25	12.5	4.5	8.5	7.0	4.0	5.5	---	---	---	15.5	14.0	14.0
26	10.5	4.5	7.5	6.5	4.0	5.5	---	---	---	15.5	14.0	14.0
27	10.0	4.5	7.0	6.5	4.5	5.5	---	---	---	14.5	14.0	14.0
28	8.5	4.0	6.0	6.5	4.5	5.5	---	---	---	15.0	11.5	13.5
29	9.0	4.0	6.5	---	---	---	---	---	---	12.5	11.5	12.0
30	9.0	4.0	6.5	---	---	---	---	---	---	13.0	12.5	12.5
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	12.5	3.5	6.5	10.0	4.0	6.0	---	---	---	17.0	11.5	14.0

07076500 LITTLE RED RIVER AT PANGBURN, AR

LOCATION.--Lat 35°26'30", long 91°50'09", in NE¼ sec.3, T.9 N., R.8 W., White County, temperature recorder on right bank, 0.6 mi (1.0 km) downstream from bridge on secondary road, 1.0 mi (1.6 km) north of Pangburn, 8.6 mi (13.8 km) upstream from Fourteen Mile Creek, and 22.1 mi (35.6 km) downstream from Greers Ferry Dam.

DRAINAGE AREA.--1,235 mi² (3,199 km²).

PERIOD OF RECORD.--October 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1966 to current year.

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Records furnished by Arkansas Game and Fish Commission, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 22.0°C June 10, 1971; minimum, 1.5°C Jan. 9, 10, 1976.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	9.5	10.0	11.5	10.5	11.0	9.0	7.0	8.0	6.5	5.5	6.0
2	10.0	9.0	9.5	12.5	11.0	11.5	8.0	6.5	7.0	6.5	6.0	6.5
3	9.5	9.0	9.0	---	---	---	8.0	6.5	7.0	6.0	5.5	6.0
4	10.0	8.5	9.0	---	---	---	8.0	6.5	7.0	5.0	4.0	4.5
5	11.0	9.5	10.5	---	---	---	---	---	---	4.0	2.0	3.0
6	13.0	10.5	11.5	---	---	---	---	---	---	5.5	3.0	4.0
7	11.5	9.5	10.5	---	---	---	---	---	---	5.5	3.5	4.5
8	10.5	9.5	10.0	---	---	---	8.5	7.0	8.0	3.5	2.0	---
9	10.5	9.5	10.0	---	---	---	7.0	6.0	6.5	2.0	1.5	2.0
10	10.5	9.5	10.0	13.5	12.5	13.0	6.0	5.5	6.0	3.5	1.5	2.5
11	11.0	10.0	10.5	13.0	11.5	12.5	6.0	5.0	5.5	---	---	---
12	13.0	10.5	11.5	13.0	10.5	11.5	8.0	6.5	7.0	---	---	---
13	13.0	10.5	11.5	10.5	8.5	9.5	8.5	7.0	8.0	5.5	4.0	4.5
14	10.5	9.5	10.0	8.5	7.0	8.0	9.5	8.5	9.0	5.5	4.5	5.0
15	10.5	9.5	10.0	8.0	6.5	7.0	10.0	8.0	9.0	5.0	4.5	4.5
16	10.5	9.5	10.0	8.5	6.5	7.5	8.5	7.0	8.0	5.0	4.0	4.5
17	10.0	9.0	9.5	9.0	7.0	8.0	7.0	5.5	6.5	4.5	3.5	4.0
18	10.0	9.0	9.5	9.0	8.5	8.5	5.5	4.0	4.5	4.0	3.5	3.5
19	10.0	8.5	9.0	9.5	8.0	8.5	---	---	---	4.5	3.5	4.0
20	11.0	9.0	10.0	9.5	9.0	9.0	---	---	---	4.5	4.0	4.0
21	10.5	9.0	10.0	9.0	8.0	8.5	---	---	---	4.5	3.5	4.0
22	10.5	9.5	10.0	8.5	8.0	8.0	5.5	5.0	5.5	4.5	3.5	4.0
23	11.0	10.0	10.5	8.0	7.0	7.5	7.0	5.5	6.5	4.5	3.5	4.0
24	13.0	11.0	12.0	8.5	6.0	7.0	7.0	6.0	6.5	5.5	4.5	5.0
25	13.0	11.0	12.0	8.5	8.0	8.0	6.0	4.5	5.5	6.5	5.5	6.0
26	11.5	10.0	11.0	8.5	8.0	8.0	5.0	4.5	4.5	6.0	5.5	6.0
27	11.0	10.0	10.5	8.5	8.0	8.0	---	---	---	5.5	4.5	5.0
28	12.5	11.0	11.5	8.0	7.0	7.5	---	---	---	4.5	4.0	4.0
29	13.0	12.5	12.5	10.0	8.0	9.0	6.0	5.0	5.5	5.0	4.0	4.5
30	12.5	11.0	11.5	10.0	9.0	9.5	6.5	6.0	6.5	---	---	---
31	11.5	10.5	11.0	---	---	---	6.5	6.0	6.5	6.0	5.0	5.5
MONTH	13.0	8.5	10.5	---	---	---	---	---	---	6.5	1.5	4.5

07076500 LITTLE RED RIVER AT PANGBURN, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	4.5	5.0	9.0	8.5	8.5	---	---	---	13.5	11.5	12.5
2	5.0	4.0	4.5	8.5	7.0	8.0	---	---	---	15.0	11.5	13.5
3	5.0	4.0	4.5	8.0	6.5	7.0	---	---	---	15.5	13.5	14.5
4	5.0	4.5	4.5	8.0	6.5	7.0	---	---	---	15.5	14.0	15.0
5	5.5	4.5	5.0	7.0	6.5	7.0	---	---	---	15.0	14.0	14.5
6	5.0	4.5	4.5	8.5	6.5	7.5	---	---	---	16.0	14.5	15.5
7	5.0	4.0	4.5	9.0	7.0	8.0	---	---	---	15.5	11.0	13.5
8	5.0	3.5	4.0	8.5	6.5	7.5	---	---	---	11.5	9.5	10.5
9	5.0	4.0	4.5	8.0	6.5	7.0	---	---	---	13.5	10.0	11.5
10	6.5	5.0	6.0	9.0	7.0	8.0	---	---	---	13.0	12.5	12.5
11	8.0	6.5	7.0	9.5	8.0	8.5	---	---	---	15.5	12.5	14.0
12	7.0	6.5	7.0	10.5	9.0	10.0	---	---	---	18.0	14.5	16.0
13	9.0	7.0	8.0	9.5	8.5	9.0	---	---	---	17.0	16.5	17.0
14	9.0	8.5	8.5	---	---	---	---	---	---	18.5	16.0	17.0
15	10.0	9.0	9.5	---	---	---	---	---	---	17.0	15.5	16.5
16	10.5	10.0	10.5	---	---	---	---	---	---	16.5	14.5	15.5
17	11.0	10.0	10.5	---	---	---	---	---	---	---	---	---
18	10.5	9.5	10.0	---	---	---	---	---	---	---	---	---
19	9.5	8.0	8.5	---	---	---	---	---	---	---	---	---
20	9.0	8.0	8.5	---	---	---	---	---	---	16.5	13.5	15.0
21	---	---	---	---	---	---	---	---	---	18.0	15.0	16.5
22	---	---	---	---	---	---	18.0	15.5	16.5	17.0	14.5	16.0
23	9.0	7.0	8.0	---	---	---	17.0	14.5	16.0	14.5	13.5	14.0
24	8.0	6.5	7.0	---	---	---	14.0	14.0	14.0	15.0	14.0	14.5
25	8.0	6.5	7.0	---	---	---	14.0	13.0	13.5	16.5	14.5	15.5
26	8.0	6.5	7.0	---	---	---	14.0	12.5	13.0	---	---	---
27	9.0	7.0	8.0	---	---	---	14.5	13.0	13.5	---	---	---
28	8.5	7.0	8.0	---	---	---	14.0	11.5	13.0	---	---	---
29	8.5	8.0	8.0	---	---	---	11.5	10.5	11.0	11.0	9.0	10.0
30	---	---	---	---	---	---	12.5	10.5	11.5	14.0	11.0	12.5
31	---	---	---	---	---	---	---	---	---	16.0	14.0	15.0
MONTH	11.0	3.5	7.0	---	---	---	---	---	---	18.5	9.0	14.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	12.5	14.5	12.5	9.5	11.0	11.5	10.0	11.0	13.0	11.5	12.5
2	11.5	9.5	10.5	11.5	10.0	11.0	12.5	11.0	11.5	12.5	11.0	11.5
3	11.0	9.0	10.0	14.5	11.5	13.0	14.5	11.0	13.0	11.5	10.5	11.0
4	---	---	---	15.5	14.0	15.0	15.5	13.0	14.0	11.5	10.0	11.0
5	---	---	---	17.0	15.5	16.5	16.5	15.0	16.0	14.5	11.5	13.0
6	---	---	---	16.5	11.0	14.0	---	---	---	14.0	12.5	13.0
7	---	---	---	11.5	9.5	10.5	---	---	---	13.5	12.5	13.0
8	---	---	---	---	---	---	---	---	---	12.5	10.5	11.5
9	---	---	---	---	---	---	---	---	---	11.0	10.0	10.5
10	---	---	---	---	---	---	11.5	9.5	10.5	12.5	11.0	11.5
11	---	---	---	---	---	---	12.5	9.5	11.0	13.5	11.0	12.5
12	11.0	9.0	10.0	11.0	9.0	10.0	11.5	9.5	10.5	---	---	---
13	11.5	9.0	10.5	11.5	9.5	10.5	11.5	9.5	10.5	---	---	---
14	15.0	11.0	13.0	11.5	9.5	10.5	11.5	9.5	10.5	---	---	---
15	13.5	9.5	11.5	11.0	9.0	10.0	12.5	10.5	11.5	13.5	11.5	12.5
16	12.5	10.0	11.0	11.0	9.5	10.5	15.0	11.5	13.5	13.5	12.5	13.0
17	12.5	10.5	11.5	12.5	9.5	11.0	11.5	10.0	11.0	12.5	10.5	11.5
18	11.5	9.5	10.5	12.5	10.0	11.0	12.5	10.0	11.0	11.5	10.0	11.0
19	13.5	10.5	12.0	12.5	10.0	11.0	11.5	9.5	10.5	13.0	11.5	12.5
20	15.5	12.5	14.0	11.5	9.5	10.5	11.5	9.5	10.5	14.5	13.0	14.0
21	17.0	14.0	15.5	11.5	9.5	10.5	11.5	9.5	10.5	16.0	14.0	15.0
22	18.0	16.0	17.0	11.5	9.5	10.5	11.0	10.0	10.5	16.5	14.5	15.5
23	18.0	15.5	16.5	11.5	9.5	10.5	11.0	10.0	10.5	16.5	15.0	16.0
24	16.0	15.0	15.5	12.5	9.5	11.0	11.0	9.5	10.5	16.0	14.0	15.0
25	16.0	13.0	14.5	11.5	9.5	10.5	11.0	9.5	10.5	15.0	13.5	14.0
26	16.0	11.5	14.0	12.5	10.0	11.0	11.5	10.0	11.0	---	---	---
27	14.0	10.5	12.5	11.5	9.5	10.5	11.0	10.0	10.5	---	---	---
28	14.0	12.5	13.0	12.5	10.0	11.0	11.5	10.0	11.0	---	---	---
29	13.0	9.5	11.0	11.0	9.5	10.5	11.5	10.5	11.0	---	---	---
30	13.0	10.5	11.5	11.5	9.5	10.5	14.5	11.0	13.0	---	---	---
31	---	---	---	12.5	9.5	11.0	12.5	10.5	11.0	---	---	---
MONTH	---	---	---	17.0	9.0	11.0	16.5	9.5	11.5	---	---	---
YEAR	18.5	1.5	10.0									

07076620 LITTLE RED RIVER NEAR SEARCY, AR

LOCATION.--Lat 35°16'57", long 91°43'05", in SE¼ sec.26, T.8 N., R.7 W., White County, temperature recorder on right bank near waterworks tower, 2.5 mi (4.0 km) northeast of Searcy, 12.8 mi (20.6 km) downstream from Ten Mile Creek, and 23.4 mi (37.7 km) upstream from Big Mingo Creek.

DRAINAGE AREA.--1,648 mi² (4,268 km²).

PERIOD OF RECORD. October 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1966 to current year.

INSTRUMENTATION.--Temperature recorder since October 1966.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Records furnished by Arkansas Game and Fish Commission, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C June 30, 1969, June 13, 1971; minimum, 0.0°C Jan 18, 19, 1967.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C May 21; minimum, 0.5°C Jan 9, 10.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	11.5	14.5	13.5	13.0	13.0	9.5	7.0	8.5	7.0	6.5	7.0
2	11.5	11.0	11.5	13.5	13.0	13.0	7.0	6.0	7.0	8.0	7.0	7.5
3	11.0	10.5	11.0	14.0	13.5	14.0	7.0	6.5	6.5	7.0	5.5	6.5
4	11.0	10.0	10.5	14.0	13.5	14.0	8.0	6.5	7.0	5.5	3.5	4.5
5	10.5	9.5	10.0	14.5	14.0	14.0	8.5	7.0	8.0	3.5	2.0	3.0
6	11.5	10.5	11.0	14.5	13.5	14.0	10.0	8.5	9.0	3.0	1.5	2.0
7	13.0	11.0	12.0	14.5	13.5	14.0	10.0	9.0	9.5	3.5	3.0	3.0
8	14.0	11.0	12.5	15.5	14.0	15.0	9.0	8.0	8.5	3.0	1.0	2.0
9	11.0	10.5	11.0	15.5	15.0	15.5	8.0	7.0	7.5	1.0	0.5	1.0
10	11.5	10.5	11.0	15.5	14.5	15.0	7.0	6.0	6.5	1.0	0.5	1.0
11	13.0	11.5	12.5	15.0	14.0	14.5	6.5	5.5	6.0	---	---	---
12	14.5	13.0	14.0	14.5	13.0	14.0	7.0	6.5	7.0	---	---	---
13	15.0	14.0	14.5	13.0	11.5	12.5	9.0	7.0	8.0	---	---	---
14	14.5	11.5	13.0	11.5	9.5	10.5	10.0	9.0	9.5	---	---	---
15	11.5	11.0	11.5	9.5	9.0	9.0	10.5	10.0	10.5	---	---	---
16	11.5	11.5	11.5	9.0	8.5	8.5	10.0	8.0	9.0	4.5	4.0	4.0
17	11.5	11.0	11.5	9.5	8.5	9.0	8.0	6.0	7.0	4.0	3.5	3.5
18	11.0	10.5	11.0	9.5	8.5	9.0	6.0	4.0	5.0	3.5	3.0	3.0
19	11.0	10.0	10.5	10.0	9.0	9.5	4.0	3.5	3.5	4.0	3.5	3.5
20	12.0	10.5	11.5	10.0	9.0	9.5	6.0	3.5	4.5	4.5	3.5	4.0
21	11.0	10.5	11.0	9.0	8.5	8.5	6.0	6.0	6.0	4.5	4.0	4.0
22	11.5	10.5	11.0	8.5	8.0	8.0	6.0	5.0	5.5	4.5	3.5	4.0
23	13.0	11.5	12.0	8.0	7.0	7.5	5.0	4.5	4.5	5.0	3.5	4.0
24	15.0	13.0	14.0	8.0	7.0	7.5	6.5	5.0	6.0	5.5	4.5	5.0
25	14.0	13.0	13.5	9.0	6.5	8.0	6.5	4.5	5.5	7.0	5.5	6.5
26	13.5	12.0	13.0	9.0	8.0	8.5	4.5	3.0	3.5	7.0	6.0	6.5
27	13.0	11.5	12.5	8.5	8.0	8.0	4.5	3.5	4.0	6.0	5.0	5.5
28	14.5	12.0	13.5	8.0	7.0	7.5	6.0	5.0	5.5	5.0	4.5	4.5
29	14.0	13.5	14.0	9.5	8.0	7.5	7.0	6.0	6.5	5.0	4.5	4.5
30	14.5	13.0	14.0	10.0	9.5	10.0	7.0	7.0	7.0	5.5	4.5	5.0
31	13.0	12.0	12.5	---	---	---	7.0	7.0	7.0	5.5	5.5	5.5
MONTH	15.0	9.5	12.0	15.5	6.5	11.0	10.5	3.0	6.5	8.0	0.5	4.5

07076620 LITTLE RED RIVER NEAR SEARCY, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	5.0	5.5	11.0	10.0	10.5	11.0	10.5	11.0	15.0	14.5	15.0
2	5.5	5.0	5.5	11.0	10.5	11.0	12.0	10.5	11.5	16.0	14.5	15.5
3	5.5	4.5	5.0	10.5	9.5	10.0	13.5	11.5	12.5	---	---	---
4	5.0	4.5	4.5	10.5	10.0	10.5	14.5	13.0	14.0	---	---	---
5	5.5	5.0	5.5	10.5	9.5	10.5	15.0	13.5	14.0	---	---	---
6	5.0	4.5	4.5	10.0	8.5	9.0	14.5	10.0	12.5	---	---	---
7	4.5	4.0	4.0	10.0	9.0	9.5	10.5	9.5	10.0	---	---	---
8	5.0	4.0	4.5	10.0	9.5	10.0	10.0	9.5	10.0	18.0	14.0	16.0
9	5.5	4.0	4.5	9.5	8.5	9.0	10.0	9.5	10.0	15.0	13.5	14.0
10	7.0	5.0	6.0	10.0	9.0	9.5	10.0	9.0	9.5	15.0	14.5	15.0
11	8.5	7.0	8.0	11.0	10.0	10.5	11.5	10.0	11.0	20.0	14.5	17.0
12	8.5	8.0	8.0	13.0	11.0	12.0	13.0	11.5	12.5	20.5	16.5	19.0
13	9.5	8.5	9.0	12.0	11.5	12.0	13.0	11.0	12.0	20.0	18.0	19.0
14	10.0	9.0	9.5	11.5	10.5	11.0	11.0	10.0	10.5	21.0	18.0	19.5
15	11.0	10.0	10.5	11.0	10.5	11.0	13.0	10.0	11.5	19.5	18.5	19.0
16	12.0	10.5	11.5	11.0	10.0	10.5	14.5	13.0	14.0	20.5	19.0	20.0
17	13.0	12.0	12.5	10.0	9.5	10.0	16.5	14.5	15.5	20.0	18.5	19.5
18	13.0	11.5	12.5	10.5	9.5	10.0	18.5	16.0	17.0	18.5	17.0	18.0
19	11.5	10.0	11.0	11.5	10.5	11.0	19.0	18.5	19.0	18.5	16.0	17.0
20	10.5	10.0	10.5	13.5	11.5	12.5	19.0	18.5	19.0	21.5	17.0	19.5
21	11.5	10.5	11.0	14.5	13.5	14.0	19.5	18.5	19.0	23.5	18.0	20.5
22	11.0	9.5	10.5	14.0	13.0	13.5	20.0	18.0	19.0	21.0	19.5	20.5
23	9.5	9.0	9.0	14.0	13.0	13.5	20.0	19.0	19.5	22.0	20.5	21.5
24	9.5	8.5	9.0	13.5	13.0	13.0	20.0	19.5	20.0	22.0	20.5	21.5
25	9.0	8.5	8.5	13.0	12.0	12.5	19.5	18.0	19.0	21.5	20.0	21.0
26	10.0	9.0	9.5	12.0	10.0	11.0	18.0	16.5	17.0	21.0	18.5	20.0
27	10.5	9.5	10.0	11.0	10.0	10.5	17.0	16.0	16.5	18.5	16.5	17.5
28	10.5	10.0	10.5	12.0	11.0	11.5	16.5	15.5	16.0	16.5	15.5	16.0
29	10.5	10.0	10.5	13.5	12.0	13.0	15.5	15.0	15.5	15.5	12.0	14.0
30	---	---	---	13.5	13.0	13.0	14.5	14.5	14.0	14.5	12.0	13.5
31	---	---	---	13.0	11.0	12.0	---	---	---	18.0	14.5	16.0
MONTH	13.0	4.0	8.5	14.5	8.5	11.0	20.0	9.0	14.5	23.5	12.0	18.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	17.0	18.5	18.0	15.5	16.5	13.5	13.0	13.0	14.0	13.5	14.0
2	19.5	13.0	16.0	15.5	14.5	15.0	13.5	12.0	13.0	14.5	14.0	14.0
3	13.5	12.0	13.0	17.0	15.5	16.5	14.5	13.5	14.0	14.5	14.0	14.0
4	13.0	11.0	12.0	19.0	17.0	18.0	16.5	14.0	15.5	14.0	12.0	13.0
5	11.0	10.5	11.0	20.5	18.5	19.5	14.0	12.0	13.0	14.0	12.0	13.0
6	14.0	10.5	12.5	21.5	20.0	21.0	20.0	12.0	16.0	16.0	14.0	15.0
7	17.0	14.0	15.5	---	---	---	18.5	13.5	16.0	17.0	16.0	16.5
8	18.5	16.0	17.0	---	---	---	13.5	11.5	12.5	16.0	13.0	14.5
9	18.5	14.0	16.0	---	---	---	13.5	11.0	12.5	13.0	12.0	12.5
10	14.0	13.0	13.5	12.0	12.0	12.5	14.5	11.5	13.0	13.0	12.0	12.5
11	13.5	12.0	13.0	12.0	11.0	11.5	13.0	11.5	12.5	14.5	13.0	14.0
12	13.5	12.0	13.0	11.5	11.0	11.5	13.5	12.0	13.0	15.5	14.5	15.0
13	13.5	11.5	12.5	14.5	11.5	13.0	13.5	12.0	13.0	18.5	15.0	16.5
14	15.5	13.0	14.0	14.5	13.5	14.0	13.0	12.0	12.5	17.0	13.0	15.0
15	16.5	14.0	15.5	14.5	12.0	13.5	14.5	12.0	13.5	14.0	13.0	13.5
16	14.5	13.5	14.0	13.0	12.0	12.5	16.5	14.5	15.5	15.5	14.0	15.0
17	15.0	14.0	14.5	13.0	11.5	12.5	16.0	13.0	14.5	15.5	14.5	15.0
18	15.0	14.0	14.5	14.5	12.0	13.5	13.0	12.0	12.5	14.5	13.0	14.0
19	17.0	14.5	16.0	15.0	14.5	15.0	13.0	12.0	12.5	13.5	12.0	13.0
20	18.0	15.5	16.5	15.0	13.0	14.0	12.0	12.0	12.5	14.5	13.5	14.0
21	19.5	16.5	18.0	13.0	12.0	12.5	12.0	12.0	12.5	16.0	14.5	15.5
22	20.5	18.5	19.5	13.5	12.0	13.0	13.0	12.0	12.5	17.0	15.5	16.5
23	20.0	19.0	19.5	13.0	12.0	12.5	---	---	---	18.5	16.5	17.5
24	19.5	19.0	19.5	13.0	12.0	12.5	---	---	---	19.0	18.0	18.5
25	20.0	18.5	19.5	14.0	13.0	13.5	---	---	---	19.5	18.5	19.0
26	19.5	18.5	19.0	14.5	13.0	14.0	---	---	---	19.5	19.0	19.5
27	18.5	17.0	18.0	15.0	12.0	14.0	---	---	---	19.5	18.5	19.0
28	19.0	18.5	18.0	14.0	12.0	13.0	12.0	11.5	12.0	18.5	15.0	16.5
29	18.5	15.5	17.0	13.5	11.5	12.5	14.0	12.0	13.0	15.0	11.0	13.0
30	18.5	15.5	17.0	13.0	11.5	12.5	15.0	13.0	14.0	11.5	11.0	11.5
31	---	---	---	13.5	12.0	13.0	15.0	13.5	14.0	---	---	---
MONTH	20.5	10.5	16.0	21.5	11.0	14.0	20.0	11.0	13.5	19.5	11.0	15.0

07076634 LITTLE RED RIVER AT JUDSONIA, AR

LOCATION.--Lat 35°15'48", long 91°38'12", in NW¼NW¼ sec.3, T.7 N., R.6 W., White County, on county road, 0.3 mi (0.5 km) south of Judsonia, and 0.5 mi (0.8 km) downstream from Corley Branch.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 13...	9827	9827	50	6.9	29.0	18.0	10	7	9.9	104	.9	200
NOV 12...	9827	9827	42	7.0	13.0	15.0	20	7	9.2	90	1.9	230
DEC 15...	9827	9827	43	6.8	5.0	9.0	45	25	10.2	88	1.7	2700
JAN 29...	9827	9827	36	6.9	.0	5.0	80	20	12.0	99	1.8	880
FEB 26...	9827	9827	41	7.1	9.0	10.0	15	15	10.9	96	1.1	480
MAR 25...	9827	9827	46	7.0	13.0	12.0	25	15	9.2	89	1.1	1000
APR 22...	9827	9827	66	7.1	16.0	18.0	15	15	8.5	89	2.3	1800
MAY 26...	9827	9827	55	7.6	14.0	19.0	15	35	9.7	103	2.3	300
JUN 24...	9827	9827	40	6.6	24.0	21.0	80	230	6.9	77	3.3	6600
JUL 20...	9827	9827	50	6.9	26.0	17.0	20	10	9.7	100	.7	250
AUG 17...	9827	9827	50	7.4	23.0	18.0	5	25	9.2	97	1.4	--
SEP 21...	9827	9827	59	7.1	18.0	16.0	10	7	8.3	83	--	700

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 13...	21	7	40	15	6.0	14	6.0	2.1	.1	31	0	25
NOV 12...	60	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	1700	1300	--	--	--	--	--	--	--	--	--	--
JAN 29...	150	--	12	3	3.0	8	1.0	2.3	1.1	11	0	9
FEB 26...	150	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	260	--	--	--	--	--	--	--	--	--	--	--
APR 22...	640	--	18	0	5.0	12	1.0	3.0	1.1	27	0	22
MAY 26...	33	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	110	40	28	12	6.0	16	3.0	1.5	.8	20	0	16
AUG 17...	35	390	--	--	--	--	--	--	--	--	--	--
SEP 21...	67	240	--	--	--	--	--	--	--	--	--	--

07076634 LITTLE RED RIVER AT JUDSONIA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT 13...	6.2	3.0	5.5	37	6	43	.19	.01	<3	<10	0	<10
NOV 12...	--	2.0	4.0	34	9	43	.15	.07	--	--	--	--
DEC 15...	--	2.0	5.0	40	34	74	.44	.10	--	--	--	--
JAN 29...	2.2	2.0	5.0	57	98	155	.79	.05	<3	<10	<3	10
FEB 26...	--	2.0	4.0	37	21	58	.34	.04	--	--	--	--
MAR 25...	--	7.0	5.0	56	14	70	.20	.04	--	--	--	--
APR 22...	3.4	2.0	3.5	35	31	66	.23	.06	<3	<10	<3	<10
MAY 26...	--	2.0	3.5	26	29	55	<.10	.09	--	--	--	--
JUN 24...	--	<1.0	4.0	91	277	368	--	.20	--	--	--	--
JUL 20...	4.0	3.0	3.0	36	23	59	.15	.04	<3	<10	<3	<10
AUG 17...	--	1.0	2.5	36	82	118	.19	.05	--	--	--	--
SEP 21...	--	3.0	4.0	29	9	38	.26	.06	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT 13...	300	<10	140	10	--	--	--	--	--	--	--	--
NOV 12...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC 15...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	690	10	100	30	--	--	--	--	--	--	--	--
FEB 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--	--
APR 22...	680	20	160	<10	--	--	--	--	--	--	--	--
MAY 26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	390	<10	30	100	--	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 21...	--	--	--	--	--	--	--	--	--	--	--	--

07076850 CYPRESS BAYOU NEAR BEEBE, AR

LOCATION.--Lat 35°01'30", long 91°52'23", in SW¼SW¼ sec.28, T.5 N., R.8 W., White-Lonoke County, on downstream side of bridge on State Highway 31, 2.1 mi (3.4 km) downstream from Mill Creek, 3.2 mi (5.1 km) south of Beebe, and 4.7 mi (7.6 km) upstream from Pigeon Roost Creek.

DRAINAGE AREA.--166 mi^2 (430 km^2).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 194.54 ft (59.296 m) above mean sea level.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--15 years, 213 ft^3/s (6.03 m^3/s), 17.42 in/yr (442 mm/yr), 154,300 acre-ft/yr (190 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft^3/s (595 m^3/s) Jan. 30, 1969, gage height, 16.09 ft (4.904 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (57 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 19	2000	3,480	98.6	11.74	3.578
June 26	0800	*5,610	159	12.94	3.944

No flow at times.

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	0	1.8	243	471	167	110	413	4.3	26	140		
2	0	2.2	248	439	139	103	278	3.0	27	36		
3	.13	2.4	144	431	126	97	154	3.3	25	23		
4	.14	3.5	81	403	114	91	96	3.0	20	18		
5	.18	6.8	59	346	119	141	71	3.6	19	15		
6	.45	4.9	55	266	280	347	57	4.6	22	11		
7	.43	3.6	167	198	303	406	49	6.7	21	8.0		
8	.48	2.8	253	170	219	470	44	9.6	7.9	6.0		
9	.61	3.1	174	146	161	779	38	8.7	2.0	3.0		
10	.70	3.6	100	118	138	1570	33	11	.55	2.0		
11	.77	3.1	75	112	130	1010	29	13	.35	.80		
12	.75	2.7	62	123	161	556	31	9.7	.26	.30		
13	.80	2.6	53	125	197	349	49	9.1	.23	0		
14	.74	2.6	45	121	174	232	45	23	.48	0		
15	.62	2.8	56	105	146	149	44	43	.46	0		
16	.57	3.3	155	96	135	124	34	54	15	0		
17	.49	4.2	244	92	155	104	27	33	70	0		
18	.40	2.4	167	87	693	83	21	27	126	0		
19	.40	2.8	96	84	2550	69	17	22	327	0		
20	.40	4.2	65	107	2630	63	14	18	307	0		
21	.33	3.1	58	221	1770	64	15	19	146	0		
22	.29	5.1	53	229	1450	74	20	12	57	0		
23	.36	7.6	49	163	1250	67	18	8.2	204	0		
24	.39	12	41	130	765	53	14	11	688	0		
25	.65	16	58	174	411	46	11	15	2940	0		
26	1.6	26	248	442	246	49	12	11	5140	0		
27	3.7	40	367	611	160	73	13	19	2880	0		
28	2.6	53	440	889	132	155	9.7	35	1140	0		
29	2.2	59	541	655	118	321	6.8	50	606	0		
30	2.0	89	538	344	---	467	5.7	39	284	0		
31	1.9	---	502	227	---	507	---	30	---	0		---
TOTAL	25.08	376.2	5437	8125	15039	8729	1669.2	558.8	15102.23	263.10	0	0
MEAN	.81	12.5	175	262	519	282	55.6	18.0	503	8.49	0	0
MAX	3.7	89	541	889	2630	1570	413	54	5140	140	0	0
MIN	0	1.8	41	84	114	46	5.7	3.0	.23	0	0	0
CFSM	.004	.08	1.05	1.58	3.13	1.70	.33	.11	3.03	.05	0	0
IN.	.006	.08	1.22	1.82	3.37	1.96	.37	.13	3.38	.06	0	0
AC-FT	50	746	10780	16120	29830	17310	3310	1110	29960	522	0	0

CAL YR 1975	TOTAL	79035.00	MEAN 217	MAX 8740	MIN 0	CFSM 1.31	IN 17.71	AC-FT	156800	
WTR YR 1976	TOTAL	55324.61	MEAN 151	MAX 5140	MIN 0	CFSM .91	IN 12.40	AC-FT	109700	

07077000 WHITE RIVER AT DEVALLS BLUFF, AR

LOCATION.--Lat 34°47'25", long 91°26'45", in SE¼ sec.17, T.2 N., R.4 W., Prairie County, near center of span on downstream side of bridge on U.S. Highway 70, 1.0 mi (1.6 km) northeast of DeVa11s Bluff, 7.5 mi (12.1 km) downstream from Wattensaw Bayou, 24.1 mi (38.8 km) upstream from Cache River, and at mile 125.3 (201.6 km).

DRAINAGE AREA.--23,483 mi² (60,821 km²).

PERIOD OF RECORD.--December 1967 to September 1970, April 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1963 to September 1970.

REMARKS.--Flow regulated by upstream reservoirs.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	INSTAN-TANEOUS DIS-CHARGE (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER-ATURE (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT										
13...	9827	9827	12200	243	8.1	14.0	19.0	5	20	9.3
NOV										
12...	9827	9827	11000	246	8.1	9.0	16.0	10	15	8.8
DEC										
15...	9827	9827	27900	177	7.8	16.0	12.0	90	50	9.5
JAN										
20...	9827	9827	22100	244	8.1	1.0	5.0	20	20	11.8
FEB										
17...	9827	9827	13300	286	8.1	17.0	12.0	5	20	10.4
18...	9827	9827	--	--	--	--	--	--	--	--
MAR										
22...	9827	9827	24700	242	8.2	14.0	14.0	30	30	9.6
APR										
28...	9827	9827	26000	282	8.2	25.0	16.0	10	20	10.0
MAY										
19...	9827	9827	15800	271	8.3	30.0	20.0	10	55	9.4
JUN										
21...	9827	9827	20200	246	7.9	18.0	23.0	60	95	7.3
JUL										
26...	9827	9827	27800	280	8.0	27.0	24.0	20	35	8.0
AUG										
23...	9827	9827	15300	273	8.2	26.0	24.0	5	30	9.2
SEP										
27...	9827	9827	--	293	8.2	24.0	23.0	10	50	8.1

DATE	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)
OCT										
13...	99	1.9	<20	27	<5	122	0	28	70	13
NOV										
12...	88	1.8	500	7	--	--	--	--	--	--
DEC										
15...	88	2.1	--	320	260	--	--	--	--	--
JAN										
20...	92	2.0	140	10	87	--	--	--	--	--
FEB										
17...	96	2.7	<10	<7	5	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	92	1.6	88	13	20	120	0	33	82	8.0
APR										
28...	100	1.9	850	410	--	--	--	--	--	--
MAY										
19...	102	1.8	620	13	--	--	--	--	--	--
JUN										
21...	84	1.9	--	--	--	130	15	29	72	15
JUL										
26...	94	2.1	180	<5	67	--	--	--	--	--
AUG										
23...	108	2.6	640	<5	10	--	--	--	--	--
SEP										
27...	93	4.3	2200	120	85	180	41	48	120	15

07077000 WHITE RIVER AT DEVALLS BLUFF, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 13...	2.5	1.4	160	0	131	2.0	5.0	7.5	168	40
NOV 12...	--	--	--	--	--	--	8.0	8.0	169	25
DEC 15...	--	--	--	--	--	--	3.0	5.0	187	67
JAN 20...	--	--	--	--	--	--	4.0	6.0	161	35
FEB 17...	--	--	--	--	--	--	5.0	5.0	160	32
18...	--	--	--	--	--	--	--	--	--	--
MAR 22...	2.5	1.6	150	0	123	1.5	5.0	5.0	138	20
APR 28...	--	--	--	--	--	--	4.0	3.0	163	62
MAY 19...	--	--	--	--	--	--	5.0	6.0	161	70
JUN 21...	--	--	140	--	115	2.8	1.0	5.5	214	1
JUL 26...	--	--	--	--	--	--	4.0	5.0	152	42
AUG 23...	--	--	--	--	--	--	2.0	5.0	154	65
SEP 27...	5.6	1.1	170	--	139	1.7	3.0	7.0	164	90

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 13...	208	.22	.03	<3	<10	0	<10	800	<10	110
NOV 12...	194	.41	.07	--	--	--	--	--	--	--
DEC 15...	254	.42	.15	--	--	--	--	--	--	--
JAN 20...	196	.39	.04	--	--	--	--	--	--	--
FEB 17...	192	.33	.04	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
MAR 22...	158	.25	.06	<3	<10	<3	<10	1200	<10	55
APR 28...	225	.28	.09	--	--	--	--	--	--	--
MAY 19...	231	.18	.03	--	--	--	--	--	--	--
JUN 21...	215	.23	.07	<3	--	--	<10	1200	--	130
JUL 26...	194	.28	.11	--	--	--	--	--	--	--
AUG 23...	219	.22	<.01	--	--	--	--	--	--	--
SEP 27...	254	<.10	.06	--	<10	<3	<10	410	<10	100

07077000 WHITE RIVER AT DEVALLS BLUFF, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
13...	<10	.00	.00	.00	.00	.00	.00	--	--
NOV									
12...	--	--	--	--	--	--	--	--	--
DEC									
15...	--	--	--	--	--	--	--	--	--
JAN									
20...	--	--	--	--	--	--	--	--	--
FEB									
17...	--	--	--	--	--	--	--	--	--
18...	--	.00	.00	.00	.00	.00	.00	.00	<1
MAR									
22...	<10	--	--	--	--	--	--	--	--
APR									
28...	--	--	--	--	--	--	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
JUN									
21...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JUL									
26...	--	.00	.00	.00	.00	.00	.00	.00	<1
AUG									
23...	--	.00	.00	.00	.00	.00	.00	.00	<1
SEP									
27...	<10	.00	.00	.00	.00	.00	.00	.00	<1

07077380 CACHE RIVER AT EGYPT, AR

LOCATION.--Lat 35°51'28", long 90°56'00", in NW¼SE¼ sec.12, T.14 N., R.1 E., Craighead County, on right bank on downstream side of bridge on State Highway 91, 1.0 mi (1.6 km) southeast of Egypt, 2.2 mi (3.5 km) northwest of Winesburg, and at mile 143 (230 km).

DRAINAGE AREA.--701 mi^2 (1,816 km^2).

PERIOD OF RECORD.--October 1964 to current year. Daily stages and results of discharge measurements for July 1937 to December 1940, December 1944 to date are published in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1972: 1966. WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 222.99 ft (67.967 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years, 854 ft^3/s (24.2 m^3/s), 16.62 in/yr (422 mm/yr) 618,700 acre-ft/yr (763 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,940 ft^3/s (253 m^3/s) Jan. 6, 1966, gage height, 21.88 ft (6.669 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Nov. 14-17, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,370 ft^3/s (95.4 m^3/s) Feb. 21, gage height, 17.76 ft (5.413 m); minimum, 32 ft^3/s (0.91 m^3/s) Nov. 2, 3, gage height, 3.22 ft (0.98 m).

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	356	33	776	2340	1580	1150	1390	107	2040	1430	384	150
2	264	32	632	2000	1260	1030	1020	95	1770	1300	311	161
3	207	46	520	1700	900	963	792	88	1540	1300	240	178
4	173	127	429	1370	710	913	642	82	1240	2680	196	211
5	138	117	342	1120	600	1540	464	79	915	2970	176	217
6	113	117	1840	980	500	1840	350	77	730	2940	159	202
7	94	87	2850	906	420	1580	285	75	614	2790	158	180
8	78	68	2910	882	370	1420	239	75	481	2590	161	172
9	67	61	2820	882	350	2290	206	78	339	2440	158	243
10	59	95	2640	870	340	2800	178	72	237	2350	139	280
11	55	96	2400	673	321	2590	158	70	171	2290	123	260
12	51	84	2180	481	273	2110	140	82	128	2210	136	240
13	48	84	1940	431	236	1640	128	88	104	2110	151	199
14	46	68	1660	386	200	1320	121	100	82	1990	159	173
15	44	58	1450	341	175	1110	117	95	73	1820	206	154
16	44	52	1490	294	154	970	113	89	867	1630	356	135
17	43	47	1280	247	752	872	107	92	1460	1460	351	126
18	40	43	1080	208	3080	759	103	92	1530	1320	289	117
19	38	37	925	180	3310	628	101	108	1620	1210	230	113
20	37	39	831	175	3320	495	97	122	1510	1110	193	107
21	35	37	774	176	3350	801	97	108	1320	1070	185	110
22	34	36	706	181	3340	851	92	97	1150	958	182	119
23	33	35	610	186	3220	715	88	94	1180	847	178	118
24	34	35	482	183	3010	584	98	94	1570	737	184	110
25	53	34	412	1240	2720	470	143	82	2090	620	183	109
26	63	57	1000	2400	2360	391	236	84	2220	527	177	90
27	71	150	1870	2360	2000	418	318	159	1960	455	174	77
28	62	144	2050	2280	1660	338	237	1840	1680	408	180	76
29	47	149	2250	2100	1370	1280	164	2740	1510	536	174	111
30	38	475	2760	1900	---	2020	126	2640	1440	785	170	128
31	35	---	2670	1750	---	1840	---	2350	---	477	151	---
TOTAL	2500	2543	46579	31222	41881	37728	8350	12054	33571	47360	6214	4666
MEAN	80.6	84.8	1503	1007	1444	1217	278	389	1119	1528	200	156
MAX	356	475	2910	2400	3350	2800	1390	2740	2220	2970	384	280
MIN	33	32	342	175	154	338	88	70	73	408	123	76
CFSM	.11	.12	2.14	1.44	2.06	1.74	.40	.55	1.60	2.18	.29	.22
IN.	.13	.13	2.47	1.66	2.22	2.00	.44	.64	1.78	2.51	.33	.25
AC-FT	4960	5040	92390	61930	83070	74830	16560	23910	66590	93940	12330	9260

CAL YR 1975 TOTAL 411099 MEAN 1126 MAX 6780 MIN 32 CFSM 1.61 IN 21.82 AC-FT 815400
WTR YR 1976 TOTAL 274668 MEAN 750 MAX 3350 MIN 32 CFSM 1.07 IN 14.58 AC-FT 544800

07077400 CACHE RIVER NEAR CASH, AR

LOCATION.--Lat 35°47'48", long 90°58'54", in SE¼SE¼ sec.33, T.14 N., R.1 E., Craighead County, at bridge on State Highway 226, 2.5 mi (4.0 km) west of Cash.

DRAINAGE AREA.--735 mi^2 (1,904 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
22...	9827	9827	36	280	7.8	20.0	16.0	20	20	7.6
NOV										
25...	9827	9827	39	290	7.9	5.0	6.0	15	8	11.4
DEC										
29...	9827	9827	2360	84	6.9	9.0	10.0	150	120	11.1
FEB										
11...	9827	9827	330	94	7.2	16.0	10.0	400	280	10.5
MAR										
22...	9827	9827	890	72	7.2	26.0	14.0	300	750	7.9
APR										
13...	9827	9827	130	243	7.9	14.0	15.0	70	70	9.0
MAY										
12...	9827	9827	90	357	8.1	26.0	20.0	20	50	9.0
JUN										
09...	9827	9827	360	115	7.3	35.0	25.0	120	180	7.3
JUL										
13...	9827	9827	2220	80	7.2	38.0	28.0	160	140	5.1
AUG										
10...	9827	9827	150	339	7.8	30.0	24.0	30	40	7.1
SEP										
14...	9827	9827	180	427	8.2	30.0	21.0	20	45	7.5

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
22...	76	1.5	200	<13	--	130	0	34	86	11
NOV										
25...	91	1.8	100	70	120	--	--	--	--	--
DEC										
29...	98	3.9	10000	1600	--	--	--	--	--	--
FEB										
11...	93	2.8	200	100	--	--	--	--	--	--
MAR										
22...	76	4.0	3400	2200	2000	36	13	8.0	20	4.0
APR										
13...	88	3.6	760	110	80	--	--	--	--	--
MAY										
12...	98	4.0	40	<10	--	--	--	--	--	--
JUN										
09...	87	3.3	--	200	--	40	6	9.0	22	4.0
JUL										
13...	65	2.2	300	52	20	--	--	--	--	--
AUG										
10...	84	3.6	160	33	40	--	--	--	--	--
SEP										
14...	83	3.6	800	110	--	210	30	63	160	13

07077400 CACHE RIVER NEAR CASH, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
22...	16	3.5	190	0	156	4.8	9.0	8.5	--	--
NOV										
25...	--	--	--	--	--	--	4.0	9.5	257	11
DEC										
29...	--	--	--	--	--	--	7.0	9.0	154	64
FEB										
11...	--	--	--	--	--	--	12	7.5	242	185
MAR										
22...	5.2	7.8	28	0	23	2.8	3.0	6.0	291	433
APR										
13...	--	--	--	--	--	--	10	7.0	173	78
MAY										
12...	--	--	--	--	--	--	5.0	10	221	81
JUN										
09...	7.2	4.2	41	0	34	3.3	4.0	1200	203	127
JUL										
13...	--	--	--	--	--	--	<1.0	4.5	149	92
AUG										
10...	--	--	--	--	--	--	7.0	6.5	203	64
SEP										
14...	23	3.7	220	0	180	2.2	5.0	14	270	52

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
22...	--	.14	.11	<3	<10	0	190	1400	20	830
NOV										
25...	268	.37	.05	--	--	--	<10	720	40	600
DEC										
29...	218	.80	.23	--	--	--	10	4000	10	96
FEB										
11...	427	.53	.21	--	--	--	120	8000	20	240
MAR										
22...	724	1.1	.54	<3	<10	<3	230	16000	40	600
APR										
13...	251	.35	.20	--	--	--	10	3000	30	730
MAY										
12...	302	<.10	.22	--	--	--	150	1600	40	870
JUN										
09...	330	.92	.33	<3	<10	<3	60	6900	20	320
JUL										
13...	241	.35	.28	--	--	--	<10	9000	<10	310
AUG										
10...	267	.56	.11	--	<10	--	<10	830	--	100
SEP										
14...	322	.37	.21	<3	<10	<3	<10	1500	10	240

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
22...	110	.00	.00	.00	.00	.00	.00	.00	<1
NOV									
25...	<10	--	--	--	--	--	--	--	--
DEC									
29...	30	--	--	--	--	--	--	--	--
FEB									
11...	70	--	--	--	--	--	--	--	--
MAR									
22...	140	.00	.00	.00	.00	.00	.00	--	--
APR									
13...	30	--	--	--	--	--	--	--	--
MAY									
12...	40	--	--	--	--	--	--	--	--
JUN									
09...	40	.00	.00	.00	.00	.00	.00	.00	<1
JUL									
13...	220	.00	.00	.00	.02	.00	.00	.00	<1
AUG									
10...	<10	--	--	--	--	--	--	--	--
SEP									
14...	190	.00	.00	.00	.01	.00	.00	.00	<1

07077500 CACHE RIVER AT PATTERSON, AR

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 35°16'10", long 91°14'15", in SE¼ sec.31, T.8 N., R.2 W., Woodruff County, at bridge on U.S. Highway 64 at Patterson, 10.9 mi (17.5 km) upstream from Maple Slough, and at mile 77.2 (124.2 km).

DRAINAGE AREA.--1,037 mi² (2,686 km²).

PERIOD OF RECORD.--October 1952 to May 1955, October 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) (00335)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
01...	1028	1028	121	6.8	17.0	55	--	--	30	--	B22	88
NOV												
06...	1028	1028	199	7.2	17.0	45	--	--	--	1.9	220	310
DEC												
04...	1028	1028	157	7.3	7.0	300	8.8	59	--	--	--	1200
JAN												
08...	1028	1028	90	6.7	.0	130	13.4	95	33	1.6	B75	B25
FEB												
04...	1028	1028	76	6.8	4.5	200	--	--	--	2.1	B130	200
MAR												
03...	1028	1028	65	6.9	16.0	230	7.0	73	--	2.8	B200	730
31...	1028	1028	60	7.2	14.5	280	7.9	80	47	2.2	1100	1400
APR												
28...	1028	1028	144	6.9	15.0	180	7.0	72	26	3.0	640	240
JUN												
03...	1028	1028	88	7.6	24.0	70	--	--	--	2.4	1200	1500
JUL												
08...	1028	1028	85	7.1	25.0	250	6.5	80	--	6.4	B190	B1100
AUG												
04...	1028	1028	175	7.4	23.0	70	6.0	71	--	2.4	B150	420
SEP												
01...	1028	1028	358	7.7	23.0	40	5.9	70	--	1.8	180	440

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)
OCT												
01...	43	3	11	3.7	5.2	19	.3	3.2	49	0	40	12
NOV												
06...	86	0	22	7.5	8.8	17	.4	3.9	121	0	99	12
DEC												
04...	57	24	14	5.4	8.7	23	.5	5.3	41	0	34	3.3
JAN												
08...	25	8	5.6	2.7	4.9	26	.4	3.7	21	0	17	6.7
FEB												
04...	22	5	5.1	2.2	5.0	29	.5	3.8	20	0	16	5.1
MAR												
03...	20	1	5.2	1.8	3.9	26	.4	3.2	24	0	20	4.8
31...	21	1	5.3	2.0	3.4	23	.3	2.3	25	0	21	2.5
APR												
28...	52	0	13	4.8	7.2	22	.4	3.1	72	0	59	15
JUN												
03...	25	5	6.1	2.4	5.8	31	.5	2.5	24	0	20	1.0
JUL												
08...	28	0	7.3	2.4	5.0	26	.4	2.4	35	0	29	4.4
AUG												
04...	75	1	19	6.6	9.0	20	.5	2.5	90	0	74	5.7
SEP												
01...	160	0	40	15	19	20	.7	2.4	211	0	173	6.7

07077500 CACHE RIVER AT PATTERSON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT												
01...	4.1	7.0	.1	8.4	83	67	.11	.08	1.7	1.8	7.9	.22
NOV												
06...	3.8	1.8	.1	17	143	125	.19	.11	1.4	1.5	6.7	.13
DEC												
04...	14	10	.1	11	107	89	.15	.42	--	--	--	.40
JAN												
08...	11	8.5	.1	6.5	76	53	.10	.29	1.5	1.8	7.9	.22
FEB												
04...	9.9	5.9	.1	5.6	53	47	.07	.44	1.9	2.3	10	.29
MAR												
03...	7.3	3.1	.1	5.3	41	42	.06	.28	2.4	2.7	12	.41
31...	5.6	2.9	.1	4.6	49	39	.07	.36	2.5	2.9	13	.43
APR												
28...	6.9	4.6	.1	9.8	104	85	.14	.52	1.9	2.4	11	.33
JUN												
03...	9.0	5.3	.2	9.1	67	52	.09	.83	.80	1.6	7.2	.15
JUL												
08...	4.1	3.4	.2	7.3	--	50	.10	.43	1.3	1.7	7.7	.46
AUG												
04...	7.8	5.0	.2	11	124	105	.17	.74	1.0	1.7	7.7	.26
SEP												
01...	11	9.7	.2	19	228	220	.31	.25	.37	.62	2.7	.16

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
OCT											
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
04...	--	--	--	--	--	--	--	--	--	--	--
JAN											
08...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	7	6	1	2	1	1	30	30	0	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT											
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
04...	--	--	--	--	--	--	--	--	--	--	--
JAN											
08...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	0	23	15	8	10000	120	23	23	0	400	390

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	SUS-PENDED SEDI-MENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
01...	--	--	--	--	--	--	--	--	61	85
DEC										
04...	--	--	--	--	--	--	--	--	198	97
JAN										
08...	--	--	--	--	--	--	--	--	64	98
JUL										
08...	10	.2	1	1	0	360	350	10	--	--

07077600 CACHE RIVER AT BRASFIELD, AR

LOCATION.--Lat 34°49'52", long 91°22'42", in NW¼SE¼ sec.36, T.3 N., R.4 W., at Monroe-Prairie County line, at bridge on U.S. Highway 70 at Brasfield and 3.1 mi (5.0 km) downstream from Jackson Bayou.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 13...	9827	9827	129	7.3	14.0	19.0	60	40	4.8	51	4.2	40
NOV 12...	9827	9827	213	7.4	10.0	15.0	40	75	5.8	57	1.8	540
DEC 15...	9827	9827	122	7.2	16.0	11.0	400	150	8.8	79	2.8	520
JAN 20...	9827	9827	106	7.3	1.0	4.0	150	95	10.4	79	2.4	1200
FEB 17...	9827	9827	95	7.2	17.0	14.0	300	160	8.2	79	2.3	500
18...	9827	9827	--	--	--	--	--	--	--	--	--	--
MAR 22...	9827	9827	67	7.3	14.0	15.0	560	210	7.1	70	2.4	2600
APR 28...	9827	9827	191	7.4	26.0	19.0	150	90	5.9	63	1.9	1100
MAY 19...	9827	9827	278	7.9	30.0	24.0	40	100	11.3	133	>11	<30
JUN 21...	9827	9827	116	7.2	20.0	23.0	80	310	5.1	59	3.6	1200
JUL 26...	9827	9827	106	7.3	28.0	27.0	100	100	3.9	48	2.0	280
AUG 23...	9827	9827	262	7.8	26.0	26.0	50	40	5.4	66	3.0	200
SEP 27...	9827	9827	403	7.8	24.0	23.0	25	30	6.3	72	2.8	400

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 13...	40	60	60	4	12	30	7.0	7.3	3.7	68	0	56
NOV 12...	90	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	310	440	--	--	--	--	--	--	--	--	--	--
JAN 20...	100	500	--	--	--	--	--	--	--	--	--	--
FEB 17...	38	100	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	170	220	30	5	6.0	24	1.0	4.0	4.4	31	0	25
APR 28...	140	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	30	--	--	--	--	--	--	--	--	--	--	--
JUN 21...	630	450	96	55	14	34	15	--	--	50	--	41
JUL 26...	100	200	--	--	--	--	--	--	--	--	--	--
AUG 23...	<7	20	--	--	--	--	--	--	--	--	--	--
SEP 27...	30	60	190	26	48	120	16	27	3.0	200	--	164

07077600 CACHE RIVER AT BRASFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
13...	5.5	16	12	126	35	161	.13	.11	<3	<10	0	<10
NOV												
12...	--	4.0	14	176	75	251	.24	.25	--	--	--	<10
DEC												
15...	--	9.0	12	249	54	303	.34	.31	--	--	--	<10
JAN												
20...	--	6.0	9.5	167	104	271	.27	.17	--	--	--	<10
FEB												
17...	--	8.0	8.5	211	95	306	.45	.02	--	--	--	<10
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	2.5	2.0	5.0	240	98	338	.31	.33	<3	<10	<3	10
APR												
28...	--	<1.0	11	184	48	232	.40	.18	--	--	--	<10
MAY												
19...	--	8.0	20	190	69	259	.13	.35	--	--	--	<10
JUN												
21...	5.0	1.0	8.0	249	124	375	1.0	.39	<3	--	--	<10
JUL												
26...	--	<1.0	6.0	140	59	199	.14	.38	--	--	--	<10
AUG												
23...	--	2.0	12	192	36	228	.47	.02	--	<10	--	<10
SEP												
27...	5.1	6.0	18	228	42	270	.47	.11	--	<10	<3	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
13...	2700	<10	210	<10	.00	.00	.00	.00	.00	.00	--	--
NOV												
12...	4100	--	760	10	--	--	--	--	--	--	--	--
DEC												
15...	7200	--	130	20	--	--	--	--	--	--	--	--
JAN												
20...	4800	--	89	20	--	--	--	--	--	--	--	--
FEB												
17...	6800	--	140	20	--	--	--	--	--	--	--	--
18...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
MAR												
22...	9100	<10	200	40	--	--	--	--	--	--	--	--
APR												
28...	4200	--	980	10	--	--	--	--	--	--	--	--
MAY												
19...	1900	--	970	<10	--	--	--	--	--	--	--	--
JUN												
21...	8400	--	280	40	.00	.01	.01	.00	.01	.00	.11	<1
JUL												
26...	5700	--	250	<10	.00	.00	.00	.00	.00	.00	.00	<1
AUG												
23...	1600	--	880	<10	.00	.00	.00	.00	.00	.00	.00	<1
SEP												
27...	700	<10	300	10	.00	.00	.00	.00	.00	.00	.00	<1

07077660 BAYOU DEVIEW NEAR GIBSON, AR

LOCATION.--Lat 35°47'36", long 90°50'18", in SW¼SW¼ sec.36, T.14 N., R.2 E., Craighead County, at bridge on State Highway 226, 1.8 mi (2.9 km) northwest of Gibson.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
22...	9827	9827	--	272	7.3	18.0	16.0	50	30	1.5
NOV										
25...	9827	9827	176	132	7.0	5.0	7.0	160	50	4.2
DEC										
29...	9827	9827	--	80	6.9	10.0	9.0	260	160	9.6
JAN										
14...	9827	9827	--	177	7.2	10.0	7.0	100	45	5.9
FEB										
04...	9827	9827	--	--	--	--	--	--	--	--
11...	9827	9827	--	174	7.2	16.0	11.0	90	40	5.1
MAR										
22...	9827	9827	--	93	7.3	26.0	15.0	240	100	8.6
APR										
13...	9827	9827	--	230	8.4	15.0	17.0	40	20	15.0
MAY										
12...	9827	9827	--	363	7.7	27.0	21.0	30	20	4.7
SEP										
14...	9827	9827	--	498	7.8	30.0	23.0	40	20	4.5

DATE	PERCENT SATURATION (00301)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
22...	15	12	16000	1100	--	68	0	14	36	8.0
NOV										
25...	35	9.3	950	300	100	--	--	--	--	--
DEC										
29...	83	5.8	55000	9000	--	--	--	--	--	--
JAN										
14...	48	14	92000	24000	--	--	--	--	--	--
FEB										
04...	--	--	--	--	--	--	--	--	--	--
11...	46	>5.1	17000	1100	--	--	--	--	--	--
MAR										
22...	84	2.6	39000	5800	78	30	0	7.0	18	3.0
APR										
13...	155	11	1300	400	<20	--	--	--	--	--
MAY										
12...	52	4.5	5600	130	--	--	--	--	--	--
SEP										
14...	52	12	9800	2800	--	130	0	29	72	15

07077660 BAYOU DEVIEW NEAR GIBSON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
22...	31	3.5	120	0	98	9.6	29	25	--	--
NOV										
25...	--	--	--	--	--	--	5.0	12	213	24
DEC										
29...	--	--	--	--	--	--	7.0	7.5	158	422
JAN										
14...	--	--	--	--	--	--	9.0	16	145	29
FEB										
04...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	12	13	141	48
MAR										
22...	6.9	3.5	43	0	35	3.4	16	7.5	156	60
APR										
13...	--	--	--	--	--	--	16	20	158	43
MAY										
12...	--	--	--	--	--	--	15	26	215	24
SEP										
14...	46	5.6	180	0	148	4.6	17	42	273	27

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
22...	--	.21	1.9	<3	<10	0	20	2200	<10	930
NOV										
25...	237	.16	.97	--	--	--	<10	4100	--	360
DEC										
29...	580	.65	.31	--	--	--	40	6500	--	340
JAN										
14...	174	.85	1.0	--	--	--	110	2300	--	440
FEB										
04...	--	--	--	--	--	--	--	--	--	--
11...	189	.44	.60	--	--	--	140	2500	--	580
MAR										
22...	216	.70	.31	<3	<10	<3	250	6300	30	290
APR										
13...	201	.38	.81	--	--	--	20	1500	--	310
MAY										
12...	239	.11	1.7	--	--	--	110	1000	--	640
SEP										
14...	300	<.10	2.7	<3	<10	<3	<10	1200	<10	320

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
22...	<10	.00	.00	.00	.00	.00	.00	.00	<1
NOV									
25...	20	--	--	--	--	--	--	--	--
DEC									
29...	70	--	--	--	--	--	--	--	--
JAN									
14...	60	--	--	--	--	--	--	--	--
FEB									
04...	--	.00	.00	.00	.00	.00	.00	.00	<1
11...	70	--	--	--	--	--	--	--	--
MAR									
22...	90	--	--	--	--	--	--	--	--
APR									
13...	30	--	--	--	--	--	--	--	--
MAY									
12...	30	--	--	--	--	--	--	--	--
SEP									
14...	110	.00	.00	.00	.01	.00	.00	.00	<1

07077700 BAYOU DEVIEW AT MORTON, AR

NOTE.--Streamflow records for current year are not available in time for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 35°15'07", long 91°06'37", near center of secs.4, 5, 8, and 9, T.7 N., R.1 W., Woodruff County, at gaging station at bridge on U.S. Highway 64, 1.0 mi (1.6 km) west of Morton, and at mile 39.6 (63.7 km).

DRAINAGE AREA.--421 mi^2 (1,090 km^2).

PERIOD OF RECORD.--October 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) (00335)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
01...	1028	1028	192	6.8	17.5	55	--	--	28	--	--	B33
NOV												
06...	1028	1028	209	7.6	15.0	40	--	--	--	7.2	200	1200
DEC												
04...	1028	1028	155	7.2	7.0	200	7.4	59	--	--	--	870
JAN												
08...	1028	1028	117	6.6	.0	130	11.6	82	30	2.1	270	B180
FEB												
04...	1028	1028	98	6.5	6.5	150	--	--	--	.8	280	180
MAR												
03...	1028	1028	90	6.8	16.0	230	5.1	53	--	3.0	180	1600
31...	1028	1028	55	6.8	15.0	310	8.5	87	46	2.6	1300	B2000
APR												
28...	1028	1028	71	6.2	14.5	270	4.9	50	43	4.0	1200	B1000
JUN												
03...	1028	1028	114	7.4	22.5	50	--	--	--	3.9	340	B930
JUL												
08...	1028	1028	127	6.9	25.0	180	4.2	52	--	--	--	B740
AUG												
04...	1028	1028	360	7.5	23.5	30	4.7	57	--	4.3	B83	170
SEP												
01...	1028	1028	450	7.7	23.5	35	5.2	--	--	5.5	B67	320

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)
OCT												
01...	74	2	19	6.4	3.7	9	.2	4.2	87	0	71	22
NOV												
06...	71	9	18	6.3	7.7	17	.4	8.9	75	0	62	3.0
DEC												
04...	46	0	12	3.9	13	34	.8	6.3	59	0	48	6.0
JAN												
08...	38	7	9.3	3.6	6.7	25	.5	4.8	38	0	31	15
FEB												
04...	28	0	6.9	2.7	5.4	26	.4	3.7	35	0	29	18
MAR												
03...	30	1	7.8	2.6	4.7	23	.4	3.1	35	0	29	8.9
31...	21	7	5.3	2.0	3.6	24	.3	2.2	18	0	15	4.6
APR												
28...	26	7	5.6	2.8	4.8	27	.4	2.6	23	0	19	23
JUN												
03...	38	14	10	3.2	7.0	27	.5	2.8	30	0	25	1.9
JUL												
08...	44	4	12	3.4	6.6	23	.4	2.3	49	0	40	9.9
AUG												
04...	150	0	40	12	17	20	.6	2.3	183	0	150	9.3
SEP												
01...	190	0	51	16	21	19	.7	2.4	239	0	196	7.6

07077700 BAYOU DEVIEW AT MORTON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT												
01...	5.3	11	.1	12	122	105	.17	.15	2.0	2.2	9.5	.22
NOV												
06...	17	12	.1	10	141	117	.19	.04	2.2	2.2	9.9	.23
DEC												
04...	20	9.0	.2	9.8	125	103	.17	.43	3.7	4.1	18	.41
JAN												
08...	11	8.0	.1	7.7	85	70	.12	.15	1.8	2.0	8.6	.25
FEB												
04...	8.7	6.0	.1	5.8	63	57	.09	.17	1.8	2.0	8.7	.26
MAR												
03...	6.4	3.5	.1	5.7	64	51	.09	.15	2.8	3.0	13	.44
31...	7.6	3.9	.1	4.4	49	38	.07	.34	2.9	3.2	14	.38
APR												
28...	8.0	5.0	.1	5.5	62	46	.08	.62	3.1	3.7	16	.44
JUN												
03...	15	6.7	.2	9.6	64	69	.09	.59	1.6	2.2	9.7	.17
JUL												
08...	7.7	4.3	.2	8.0	92	69	.13	.33	1.4	1.7	7.7	.32
AUG												
04...	17	8.6	.2	18	214	205	.29	.73	1.2	1.9	8.5	.16
SEP												
01...	20	13	.2	21	275	262	.37	.13	.60	.73	3.2	.13

DATE	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)	DIS-SOLVED COBALT (CU) (UG/L) (01035)
OCT										
01...	--	--	--	--	--	--	--	--	--	--
DEC										
04...	--	--	--	--	--	--	--	--	--	--
JAN										
08...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	1	2	1	1	20	20	0	3	3	0

DATE	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT										
01...	--	--	--	--	--	--	--	--	--	--
DEC										
04...	--	--	--	--	--	--	--	--	--	--
JAN										
08...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	19	19	0	7200	60	0	0	0	350	250

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	SUS-PENDED SEDI-MENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
01...	--	--	--	--	--	--	--	--	89	84
DEC										
04...	--	--	--	--	--	--	--	--	289	97
JAN										
08...	--	--	--	--	--	--	--	--	75	99
JUL										
08...	100	.0	1	0	1	50	50	0	--	--

07077750 BAYOU DEVIEW NEAR BRASFIELD, AR

LOCATION.--Lat 34°50'21", long 91°17'04", in NW¼NE¼ sec.35, T.3 N., R.3 W., Monroe County, at bridge on U.S. Highway 70, 1.4 mi (2.3 km) upstream from Big Rhobe Bayou, and 5.6 mi (9.0 km) northeast of Brasfield.

DRAINAGE AREA.--632 mi² (1,637 km²).

PERIOD OF RECORD.--January 1955 to September 1957, April 1974 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 13...	9827	9827	184	7.5	15.0	20.0	60	30	5.3	57	2.2	50
NOV 12...	9827	9827	227	7.3	10.0	14.0	150	10	2.0	19	6.3	620
DEC 15...	9827	9827	124	7.1	15.0	9.0	400	160	7.4	64	2.0	1100
JAN 20...	9827	9827	114	7.4	1.0	4.0	200	70	10.6	81	1.5	350
FEB 17...	9827	9827	106	7.2	17.0	16.0	360	110	6.2	62	1.6	280
18...	9827	9827	--	--	--	--	--	--	--	--	--	--
MAR 22...	9827	9827	71	7.4	15.0	15.0	400	140	6.7	66	1.2	220
APR 28...	9827	9827	128	7.5	25.0	20.0	150	60	8.3	90	1.3	410
MAY 19...	9827	9827	122	7.5	30.0	23.0	140	45	7.6	87	1.1	40
JUN 21...	9827	9827	99	7.1	22.0	21.0	120	170	5.7	63	1.3	1500
JUL 27...	9827	9827	140	7.4	29.0	28.0	100	90	2.6	33	1.3	100
AUG 23...	9827	9827	258	7.8	27.0	24.0	70	30	7.8	92	1.7	--
SEP 27...	9827	9827	347	7.8	24.0	22.0	55	30	5.8	66	.5	150

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 13...	77	74	84	2	21	52	8.0	9.7	3.9	100	0	82
NOV 12...	25	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	360	250	--	--	--	--	--	--	--	--	--	--
JAN 20...	210	270	--	--	--	--	--	--	--	--	--	--
FEB 17...	120	50	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	94	60	32	6	7.0	18	3.0	4.5	3.8	32	0	26
APR 28...	91	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	17	--	--	--	--	--	--	--	--	--	--	--
JUN 21...	150	480	50	20	8.0	20	7.0	--	--	37	--	30
JUL 27...	44	<10	--	--	--	--	--	--	--	--	--	--
AUG 23...	15	100	--	--	--	--	--	--	--	--	--	--
SEP 27...	160	95	160	21	41	100	14	20	3.3	170	--	139

07077750 BAYOU DEVIEW NEAR BRASFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT 13...	5.1	12	14	151	22	173	.12	.11	<3	<10	0	<10
NOV 12...	--	2.0	12	196	10	206	.60	.41	--	--	--	<10
DEC 15...	--	17	16	275	54	329	.50	.33	--	--	--	10
JAN 20...	--	6.0	10	165	32	197	.17	.14	--	--	--	<10
FEB 17...	--	5.0	8.5	212	49	261	.24	.13	--	--	--	10
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	2.0	5.0	6.0	239	32	271	.25	.22	<3	<10	<3	<10
APR 28...	--	<1.0	7.0	127	39	166	.22	.32	--	--	--	230
MAY 19...	--	2.0	7.5	117	24	141	.14	.26	--	--	--	30
JUN 21...	4.7	2.0	9.0	225	70	295	.51	.35	<3	--	--	<10
JUL 27...	--	<1.0	8.0	126	66	192	.19	.39	--	--	--	<10
AUG 23...	--	8.0	12	168	22	190	.12	.16	--	<10	--	<10
SEP 27...	4.3	5.0	18	210	21	231	<.10	.13	--	<10	10	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT 13...	1400	<10	270	<10	.00	.00	.00	.00	.00	.00	--	--
NOV 12...	3200	10	8000	30	--	--	--	--	--	--	--	--
DEC 15...	7400	<10	180	30	--	--	--	--	--	--	--	--
JAN 20...	4300	40	100	20	--	--	--	--	--	--	--	--
FEB 17...	6300	--	170	20	--	--	--	--	--	--	--	--
18...	--	--	--	--	.00	.01	.00	.00	.00	.00	.00	<1
MAR 22...	9600	10	110	30	--	--	--	--	--	--	--	--
APR 28...	4200	--	320	100	--	--	--	--	--	--	--	--
MAY 19...	3100	10	180	10	--	--	--	--	--	--	--	--
JUN 21...	8800	20	330	30	.00	.00	.01	.00	.00	.00	.00	<1
JUL 27...	4700	<10	470	<10	--	--	--	--	--	--	--	--
AUG 23...	1400	<10	250	10	.00	.00	.00	.00	.00	.00	.00	<1
SEP 27...	950	<10	120	<10	.00	.00	.00	.00	.00	.00	.00	<1

07077800 WHITE RIVER AT CLARENDON, AR
(National stream-quality accounting station)

NOTE.--Streamflow records for the current year are not available in time for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 34°41'08", long 91°18'55", in W½ sec.22, T.1 N., R.3 W., Monroe County, at gaging station at St. Louis-Southwestern Railroad bridge at Clarendon, 1.1 mi (1.8 km) downstream from Cache River, and at mile 100.1 (161.1 km).

DRAINAGE AREA.--25,555 mi^2 (66,187 km^2).

PERIOD OF RECORD.--Water years 1948 to 1967, October 1970 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1947 to September 1965, October 1974 to current year.
WATER TEMPERATURES: October 1948 to September 1965, October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 544 micromhos Nov. 12, 1955; minimum, 61 micromhos Feb. 3, 1950.
WATER TEMPERATURES: Maximum, 32.0°C on several days during June and July 1954; minimum, 0.0°C Jan. 15, 1962, Jan. 26-28, 1963.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 342 micromhos Nov. 17; minimum, 120 micromhos Mar. 14.
WATER TEMPERATURES: Maximum, 25.5°C Sept. 22; minimum, 2.0°C Jan. 7-10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)
OCT											
22...	1028	1028	289	8.1	17.0	15	<11	813	140	0	34
22-31	1028	1028	--	--	--	--	--	--	--	--	--
NOV											
01-11	1028	1028	--	--	--	--	--	--	--	--	--
11...	1028	1028	303	7.2	19.0	15	811	820	160	3	39
11-30	1028	1028	--	--	--	--	--	--	--	--	--
DEC											
01-10	1028	1028	--	--	--	--	--	--	--	--	--
10...	1028	1028	262	7.9	8.0	70	340	8280	130	6	29
JAN											
16...	1028	1028	214	7.8	4.5	30	810	873	100	2	24
MAR											
02...	1028	1028	182	7.6	15.0	75	875	88	83	0	20
APR											
26...	1028	1028	286	7.3	17.0	21	850	827	140	1	34
JUN											
14...	1028	1028	237	8.1	24.5	45	820	230	120	9	29
JUL											
28...	1028	1028	238	8.0	25.0	30	850	820	120	7	32
AUG											
17...	1028	1028	244	7.4	24.0	20	853	817	120	7	31
SEP											
13...	1028	1028	318	7.5	22.5	15	813	820	140	0	34

DATE	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
22...	13	3.2	5	.1	1.3	174	0	143	2.2	4.7	3.5
22-31	--	--	--	--	--	--	--	--	--	--	--
NOV											
01-11	--	--	--	--	--	--	--	--	--	--	--
11...	15	3.1	4	.1	1.5	190	0	156	19	5.4	4.7
11-30	--	--	--	--	--	--	--	--	--	--	--
DEC											
01-10	--	--	--	--	--	--	--	--	--	--	--
10...	14	2.3	4	.1	1.6	151	0	124	3.0	5.0	3.4
JAN											
16...	9.7	3.3	7	.1	2.1	119	0	98	3.0	10	4.7
MAR											
02...	8.0	4.3	10	.2	1.7	101	0	83	4.1	6.6	4.4
APR											
26...	14	2.6	4	.1	1.3	172	0	141	14	5.7	3.6
JUN											
14...	11	4.9	8	.2	1.3	133	0	109	1.7	7.4	6.5
JUL											
28...	10	2.4	4	.1	1.3	139	0	114	2.2	7.9	3.5
AUG											
17...	11	4.0	7	.2	1.3	141	0	116	9.0	7.1	5.7
SEP											
13...	13	10	13	.4	1.8	173	0	142	8.8	9.1	14

07077800 WHITE RIVER AT CLARENDON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT										
22...	.1	5.3	152	151	.21	.14	.44	.58	2.6	.05
22-31	--	--	--	--	--	--	--	--	--	--
NOV										
01-11	--	--	--	--	--	--	--	--	--	--
11...	.1	6.2	142	169	.19	.20	.38	.58	2.6	.05
11-30	--	--	--	--	--	--	--	--	--	--
DEC										
01-10	--	--	--	--	--	--	--	--	--	--
10...	.1	5.8	151	136	.21	.22	.78	1.0	4.4	.14
JAN										
16...	.1	5.7	118	118	.16	.27	.52	.79	3.5	.09
MAR										
02...	.1	5.2	100	100	.14	.22	.95	1.2	5.2	.17
APR										
26...	.1	4.7	154	151	.21	.18	.30	.48	2.1	.06
JUN										
14...	.2	6.8	136	133	.19	.23	.42	.65	2.9	.11
JUL										
28...	.1	5.5	127	131	.17	.27	.43	.70	3.1	.09
AUG										
17...	.1	5.8	139	136	.19	.19	.30	.49	2.2	.07
SEP										
13...	.1	6.7	177	174	.24	.02	.21	.23	1.0	.07

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
OCT											
22...	1	0	1	0	0	0	10	0	10	<50	<50
JAN											
16...	1	1	0	<10	<10	0	0	0	0	<50	<50
APR											
26...	1	0	1	<10	<9	1	0	0	0	<50	<50
JUL											
28...	1	0	1	<10	<10	0	0	0	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT											
22...	0	<10	0	5	640	20	<100	<100	0	100	100
JAN											
16...	0	10	6	4	1300	30	<100	<100	0	80	70
APR											
26...	0	10	7	3	1200	10	<100	<100	0	180	170
JUL											
28...	0	20	17	3	2000	10	<100	<100	0	170	160

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS-PENDED MERCURY (HG) (UG/L) (71895)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
OCT										
22...	0	.0	.0	.0	0	0	0	2	0	2
JAN										
16...	10	.1	.1	.0	0	0	0	--	--	0
APR										
26...	10	.0	.0	.0	0	0	0	140	140	0
JUL										
28...	10	.0	.0	.0	0	0	0	20	20	0

07077800 WHITE RIVER AT CLARENDON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MATERIAL (UG/KG) (39333)	TOTAL ATRAZINE (UG/L) (39630)	TOTAL CHLORDANE (UG/L) (39350)	CHLORDANE IN BOTTOM MATERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MATERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MATERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MATERIAL (UG/KG) (39373)
OCT												
22...	2.5	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND
NOV												
11...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
10...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
16...	3.8	--	--	--	--	--	--	--	--	--	--	--
MAR												
02...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--
APR												
26...	3.9	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	--	ND	--	.51	ND	--	ND	--	ND	--	ND	--
SEP												
13...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL DIAZINON (UG/L) (39570)	DIAZINON IN BOTTOM MATERIAL (UG/KG) (39571)	TOTAL DIELDRIN (UG/L) (39380)	DIELDRIN IN BOTTOM MATERIAL (UG/KG) (39383)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MATERIAL (UG/KG) (39393)	TOTAL ETHION (UG/L) (39398)	ETHION IN BOTTOM MATERIAL (UG/KG) (39399)	TOTAL HEPTACHLOR (UG/L) (39410)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG) (39413)	TOTAL HEPTACHLOR EPOXIDE (UG/L) (39420)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG) (39423)
OCT												
22...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NOV												
11...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
10...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
02...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
SEP												
13...	--	--	--	--	--	--	--	--	--	--	--	--

07077800 WHITE RIVER AT CLARENDON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL LINDANE (UG/L) (39340)	LINDANE IN BOTTOM MATERIAL (UG/KG) (39343)	TOTAL MALATHION (UG/L) (39530)	MALATHION IN BOTTOM MATERIAL (UG/KG) (39531)	TOTAL METHOXYCHLOR (UG/L) (39480)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG) (39481)	TOTAL METHYL PARATHION (UG/L) (39600)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG) (39601)	TOTAL METHYL TRITHION (UG/L) (39790)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG) (39791)	TOTAL PARATHION (UG/L) (39540)
OCT 22...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NOV 11...	--	--	--	--	--	--	--	--	--	--	--
DEC 10...	--	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
APR 26...	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	--	--	--	--	--	--	--	--	--	--	--
JUL 28...	--	--	--	--	--	--	--	--	--	--	--
AUG 17...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
SEP 13...	--	--	--	--	--	--	--	--	--	--	--

DATE	PARATHION IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL((UG/L) (39025)	TOTAL TOXAPHENE (UG/L) (39400)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)	TRITHION IN BOTTOM MATERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)	SUSPENDED SEDIMENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 22...	ND	--	ND	ND	ND	ND	--	--	--	40	94
NOV 11...	--	--	--	--	--	--	--	--	--	43	93
DEC 10...	--	--	--	--	--	--	--	--	--	144	98
JAN 16...	--	--	--	--	--	--	--	--	--	46	100
MAR 02...	--	--	ND	--	ND	--	ND	ND	ND	95	99
APR 26...	--	--	--	--	--	--	--	--	--	59	96
JUN 14...	--	--	--	--	--	--	--	--	--	99	97
JUL 28...	--	--	--	--	--	--	--	--	--	92	97
AUG 17...	--	ND	ND	--	ND	--	ND	ND	ND	77	93
SEP 13...	--	--	--	--	--	--	--	--	--	44	95

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCT. 22, 1975
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
L	....ANKISTRODESMUS			0
	...SCENEDESMACEAE			
D	....SCENEDESMUS		1,100	36
		TOTALS	1,100	36
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		340	11
D	....MELOSIRA		1,300	43
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
L	....AMPHORA			0
L	....CYMBELLA			0
	...FRAGILARIACEAE			
L	....FRAGILARIA			0
	....SYNEDRA		49	2
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		250	8
		TOTALS	1,900	64

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.943
CLASS	0.943
ORDER	1.339
FAMILY	1.403
GENERA	1.806

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NOV. 11, 1975
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

18,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...SCENEDESMACEAE				
	....SCENEDESMUS			1,500	8
			TOTALS	1,500	8
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			8,500	46
D	....MELOSIRA			5,400	30
	..PENNALES	PENNATE			
	...DIATOMACEAE				
	....DIATOMA			260	1
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			260	1
	...NITZSCHIACEAE				
	....NITZSCHIA			2,100	11
			TOTALS	16,000	89
	CYANOPHYTA	BLUE-GREEN ALGAE			
	.MYXOPHYCEAE				
	..CHROOCOCCALES	COCCOID			
	...CHROOCOCCACEAE				
	....ANACYSTIS			260	1
			TOTALS	260	1

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.523
CLASS	0.523
ORDER	1.086
FAMILY	1.216
GENERA	1.950

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DEC. 10, 1975
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		82	6
	...SCENEDESMACEAE			
	....SCENEDESMUS		110	7
		TOTALS	190	13
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		54	4
D	....MELOSIRA		350	24
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		27	2
	....COCCONEIS		27	2
	...CYMBELLACEAE			
	....CYMBELLA		27	2
	...DIATOMACEAE			
	....DIATOMA		27	2
	...FRAGILARIACEAE			
L	....SYNEDRA			0
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		27	2
	...MERIDIONACEAE			
	....MERIDION		27	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		27	2
	...NITZSCHIACEAE			
	....HANTZSCHIA		27	2
		TOTALS	620	44
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		650	44
		TOTALS	650	44

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.427
CLASS	1.427
ORDER	1.824
FAMILY	2.359
GENERA	2.553

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JAN. 16, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

960 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		18	2
	...SCENEDESMACEAE			
L	....ACTINASTRUM			0
	....SCENEDESMUS		99	10
		TOTALS	120	12
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		81	8
D	....MELOSIRA		450	47
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		63	7
	....COCCONEIS		18	2
	...CYMBELLACEAE			
	....CYMBELLA		27	3
	...DIATOMACEAE			
L	....DIATOMA			0
	...FRAGILARIACEAE			
	....FRAGILARIA		54	6
	....SYNEDRA		27	3
	...MERIDIONACEAE			
	....MERIDION		9	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		54	6
	...NITZSCHIACEAE			
	....NITZSCHIA		18	2
		TOTALS	800	85
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE		
	..CHRYSOMONADALES			
	...MALLOMONADACEAE			
	....MALLOMONAS		9	1
		TOTALS	9	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		36	4
		TOTALS	36	4
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....TRACHELOMONAS			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.757
CLASS	0.831
ORDER	1.598
FAMILY	2.307
GENERA	2.789

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 2, 1976
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

530 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...MICRACTINIACEAE			
L	....GOLENKINIA			0
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		17	3
		TOTALS	17	3
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		150	29
L	....MELOSIRA			0
	....STEPHANODISCUS		17	3
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		34	6
	...CYMBELLACEAE			
	....CYMBELLA		68	13
	...DIATOMACEAE			
	....DIATOMA		17	3
	...FRAGILARIACEAE			
	....SYNEDRA		34	6
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		100	19
	...NITZSCHIACEAE			
	....HANTZSCHIA		17	3
	....NITZSCHIA		68	13
		TOTALS	510	95
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
L	....APHANIZOMENON			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.206
CLASS	0.206
ORDER	1.094
FAMILY	2.621
GENERA	2.888

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APR. 26, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,900 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...MICRACTINIACEAE				
	....MICRACTINIUM			470	10
	...OOCYSTACEAE				
	....ANKISTRODESMUS			120	2
L	....OOCYSTIS				0
	...SCENEDESMACEAE				
L	....SCENEDESMUS				0
			TOTALS	580	12
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			2,000	40
D	....MELOSIRA			1,500	31
	..PENNALES	PENNATE			
	...ACHNANTHACEAE				
	....ACHNANTHES			120	2
	....COCCONEIS			120	2
	...CYMBELLACEAE				
	....CYMBELLA			230	5
	...DIATOMACEAE				
L	....DIATOMA				0
	...FRAGILARIACEAE				
	....SYNEDRA			120	2
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			120	2
			TOTALS	4,200	84
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....EUGLENA			120	2
			TOTALS	120	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.685
CLASS	0.685
ORDER	1.242
FAMILY	1.602
GENERA	2.354

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JUNE 14, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

10,000 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
D	....DICTYOSPHAERIUM			6,200	61
			TOTALS	6,200	61
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			2,500	25
	....MELOSIRA			570	6
	..PENNALES	PENNATE			
	...ACHNANTHACEAE				
	....ACHNANTHES			140	1
	...NAVICULACEAE	NAVICULOID			
	....GYROSIGMA			140	1
	....NAVICULA			140	1
	...NITZSCHIACEAE				
	....NITZSCHIA			140	1
	...SURIRELLACEAE				
	....SURIRELLA			140	1
			TOTALS	3,800	36
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....EUGLENA			140	1
			TOTALS	140	1

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.051
CLASS	1.051
ORDER	1.310
FAMILY	1.443
GENERA	1.680

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JULY 28, 1976
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

940 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....WESTELLA		100	11
	...SCENEDESMACEAE			
	....CRUCIGENIA		33	4
	....SCENEDESMUS		50	5
		TOTALS	180	20
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....MELOSIRA		170	18
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		25	3
	....COCCONEIS		33	4
	...CYMBELLACEAE			
	....CYMBELLA		17	2
	...DIATOMACEAE			
	....DIATOMA		17	2
	...FRAGILARIACEAE			
	....SYNEDRA		8	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		25	3
	...NITZSCHIACEAE			
	....NITZSCHIA		33	4
		TOTALS	320	37
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		330	35
	...RIVULARIACEAE			
	....RAPHIDIOPSIS		100	11
		TOTALS	430	46

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.505
CLASS	1.505
ORDER	1.850
FAMILY	2.794
GENERA	2.941

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 17, 1976
1115 HOURS

IDENTIFICATION OF PHYTOPLANKTON

330 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		4	1
	....POLYDRIOPSIS		4	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		4	1
		TOTALS	13	3
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		13	4
D	....MELOSIRA		61	19
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
D	....ASTERIONELLA		83	25
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		4	1
	...NITZSCHIACEAE			
	....NITZSCHIA		31	9
	...SURIRELLACEAE			
	....SURIRELLA		4	1
	...TABELLARIACEAE			
	....TABELLARIA		4	1
		TOTALS	200	60
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		110	35
		TOTALS	110	35

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.148
CLASS	1.148
ORDER	1.731
FAMILY	2.308
GENERA	2.487

07077800 WHITE RIVER AT CLARENDON, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SEP. 13, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

11,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....ANKISTRODESMUS			600	5
	...SCENEDESMACEAE				
	....CRUCIGENIA			350	3
			TOTALS	950	8
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			5,800	51
D	....MELOSIRA			2,200	19
	..PENNALES	PENNATE			
	...FRAGILARIACEAE				
	....SYNEDRA			86	1
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			86	1
	...NITZSCHIACEAE				
	....NITZSCHIA			860	8
			TOTALS	9,000	80
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE			
	..CHRYSOMONADALES				
	...OCHROMONADACEAE				
	....OCHROMONAS			260	2
			TOTALS	260	2
	CYANOPHYTA	BLUE-GREEN ALGAE			
	.MYXOPHYCEAE				
	..CHROOCOCCALES	COCCOID			
	...CHROOCOCCACEAE				
	....ANACYSTIS			1,200	11
			TOTALS	1,200	11

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.888
CLASS 1.037
ORDER 1.444
FAMILY 1.597
GENERA 2.185

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
NOV. 11	20	6.5	6.1	0.4	6.5	0.0	71	POLYETHYLENE STRIP
DEC. 10	29	28	23	5	48	6.1	95	POLYETHYLENE STRIP

07077800 WHITE RIVER AT CLARENDON, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	296	269	192	195	143	201	264	300	138	234	274
2	221	324	280	200	199	177	211	264	241	142	239	296
3	206	323	---	192	186	149	191	270	236	148	243	250
4	229	310	215	184	203	166	158	256	210	162	254	268
5	230	314	264	167	196	181	175	261	208	140	255	278
6	224	306	276	162	196	164	177	260	217	187	255	293
7	200	300	247	174	212	189	202	259	209	189	256	266
8	243	275	249	172	232	159	199	265	214	196	249	296
9	279	297	240	169	236	206	194	273	222	174	246	---
10	239	314	245	170	234	184	221	266	218	172	235	314
11	---	304	190	179	215	154	210	263	217	152	246	259
12	258	308	192	183	232	177	211	280	225	171	243	291
13	228	296	185	201	233	180	210	276	224	177	240	292
14	253	300	198	184	231	120	229	272	224	179	242	285
15	272	---	202	185	254	123	225	293	235	194	234	291
16	297	---	206	193	263	199	230	305	240	190	254	292
17	250	342	203	207	276	192	235	294	255	197	253	292
18	299	322	199	216	250	175	258	284	244	198	260	276
19	295	305	204	242	226	184	268	277	236	206	285	302
20	272	296	222	235	156	203	281	272	232	219	241	302
21	242	286	216	235	222	162	280	271	217	234	245	280
22	278	276	216	245	140	154	290	298	208	215	272	292
23	286	299	215	231	128	206	285	320	213	216	257	299
24	252	316	214	228	128	206	279	301	229	218	260	292
25	263	318	205	241	158	204	290	299	232	220	243	294
26	303	281	212	244	137	218	290	302	166	223	261	289
27	320	309	205	249	162	212	283	299	156	230	273	300
28	310	250	212	203	156	213	274	284	164	237	268	289
29	300	224	197	231	166	204	270	291	166	231	290	314
30	294	253	197	199	---	190	269	305	152	234	---	326
31	284	---	204	189	---	191	---	283	---	233	252	---
MONTH	262	298	219	203	201	180	237	281	217	194	253	289

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	11.5	9.0	6.0	7.0	12.0	15.5	15.0	20.0	24.0	24.5	23.5
2	18.0	12.0	9.0	7.0	6.0	13.0	15.5	14.5	20.0	24.5	24.0	23.5
3	18.0	12.5	---	7.0	6.0	13.0	15.5	15.5	20.0	24.5	23.0	23.0
4	18.0	12.5	8.0	6.0	7.0	13.5	15.5	15.0	20.0	24.5	23.0	22.5
5	18.0	12.5	10.0	6.0	6.0	15.5	15.0	15.0	20.5	24.5	22.5	22.0
6	18.0	12.0	10.0	6.0	6.0	14.0	15.0	15.5	20.0	24.5	23.0	22.0
7	17.0	12.0	9.0	2.0	6.0	14.5	15.5	15.5	20.0	24.5	23.0	23.0
8	17.0	12.5	9.0	2.0	6.0	14.0	16.0	16.0	20.5	25.0	---	23.0
9	18.0	12.5	9.0	2.0	6.0	13.0	15.5	16.0	21.0	25.0	23.0	---
10	18.0	13.0	9.0	2.0	6.0	13.0	15.5	16.5	20.5	25.0	22.5	23.0
11	18.0	15.0	9.0	4.0	6.0	12.5	15.0	17.0	21.5	25.0	22.0	23.0
12	18.0	15.0	9.0	5.0	7.0	13.0	15.5	18.0	22.0	24.5	22.0	23.0
13	18.0	15.0	9.0	5.0	8.0	12.0	16.0	18.5	22.5	25.0	22.0	23.0
14	18.0	16.0	12.0	5.0	8.0	12.0	16.0	18.0	22.5	25.0	22.0	22.5
15	19.0	16.0	10.0	5.0	10.0	12.5	16.5	19.0	23.0	25.0	23.0	22.0
16	19.0	16.0	---	5.0	9.0	12.0	16.5	19.0	23.5	25.0	23.0	22.0
17	19.0	16.0	9.0	5.0	10.0	11.0	16.0	19.0	24.0	25.0	24.0	22.0
18	19.0	16.0	8.0	5.0	9.0	11.5	16.5	18.5	24.0	25.0	24.0	22.5
19	18.0	16.0	7.0	5.0	11.0	12.0	16.0	18.5	24.0	25.0	24.0	23.0
20	18.0	16.0	7.0	5.0	12.0	14.0	18.0	18.0	23.5	25.0	23.5	23.0
21	16.0	15.0	7.0	5.0	10.0	14.0	18.0	19.0	24.0	25.0	24.0	22.0
22	17.0	14.0	7.0	5.0	10.0	14.0	18.0	20.0	23.5	25.0	24.0	25.5
23	17.0	17.0	6.0	5.0	11.0	14.5	18.5	20.0	24.5	24.5	24.0	22.0
24	17.0	12.0	6.0	6.0	12.0	15.0	19.0	20.0	24.0	24.5	24.0	22.0
25	16.0	11.0	6.0	5.0	12.0	15.0	19.0	20.5	23.5	24.5	23.5	22.0
26	16.0	11.0	6.0	6.0	12.0	15.0	19.0	20.5	23.0	24.5	23.5	22.0
27	16.0	---	7.0	6.0	12.0	15.0	17.5	20.0	23.5	24.5	24.0	22.0
28	16.0	10.0	6.0	7.0	12.0	15.0	17.0	19.5	23.0	24.5	24.0	21.5
29	16.0	9.0	6.0	7.0	12.0	15.0	15.0	19.5	23.0	24.5	24.0	21.0
30	15.0	10.0	6.0	7.0	---	15.0	15.0	20.0	24.0	24.5	---	20.5
31	15.0	---	6.0	7.0	---	15.0	---	20.0	---	24.5	23.0	---
MONTH	17.5	13.5	8.0	5.0	9.0	13.5	16.5	18.0	22.5	24.5	23.5	22.5

07077820 WHITE RIVER AT ST. CHARLES, AR

LOCATION.--Lat 34°22'38", long 91°07'32", in SW¼NE¼ sec.4, T.4 S., R.1 W., Arkansas County, at St. Charles Ferry on west bank at State Highway 1, and 0.4 mi (0.6 km) east of St. Charles.

DRAINAGE AREA.--25,809 mi^2 (66,845 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)
OCT										
27...	9827	9827	245	8.2	15.0	17.0	15	15	9.6	99
DEC										
01...	9827	9827	211	8.1	4.0	9.0	10	15	11.1	95
29...	9827	9827	194	7.8	10.0	7.0	60	40	10.8	89
JAN										
06...	9827	9827	211	7.9	5.0	6.0	80	75	11.0	88
FEB										
03...	9827	9827	201	8.0	10.0	6.0	80	55	10.7	86
MAR										
02...	9827	9827	166	7.8	24.0	15.0	60	100	8.6	84
APR										
05...	9827	9827	187	7.7	16.0	17.0	100	85	8.1	84
MAY										
25...	9827	9827	--	--	24.0	23.0	10	65	8.5	98
JUN										
14...	9827	9827	--	--	32.0	25.0	20	75	7.1	85
JUL										
12...	9827	9827	--	--	32.0	27.0	40	70	6.2	76
AUG										
09...	9827	9827	262	8.0	30.0	24.0	20	40	7.8	92
SEP										
13...	9827	9827	286	8.2	23.0	22.0	10	20	8.4	95

DATE	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)
OCT										
27...	2.2	740	7	10	140	1	32	80	16	3.4
DEC										
01...	2.4	180	60	<5	--	--	--	--	--	--
29...	1.6	440	50	--	--	--	--	--	--	--
JAN										
06...	2.3	40	120	170	--	--	--	--	--	--
FEB										
03...	1.6	150	40	80	--	--	--	--	--	--
MAR										
02...	4.9	260	67	--	86	8	20	50	9.0	2.9
APR										
05...	1.5	--	--	--	--	--	--	--	--	--
MAY										
25...	2.0	1100	5	60	--	--	--	--	--	--
JUN										
14...	1.1	580	16	32	--	--	32	80	9.0	--
JUL										
12...	3.6	520	70	36	--	--	--	--	--	--
AUG										
09...	3.8	280	<5	20	--	--	--	--	--	--
SEP										
13...	1.7	100	95	--	170	47	38	94	17	4.6

07077820 WHITE RIVER AT ST. CHARLES, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)
OCT										
27...	1.4	170	0	139	1.7	<1.0	25	167	20	187
DEC										
01...	--	--	--	--	--	1.0	5.0	122	32	154
29...	--	--	--	--	--	3.0	5.0	137	48	185
JAN										
06...	--	--	--	--	--	4.0	6.0	138	376	514
FEB										
03...	--	--	--	--	--	3.0	7.5	193	16	209
MAR										
02...	2.7	95	0	78	2.4	2.0	6.0	156	83	239
APR										
05...	--	--	--	--	--	6.0	5.0	155	77	232
MAY										
25...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	--	90	--	74	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	--	--	5.0	5.0	151	76	227
SEP										
13...	1.7	150	0	123	1.5	<1.0	7.5	165	54	219

DATE	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT										
27...	.32	.03	<3	<10	0	<10	460	10	63	20
DEC										
01...	.31	.02	--	--	--	--	--	--	--	--
29...	.24	.08	--	--	--	--	--	--	--	--
JAN										
06...	1.2	.09	--	--	--	--	--	--	--	--
FEB										
03...	.43	.08	--	--	--	--	--	--	--	--
MAR										
02...	.34	.14	<3	<10	<3	<10	4600	<10	130	20
APR										
05...	.29	.12	--	--	--	--	--	--	--	--
MAY										
25...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	--	--	<3	--	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	.38	.07	--	--	--	--	--	--	--	--
SEP										
13...	<.10	.04	<3	<10	<3	<10	1000	<10	110	<10

07077950 BIG CREEK AT POPLAR GROVE, AR

LOCATION.--Lat 34°33'20", long 90°50'44", in sec.1, T.2 S., R.2 E., Phillips County, near right bank on downstream side of bridge on U.S. Highway 49, at Poplar Grove, 900 ft (274 m) upstream from Crooked Creek, and 3.9 mi (6.3 km) east of Marvel.

DRAINAGE AREA.--448 mi^2 (1,160 km^2), includes that of Crooked Creek. Area at site used prior to September 30, 1972, 459 mi^2 (1,189 km^2).

PERIOD OF RECORD.--October 1970 to current year. Prior to September 30, 1972, published as 07077952 Big Creek near Poplar Grove. Gage-height record and results of discharge measurements at same site since August 1954 are contained in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 143.00 ft (43.586 m) above mean sea level. Auxiliary water-stage recorder 8.7 mi (14.0 km) downstream at same datum. October 1970 to September 1972, the downstream site was used as base gage.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, 593 ft^3/s (16.8 m^3/s), 429,600 acre-ft/yr (530 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft^3/s (167 m^3/s) Apr. 23, 1973, gage height, 31.74 ft (9.674 m); no flow June 18-27, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1954, 31.74 ft (9.674 m) Apr. 23, 1973, discharge, 5,910 ft^3/s (167 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft^3/s (68.8 m^3/s) Mar. 10; maximum gage height, 28.06 ft (8.553 m) Mar. 10; minimum discharge, 3.5 ft^3/s (0.099 m^3/s) Oct. 24, gage height, 12.28 ft (3.743 m).

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	74	6.3	325	238	225	763	862	56	792	172	8.0	83
2	68	6.2	303	323	278	758	777	54	791	165	9.5	127
3	60	5.4	226	458	314	748	700	50	763	160	19	165
4	51	9.5	161	517	338	735	659	43	733	163	22	204
5	42	22	126	507	393	975	647	35	706	174	24	245
6	34	131	198	486	519	1350	636	226	677	183	23	274
7	29	284	276	475	545	1260	628	597	644	181	21	297
8	24	160	251	478	516	1290	618	481	608	174	21	320
9	19	58	211	459	488	2120	601	343	571	158	22	353
10	15	23	181	433	463	2400	576	231	535	138	22	369
11	12	20	168	417	456	2380	547	163	500	122	24	370
12	9.8	19	160	397	468	2280	528	128	466	110	25	373
13	7.8	14	155	368	483	2160	499	118	427	86	25	378
14	6.5	11	160	328	492	2040	451	165	379	71	23	382
15	5.7	9.1	200	281	491	1880	383	163	318	58	22	385
16	5.2	7.8	301	244	478	1690	295	182	268	46	23	385
17	5.2	7.0	305	209	474	1490	218	145	213	36	24	382
18	4.6	6.7	250	178	626	1330	171	95	117	29	25	377
19	4.3	6.8	193	154	849	1200	141	67	367	23	26	370
20	4.3	6.9	172	138	761	1100	115	47	355	18	26	362
21	4.5	7.0	163	133	657	1000	95	35	219	14	27	352
22	4.4	7.4	166	127	773	912	78	28	148	12	32	341
23	4.1	7.7	168	119	746	822	70	21	129	10	39	327
24	3.6	7.4	161	114	740	734	92	416	130	9.4	45	309
25	12	7.6	176	212	755	646	235	444	255	9.2	49	287
26	13	20	266	270	752	560	186	351	354	8.6	50	255
27	14	59	305	207	752	483	127	392	315	8.0	50	223
28	16	59	266	159	756	393	94	567	253	7.4	48	180
29	12	35	227	132	764	433	75	747	202	7.2	47	129
30	7.0	121	213	126	---	686	64	821	173	14	53	85
31	5.9	---	221	164	---	893	---	813	---	14	61	---
TOTAL	577.9	1144.8	6654	8851	16352	37511	11168	8024	12408	2380.8	935.5	8689
MEAN	18.6	38.2	215	286	564	1210	372	259	414	76.8	30.2	290
MAX	74	284	325	517	849	2400	862	821	792	183	61	385
MIN	3.6	5.4	126	114	225	393	64	21	117	7.2	8.0	83
AC-FT	1150	2270	13200	17560	32430	74400	22150	15920	24610	4720	1860	17230

CAL YR 1975 TOTAL 253749.7 MEAN 695 MAX 4160 MIN 3.6 AC-FT 503300
WTR YR 1976 TOTAL 114696.0 MEAN 313 MAX 2400 MIN 3.6 AC-FT 227500

07077960 BIG CREEK NEAR WATKINS CORNER, AR

LOCATION.--Lat 34°24'48", long 90°56'42", in NE¼SE¼ sec.24, T.3 S., R.1 E., Phillips County, at bridge on State Highway 318, 3.5 mi (5.6 km) upstream from Little Cypress Creek, and 3.8 mi (6.1 km) south of Watkins Corner.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
27...	9827	9827	22	556	7.9	15.0	15.0	20	20	7.0
DEC										
01...	9827	9827	520	91	7.1	4.0	10.0	200	7	5.8
29...	9827	9827	360	144	7.4	11.0	6.0	200	140	9.5
JAN										
06...	9827	9827	780	134	7.6	6.0	4.0	120	220	10.4
FEB										
03...	9827	9827	500	325	8.0	10.0	7.0	50	30	9.4
MAR										
02...	9827	9827	1200	135	7.5	24.0	17.0	200	180	7.4
APR										
28...	9827	9827	150	204	7.5	24.0	18.0	800	700	8.2
MAY										
19...	9827	9827	110	212	7.8	28.0	22.0	180	170	5.5
JUN										
21...	9827	9827	350	95	7.1	28.0	24.0	120	550	5.7
JUL										
26...	9827	9827	14	615	7.8	37.0	32.0	30	15	4.9
AUG										
23...	9827	9827	62	624	8.1	32.0	28.0	20	65	5.9
SEP										
27...	9827	9827	--	460	7.9	22.0	22.0	35	30	6.1

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS $CaCO_3$ (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
27...	69	1.7	880	160	360	256	0	48	120	33
DEC										
01...	52	4.9	6000	110000	13000	--	--	--	--	--
29...	76	2.9	1000	1200	--	--	--	--	--	--
JAN										
06...	79	3.2	<100	1500	4600	--	--	--	--	--
FEB										
03...	77	2.0	100	100	100	--	--	--	--	--
MAR										
02...	76	3.2	530	280	--	52	26	12	30	5.0
APR										
28...	86	2.7	2000	1000	--	--	--	--	--	--
MAY										
19...	63	1.4	50	130	--	--	--	--	--	--
JUN										
21...	67	3.3	2800	500	1000	78	41	10	26	13
JUL										
26...	66	75	770	380	200	--	--	--	--	--
AUG										
23...	75	1.6	370	50	<100	--	--	--	--	--
SEP										
27...	69	.9	>190	190	170	230	--	52	130	24

07077960 BIG CREEK NEAR WATKINS CORNER, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
27...	36	3.7	380	0	312	7.7	45	34	404	35
DEC										
01...	--	--	--	--	--	--	6.0	12	165	800
29...	--	--	--	--	--	--	4.0	11	184	80
JAN										
06...	--	--	--	--	--	--	4.0	10	186	152
FEB										
03...	--	--	--	--	--	--	14	19	204	28
MAR										
02...	7.4	5.0	32	0	26	1.6	3.0	8.0	243	85
APR										
28...	--	--	--	--	--	--	<1.0	8.0	325	325
MAY										
19...	--	--	--	--	--	--	3.0	8.0	176	102
JUN										
21...	--	--	45	0	37	5.7	<1.0	5.0	310	372
JUL										
26...	--	--	--	--	--	--	19	17	343	25
AUG										
23...	--	--	--	--	--	--	19	20	378	98
SEP										
27...	24	3.9	--	0	--	--	7.0	30	268	43

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
27...	439	.52	.15	<3	<10	0	<10	1100	30	600
DEC										
01...	965	1.4	.99	--	--	--	20	33000	--	1000
29...	264	.50	.39	--	--	--	<10	5400	--	170
JAN										
06...	338	1.0	.37	--	--	--	10	7400	--	230
FEB										
03...	232	.18	.11	--	--	--	<10	1500	--	320
MAR										
02...	328	.36	.33	<3	<10	<3	<10	10000	<10	280
APR										
28...	650	1.0	.74	--	--	--	210	24000	--	1100
MAY										
19...	278	.41	.28	--	--	--	260	8600	--	950
JUN										
21...	682	1.0	.71	<3	--	--	30	28000	--	720
JUL										
26...	368	.51	.11	--	--	--	<10	570	--	2100
AUG										
23...	476	.42	.12	--	<10	--	20	3000	--	230
SEP										
27...	311	<.10	.14	--	<10	<3	<10	860	<10	210

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
27...	40	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
01...	130	--	--	--	--	--	--	--	--
29...	20	--	--	--	--	--	--	--	--
JAN									
06...	30	--	--	--	--	--	--	--	--
FEB									
03...	<10	.00	.00	.00	.00	.01	.00	.00	<1
MAR									
02...	30	--	--	--	--	--	--	--	--
APR									
28...	150	--	--	--	--	--	--	--	--
MAY									
19...	120	--	--	--	--	--	--	--	--
JUN									
21...	100	.00	.02	.08	.02	.03	.00	.00	<1
JUL									
26...	<10	.00	.00	.00	.00	.00	.00	.00	<1
AUG									
23...	20	.00	.00	.00	.00	.00	.00	.00	<1
SEP									
27...	20	.00	.00	.00	.00	.00	.00	.00	<1

07078285 WHITE RIVER AT LOCK AND DAM 1, NEAR NADY, AR

LOCATION.--Lat 34°01'35", long 91°11'08", in sec.1, T.8 S., R.2 W., Arkansas County, at Lock and Dam 1, 3.4 mi 5.5 km) northeast of Nady.

PERIOD OF RECORD.--October 1970 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER-ATURE (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)
OCT												
27...	9827	9827	255	8.1	14.0	17.0	10	15	9.0	93	1.6	200
NOV												
04...	9827	9827	--	--	--	--	--	--	--	--	--	--
DEC												
01...	9827	9827	218	8.0	3.0	9.0	30	80	11.0	95	3.3	280
29...	9827	9827	220	7.9	10.0	7.0	60	55	10.9	90	1.4	590
JAN												
06...	9827	9827	214	8.3	4.0	6.0	80	80	10.8	86	1.5	700
FEB												
03...	9827	9827	185	8.0	7.0	6.0	80	70	10.8	86	2.3	220
MAR												
02...	9827	9827	176	7.4	23.0	15.0	100	55	6.2	61	3.0	220
APR												
05...	9827	9827	191	7.7	13.0	17.0	120	70	8.1	84	2.0	460
MAY												
25...	9827	9827	277	8.1	23.0	23.0	15	75	8.8	101	3.5	<25
JUN												
14...	9827	9827	235	8.0	31.0	26.0	30	150	7.1	87	1.8	520
JUL												
12...	9827	9827	199	7.7	29.0	27.0	50	65	6.2	77	4.6	440
13...	9827	9827	--	--	--	--	--	--	--	--	--	--
AUG												
09...	9827	9827	271	8.0	27.0	25.0	30	50	7.7	92	2.6	600
SEP												
13...	9827	9827	308	8.2	24.0	23.0	15	30	8.6	99	5.0	320

DATE	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT												
27...	50	210	140	9	33	82	13	3.1	1.4	160	0	131
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	210	680	--	--	--	--	--	--	--	--	--	--
29...	120	--	--	--	--	--	--	--	--	--	--	--
JAN												
06...	150	300	--	--	--	--	--	--	--	--	--	--
FEB												
03...	70	100	--	--	--	--	--	--	--	--	--	--
MAR												
02...	210	--	68	10	17	42	6.0	8.9	2.6	71	0	58
APR												
05...	70	90	--	--	--	--	--	--	--	--	--	--
MAY												
25...	10	30	--	--	--	--	--	--	--	--	--	--
JUN												
14...	44	50	110	3	28	70	10	--	--	130	0	107
JUL												
12...	29	20	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	20	47	--	--	--	--	--	--	--	--	--	--
SEP												
13...	25	--	170	31	43	110	16	6.7	1.9	170	0	139

07078285 WHITE RIVER AT LOCK AND DAM 1, NEAR NADY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
27...	2.0	2.0	7.5	164	33	197	.33	.05	<3	<10	0	<10
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	11	9.0	141	144	285	.32	.12	--	--	--	--
29...	--	5.0	6.0	146	45	191	.16	.08	--	--	--	--
JAN												
06...	--	3.0	6.5	138	61	199	.44	.01	--	--	--	--
FEB												
03...	--	4.0	7.0	188	45	233	.44	.05	--	--	--	--
MAR												
02...	4.5	5.0	14	140	36	176	.13	.11	<3	<10	<3	<10
APR												
05...	--	1.0	6.5	150	47	197	.30	.14	--	--	--	--
MAY												
25...	--	3.0	8.0	163	83	246	.25	.09	--	--	--	--
JUN												
14...	2.1	3.0	9.0	177	155	332	.47	.15	<3	--	--	--
JUL												
12...	--	1.0	5.0	132	113	245	.45	.12	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	--	8.0	5.0	160	109	269	.41	.01	--	--	--	--
SEP												
13...	1.7	4.0	12	188	27	215	<.10	.06	<3	<10	<3	20

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
27...	340	<10	26	20	.00	.00	.00	.00	.00	.00	.00	<1
NOV												
04...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
03...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
MAR												
02...	2800	<10	52	10	--	--	--	--	--	--	--	--
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
SEP												
13...	1700	<10	160	10	.00	.00	.00	.00	.00	.00	.01	<1

07188820 LITTLE SUGAR CREEK AT CAVERNA, MO

LOCATION.--Lat 36°30'10", long 94°16'30", in SW¼NE¼ sec.34, T.21 N., R.31 W., McDonald County, at bridge on U.S. Highway 71, 0.5 mi (0.8 km) north of Caverna, Mo., and 0.1 mi (0.2 km) downstream from Bear Creek.

DRAINAGE AREA.--118 mi^2 (306 km^2), at State line.

PERIOD OF RECORD.--August 1967 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
21...	9827	9827	129	264	7.6	28.0	19.0	5	1	11.3
NOV										
24...	9827	9827	12	258	8.0	.0	7.0	5	10	11.6
DEC										
17...	9827	9827	67	232	8.0	.0	6.0	5	6	10.8
JAN										
27...	9827	9827	23	292	8.2	6.0	9.0	5	2	14.2
FEB										
24...	9827	9827	23	285	8.1	20.0	15.0	5	4	12.3
MAR										
23...	9827	9827	39	267	8.3	22.0	17.0	10	20	12.9
APR										
20...	9827	9827	--	191	7.8	22.0	18.0	160	450	8.8
MAY										
24...	9827	9827	--	258	7.8	--	--	30	--	9.2
JUN										
21...	9827	9827	20	310	8.0	31.0	23.0	5	<25	10.5
JUL										
21...	9827	9827	38	302	7.8	35.0	27.0	10	2	11.4
AUG										
18...	9827	9827	28	310	8.0	29.0	26.0	5	45	9.0
SEP										
15...	9827	9827	14	316	8.0	27.0	23.0	5	2	10.0

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
21...	121	2.2	14	20	--	--	--	--	--	--
NOV										
24...	95	2.4	24	<7	20	130	0	50	120	<1.0
DEC										
17...	86	1.1	380	240	--	--	--	--	--	--
JAN										
27...	122	2.5	13	<5	5	--	--	--	--	--
FEB										
24...	121	2.2	40	5	5	--	--	--	--	--
MAR										
23...	131	2.3	24	8	28	130	0	51	130	<1.0
APR										
20...	93	3.9	--	--	--	--	--	--	--	--
MAY										
24...	--	2.8	--	--	--	--	--	--	--	--
JUN										
21...	121	2.7	110	20	40	140	9	54	140	<1.0
JUL										
21...	141	3.6	860	290	--	--	--	--	--	--
AUG										
18...	110	2.1	460	160	--	140	9	53	130	2.0
SEP										
15...	115	4.7	13	130	--	170	31	65	160	2.0

07188820 LITTLE SUGAR CREEK AT CAVERNA, MO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
21...	--	--	--	--	--	--	6.0	13	178	4
NOV										
24...	7.2	1.9	170	0	139	2.7	--	12	--	--
DEC										
17...	--	--	--	--	--	--	4.0	7.5	176	10
JAN										
27...	--	--	--	--	--	--	4.0	7.0	162	19
FEB										
24...	--	--	--	--	--	--	3.0	10	163	6
MAR										
23...	4.4	1.6	160	0	131	1.3	3.0	7.5	146	28
APR										
20...	--	--	--	--	--	--	6.0	3.0	176	588
MAY										
24...	--	--	--	--	--	--	4.0	6.5	155	28
JUN										
21...	6.3	1.5	160	0	131	2.6	2.0	--	169	5
JUL										
21...	--	--	--	--	--	--	5.0	6.0	170	5
AUG										
18...	--	--	160	--	131	2.6	4.0	--	169	208
SEP										
15...	5.8	1.8	170	0	139	2.7	1.0	--	171	37

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
21...	182	2.6	.46	--	<10	0	<10	20	<10	7
NOV										
24...	--	1.5	.15	<3	<10	0	<10	510	<10	62
DEC										
17...	186	1.8	.14	--	--	--	--	--	--	--
JAN										
27...	181	--	--	--	--	--	--	--	--	--
FEB										
24...	169	1.4	.20	--	--	--	--	--	--	--
MAR										
23...	174	1.4	.15	<3	<10	<3	<10	320	<10	44
APR										
20...	764	1.0	.36	--	--	--	--	--	--	--
MAY										
24...	183	1.5	.20	--	--	--	--	--	--	--
JUN										
21...	174	.70	.14	<3	<10	<3	<10	60	<10	<27
JUL										
21...	175	.93	.12	--	--	--	--	--	--	--
AUG										
18...	377	.98	.26	<3	<10	--	<10	1300	--	240
SEP										
15...	208	.70	.16	<3	<10	<3	<10	>6	<10	24

07188820 LITTLE SUGAR CREEK AT CAVERNA, MO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
21...	<10	--	--	--	--	--	--	--	--
NOV									
24...	<10	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
17...	--	--	--	--	--	--	--	--	--
JAN									
27...	--	--	--	--	--	--	--	--	--
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
23...	<10	--	--	--	--	--	--	--	--
APR									
20...	--	--	--	--	--	--	--	--	--
MAY									
24...	--	--	--	--	--	--	--	--	--
JUN									
21...	<10	--	--	--	--	--	--	--	--
JUL									
21...	--	--	--	--	--	--	--	--	--
AUG									
18...	<10	--	--	--	--	--	--	--	--
SEP									
15...	<10	--	--	--	--	--	--	--	--

07188910 BUTLER CREEK NEAR SULPHUR SPRINGS, AR

LOCATION.--Lat 36°30'44", long 94°28'54", in NW¼NW¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., at bridge on county road about 500 ft (152 m) west of State Highway 59, 0.9 mi (1.4 km) north of State line along Highway 59, 2.0 mi (3.2 km) northwest of Sulphur Springs.

DRAINAGE AREA.--34.9 mi^2 (90.4 km^2), at State line.

PERIOD OF RECORD.--October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
OCT												
06...	9827	9827	15	262	7.9	21.0	18.0	5	2	10.7	113	1.5
NOV												
03...	9827	9827	15	285	8.0	24.0	21.0	5	1	10.8	121	1.6
DEC												
08...	9827	9827	35	227	7.8	9.0	12.0	5	4	10.1	93	.7
JAN												
12...	9827	9827	40	285	8.2	13.0	11.0	0	2	13.4	120	2.5
FEB												
09...	9827	9827	33	318	8.2	20.0	9.0	5	1	13.9	119	3.0
MAR												
10...	9827	9827	56	270	8.1	20.0	15.0	10	3	11.2	110	1.3
APR												
07...	9827	9827	42	298	8.3	27.0	17.0	5	1	12.0	123	1.4
MAY												
05...	9827	9827	47	290	8.2	22.0	17.0	5	3	9.9	102	1.5
JUN												
07...	9827	9827	64	319	8.0	26.0	21.0	5	<25	9.1	100	1.0
JUL												
07...	9827	9827	240	291	8.0	29.0	21.0	5	2	9.2	102	1.4
AUG												
04...	9827	9827	2.0	314	8.2	27.0	24.0	5	4	9.9	116	2.1
31...	9827	9827	1.0	330	8.0	23.0	21.0	5	2	8.6	95	1.6

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)
OCT												
06...	<10	<5	73	140	42	49	120	3.0	4.6	1.6	120	0
NOV												
03...	<10	20	33	--	--	--	--	--	--	--	--	--
DEC												
08...	520	240	450	--	--	--	--	--	--	--	--	--
JAN												
12...	30	10	<7	--	--	--	--	--	--	--	--	--
FEB												
09...	7	<4	--	140	1	47	120	5.0	4.2	.9	170	0
MAR												
10...	13	150	--	--	--	--	--	--	--	--	--	--
APR												
07...	150	44	--	--	--	--	--	--	--	--	--	--
MAY												
05...	250	68	--	150	19	49	120	6.0	3.4	1.2	160	0
JUN												
07...	230	76	40	--	--	--	--	--	--	--	--	--
JUL												
07...	<7	<4	--	--	--	--	--	--	--	--	--	--
AUG												
04...	150	28	--	160	21	53	130	7.0	5.8	1.4	170	0
31...	<7	8	--	--	--	--	--	--	--	--	--	--

07188910 BUTLER CREEK NEAR SULPHUR SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)
OCT												
06...	98	2.4	6.0	8.5	195	2	197	.82	<.01	<3	<10	0
NOV												
03...	--	--	--	10	196	1	197	.55	<.01	--	--	--
DEC												
08...	--	--	5.0	5.0	160	5	165	1.5	.01	--	--	--
JAN												
12...	--	--	7.0	7.0	--	--	--	1.2	<.01	--	--	--
FEB												
09...	139	1.7	5.0	8.0	176	6	182	.94	<.01	<3	<10	<3
MAR												
10...	--	--	7.0	5.0	163	2	165	.59	<.01	--	--	--
APR												
07...	--	--	16	5.5	172	11	183	.77	.03	--	--	--
MAY												
05...	131	1.6	3.0	5.0	157	32	189	.65	.01	<3	<10	<3
JUN												
07...	--	--	3.0	6.0	181	13	194	.68	<.01	--	--	--
JUL												
07...	--	--	5.0	4.0	--	--	--	.61	<.01	--	--	--
AUG												
04...	139	1.7	1.0	7.0	188	7	195	.77	<.01	--	--	--
31...	--	--	4.0	10	--	--	--	.75	.03	--	--	--

DATE	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL TOXAPHENE (UG/L) (39400)
OCT												
06...	<10	12	<10	3	<10	--	--	--	--	--	--	--
NOV												
03...	<10	17	--	0	20	--	--	--	--	--	--	--
DEC												
08...	--	--	--	--	--	.00	.00	.00	.00	.00	.00	<1
JAN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
09...	<10	<17	<10	<27	<10	--	--	--	--	--	--	--
MAR												
10...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	<10	<17	<10	<27	<10	--	--	--	--	--	--	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	67	--	<27	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--

07194800 ILLINOIS RIVER AT SAVOY, AR

LOCATION.--Lat 36°06'06", long 94°20'42", in SE¼ sec.36, T.17 N., R.32 W., Washington County, at bridge on State Highway 16, 0.4 mi (0.6 km) downstream from Clear Creek, and 0.7 mi (1.1 km) southwest of Savoy.

DRAINAGE AREA.--167 mi² (433 km²).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
06...	9827	9827	8.0	240	7.7	25.0	19.0	10	7	10.4
NOV										
03...	9827	9827	5.0	256	7.9	30.0	21.0	10	8	9.8
DEC										
08...	9827	9827	--	135	7.4	10.0	10.0	40	30	10.0
JAN										
12...	9827	9827	46	229	8.1	15.0	9.0	5	6	14.7
FEB										
09...	9827	9827	5.0	256	8.3	23.0	11.0	5	3	15.3
MAR										
10...	9827	9827	--	134	7.7	14.0	14.0	60	40	10.6
APR										
07...	9827	9827	45	229	8.1	27.0	21.0	10	10	11.4
MAY										
05...	9827	9827	75	253	8.1	20.0	18.0	10	10	10.5
JUN										
07...	9827	9827	33	260	7.9	30.0	23.0	10	<25	10.1
JUL										
07...	9827	9827	14	250	7.9	34.0	26.0	15	25	9.1
AUG										
04...	9827	9827	75	296	8.0	33.0	27.0	20	15	10.1
31...	9827	9827	14	305	7.9	25.0	22.0	10	10	8.1

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
06...	110	1.4	<10	25	100	120	1	43	110	2.0
NOV										
03...	108	1.6	<10	70	40	--	--	--	--	--
DEC										
08...	88	1.4	1300	1100	950	--	--	--	--	--
JAN										
12...	126	4.1	130	7	60	--	--	--	--	--
FEB										
09...	138	4.3	30	8	--	110	3	42	110	1.0
MAR										
10...	101	2.8	30000	1500	--	--	--	--	--	--
APR										
07...	127	2.2	360	320	--	--	--	--	--	--
MAY										
05...	109	2.4	250	460	--	100	2	38	96	1.0
JUN										
07...	116	3.8	520	220	30	--	--	--	--	--
JUL										
07...	111	2.4	<13	700	--	--	--	--	--	--
AUG										
04...	125	--	160	120	--	130	15	47	120	3.0
31...	92	1.9	780	460	--	--	--	--	--	--

07194800 ILLINOIS RIVER AT SAVOY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
06...	4.8	1.9	140	0	115	4.5	6.0	7.5	160	8
NOV										
03...	--	--	--	--	--	--	--	12	174	10
DEC										
08...	--	--	--	--	--	--	11	5.5	115	22
JAN										
12...	--	--	--	--	--	--	11	8.0	134	0
FEB										
09...	4.8	1.3	130	0	107	1.0	8.0	9.5	151	3
MAR										
10...	--	--	--	--	--	--	6.0	6.0	103	38
APR										
07...	--	--	--	--	--	--	11	7.0	125	15
MAY										
05...	4.1	1.8	120	0	98	1.5	5.0	7.5	140	37
JUN										
07...	--	--	--	--	--	--	6.0	6.5	154	21
JUL										
07...	--	--	--	--	--	--	4.0	8.5	149	34
AUG										
04...	7.0	3.9	140	0	115	2.2	3.0	9.5	167	53
31...	--	--	--	--	--	--	2.0	12	175	18

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
06...	168	1.5	.02	<3	<10	0	<10	250	<10	68
NOV										
03...	184	.97	.02	--	--	--	--	--	--	--
DEC										
08...	137	1.5	.09	--	--	--	--	--	--	--
JAN										
12...	134	1.8	.02	--	--	--	--	--	--	--
FEB										
09...	148	1.2	.02	<3	<10	<3	<10	290	20	40
MAR										
10...	141	.73	.11	--	--	--	--	--	--	--
APR										
07...	140	1.4	.10	--	--	--	--	--	--	--
MAY										
05...	177	1.2	.06	<3	<10	<3	<10	360	<10	35
JUN										
07...	175	1.2	.01	--	--	--	--	--	--	--
JUL										
07...	183	1.1	.14	--	--	--	--	--	--	--
AUG										
04...	220	.94	.13	<3	--	--	<10	2600	<10	360
31...	193	.61	.11	--	--	--	--	--	--	--

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
06...	<10	--	--	--	--	--	--	--	--
NOV									
03...	--	--	--	--	--	--	--	--	--
DEC									
08...	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
12...	--	--	--	--	--	--	--	--	--
FEB									
09...	<10	--	--	--	--	--	--	--	--
MAR									
10...	--	--	--	--	--	--	--	--	--
APR									
07...	--	--	--	--	--	--	--	--	--
MAY									
05...	<10	--	--	--	--	--	--	--	--
JUN									
07...	--	--	--	--	--	--	--	--	--
JUL									
07...	--	--	--	--	--	--	--	--	--
AUG									
04...	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--

07195000 OSAGE CREEK NEAR ELM SPRINGS, AR

LOCATION.--Lat 36°13'19", long 94°17'18", in SW¼NE¼ sec.21, T.18 N., R.31 W., Benton County, on left bank 0.7 mi (1.1 km) downstream from Little Osage Creek, and 3.2 mi (5.1 km) northwest of Elm Springs.

DRAINAGE AREA.--130 mi² (337 km²).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT 21...	9827	9827	76	277	8.1	27.0	21.0	0	2	8.0
NOV 24...	9827	9827	58	257	7.7	--	6.0	5	3	10.4
DEC 17...	9827	9827	78	230	7.8	2.0	6.0	5	4	10.9
JAN 27...	9827	9827	73	278	7.9	5.0	9.0	10	2	12.8
FEB 24...	9827	9827	101	281	8.0	21.0	14.0	5	2	11.3
MAR 23...	9827	9827	86	288	8.1	22.0	16.0	5	2	11.7
APR 20...	9827	9827	2590	123	7.5	22.0	18.0	160	160	8.3
MAY 24...	9827	9827	237	206	7.5	26.0	20.0	65	25	7.6
JUN 21...	9827	9827	86	292	8.0	26.0	21.0	5	<25	9.7
JUL 21...	9827	9827	93	317	8.0	31.0	26.0	10	3	10.0
AUG 18...	9827	9827	74	324	8.0	29.0	25.0	15	5	9.0
SEP 15...	9827	9827	67	325	7.6	25.0	21.0	5	2	9.2

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT 21...	89	3.5	4400	2200	--	--	--	--	--	--
NOV 24...	83	3.2	800	97	130	110	0	42	110	1.0
DEC 17...	87	1.6	720	330	--	--	--	--	--	--
JAN 27...	110	2.7	120	47	<7	--	--	--	--	--
FEB 24...	109	2.9	310	150	53	--	--	--	--	--
MAR 23...	117	28	82	30	20	110	0	45	110	<1.0
APR 20...	87	7.7	--	--	--	--	--	--	--	--
MAY 24...	83	6.3	<13	--	4000	--	--	--	--	--
JUN 21...	108	2.5	400	180	20	120	5	46	120	2.0
JUL 21...	122	2.7	440	380	--	--	--	--	--	--
AUG 18...	107	2.3	560	280	--	130	15	49	120	1.0
SEP 15...	102	3.2	540	7400	--	140	25	56	140	1.0

07195000 OSAGE CREEK NEAR ELM SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
21...	--	--	--	--	--	--	5.0	9.5	181	4
NOV										
24...	9.0	2.4	140	0	115	4.5	--	12	--	--
DEC										
17...	--	--	--	--	--	--	7.0	12	172	4
JAN										
27...	--	--	--	--	--	--	4.0	11	158	20
FEB										
24...	--	--	--	--	--	--	4.0	14	178	3
MAR										
23...	9.8	2.7	140	0	115	1.8	6.0	12	158	12
APR										
20...	--	--	--	--	--	--	1.0	3.5	130	286
MAY										
24...	--	--	--	--	--	--	4.0	8.5	145	29
JUN										
21...	8.3	1.9	140	0	115	2.2	2.0	10	164	9
JUL										
21...	--	--	--	--	--	--	6.0	14	186	15
AUG										
18...	--	--	140	0	115	2.2	8.0	16	190	16
SEP										
15...	12	3.3	140	0	115	5.6	6.0	14	180	60

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
21...	185	1.0	.09	--	<10	0	<10	69	<10	17
NOV										
24...	--	3.5	.42	<3	<10	--	<10	89	<10	18
DEC										
17...	176	2.9	.44	--	--	--	--	--	--	--
JAN										
27...	178	3.5	.56	--	--	--	--	--	--	--
FEB										
24...	181	2.7	.68	--	--	--	--	--	--	--
MAR										
23...	170	2.4	.72	<3	<10	<3	<10	17	<10	38
APR										
20...	416	1.3	.62	--	--	--	--	--	--	--
MAY										
24...	174	2.1	.53	--	--	--	--	--	--	--
JUN										
21...	173	1.6	.54	<3	<10	<3	<10	41	<10	36
JUL										
21...	201	2.2	.56	--	--	--	--	--	--	--
AUG										
18...	206	2.4	.90	<3	<10	--	<10	150	--	38
SEP										
15...	240	2.1	.83	<3	<10	<3	<10	98	<10	39

07195000 OSAGE CREEK NEAR ELM SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
21...	<10	--	--	--	--	--	--	--	--
NOV									
24...	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
17...	--	--	--	--	--	--	--	--	--
JAN									
27...	--	--	--	--	--	--	--	--	--
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
23...	<10	--	--	--	--	--	--	--	--
APR									
20...	--	--	--	--	--	--	--	--	--
MAY									
24...	--	--	--	--	--	--	--	--	--
JUN									
21...	<10	--	--	--	--	--	--	--	--
JUL									
21...	--	--	--	--	--	--	--	--	--
AUG									
18...	<10	--	--	--	--	--	--	--	--
SEP									
15...	<10	--	--	--	--	--	--	--	--

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS, AR

LOCATION.--Lat 36°06'31", long 94°32'00", in SE¼NE¼ sec.31, T.17 N., R.33 W., Benton County, at bridge on State Highway 59, 5.0 mi (8.0 km) south of Siloam Springs.

DRAINAGE AREA.--575 mi² (1,489 km²), at State line.

PERIOD OF RECORD.--October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
06...	9827	9827	280	216	7.5	11.0	14.0	5	6	8.6
NOV										
03...	9827	9827	190	220	7.6	18.0	18.0	5	8	7.2
DEC										
08...	9827	9827	1500	154	7.4	8.0	11.0	30	20	8.9
JAN										
12...	9827	9827	340	240	7.7	9.0	6.0	5	6	11.7
FEB										
09...	9827	9827	220	263	7.8	5.0	6.0	5	3	10.4
MAR										
10...	9827	9827	1500	161	7.6	10.0	10.0	80	50	9.8
APR										
07...	9827	9827	350	226	7.8	18.0	17.0	5	10	8.6
MAY										
05...	9827	9827	560	234	8.0	19.0	17.0	5	9	8.9
JUN										
07...	9827	9827	370	257	8.0	21.0	21.0	5	<25	8.0
JUL										
07...	9827	9827	390	244	7.7	20.0	22.0	10	15	7.8
AUG										
04...	9827	9827	160	276	7.9	26.0	24.0	15	10	7.7
31...	9827	9827	110	287	7.9	19.0	22.0	10	9	7.4

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
06...	83	2.2	260	99	70	110	12	37	92	3.0
NOV										
03...	76	2.1	--	--	--	--	--	--	--	--
DEC										
08...	79	1.6	400	990	930	--	--	--	--	--
JAN										
12...	94	2.0	650	16	30	--	--	--	--	--
FEB										
09...	83	2.3	20	13	--	110	12	40	100	1.0
MAR										
10...	87	2.6	3300	2400	--	--	--	--	--	--
APR										
07...	89	1.6	600	130	--	--	--	--	--	--
MAY										
05...	92	.7	500	170	--	96	6	35	88	2.0
JUN										
07...	88	1.0	320	87	250	--	--	--	--	--
JUL										
07...	89	2.5	<20	<7	--	--	--	--	--	--
AUG										
04...	91	2.3	540	130	--	120	13	45	110	2.0
31...	84	1.8	--	160	--	--	--	--	--	--

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
06...	6.1	1.9	120	0	98	6.1	6.0	9.0	152	3
NOV										
03...	--	--	--	--	--	--	--	11	163	13
DEC										
08...	--	--	--	--	--	--	9.0	5.5	123	17
JAN										
12...	--	--	--	--	--	--	7.0	9.0	124	7
FEB										
09...	6.1	1.5	120	0	98	3.0	3.0	10	146	7
MAR										
10...	--	--	--	--	--	--	6.0	6.5	123	48
APR										
07...	--	--	--	--	--	--	4.0	7.5	135	22
MAY										
05...	3.9	2.2	110	0	90	1.8	2.0	7.5	139	38
JUN										
07...	--	--	--	--	--	--	4.0	8.0	148	57
JUL										
07...	--	--	--	--	--	--	4.0	7.5	149	23
AUG										
04...	7.7	2.8	130	0	107	2.6	1.0	9.5	167	11
31...	--	--	--	--	--	--	3.0	14	175	11

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
06...	155	2.0	.15	<3	<10	0	<10	130	<10	48
NOV										
03...	176	1.3	.15	--	--	--	--	--	--	--
DEC										
08...	140	1.7	--	--	--	--	<10	890	--	59
JAN										
12...	131	2.5	.11	--	--	--	<10	78	--	<27
FEB										
09...	153	2.1	.12	<3	<10	<3	<10	140	<10	28
MAR										
10...	171	1.2	.25	--	--	--	<10	1700	--	89
APR										
07...	157	2.1	.20	--	--	--	<10	320	--	79
MAY										
05...	177	1.6	.15	<3	<10	<3	<10	300	<10	53
JUN										
07...	205	1.8	.09	--	--	--	<10	290	--	<27
JUL										
07...	172	1.6	.12	--	--	--	<10	670	--	36
AUG										
04...	178	1.5	.27	<3	<10	<3	<10	330	<10	32
31...	186	1.1	.40	--	<10	--	10	230	--	<27

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
06...	--	--	--	--	--	--	--	--	--
NOV									
03...	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
08...	<10	--	--	--	--	--	--	--	--
JAN									
12...	<10	--	--	--	--	--	--	--	--
FEB									
09...	<10	--	--	--	--	--	--	--	--
MAR									
10...	<10	--	--	--	--	--	--	--	--
APR									
07...	<10	--	--	--	--	--	--	--	--
MAY									
05...	<10	--	--	--	--	--	--	--	--
JUN									
07...	<10	--	--	--	--	--	--	--	--
JUL									
07...	<10	--	--	--	--	--	--	--	--
AUG									
04...	<10	--	--	--	--	--	--	--	--
31...	<10	--	--	--	--	--	--	--	--

07195800 FLINT CREEK AT SPRINGTOWN, AR

LOCATION.--Lat 36°15'20", long 94°25'50", in NW¼ sec.7, T.18 N., R.32 W., Benton County, on right bank 20 ft (6 m) downstream from State Highway 12, 0.8 mi (1.3 km) southwest of Springtown.

DRAINAGE AREA.--14.2 mi^2 (36.8 km^2).

PERIOD OF RECORD.--June 1961 to current year.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,173.47 ft (357.674 m) above mean sea level.

REMARKS.--Records good. Some diversion for irrigation above gage.

AVERAGE DISCHARGE.--15 years, 16.3 ft^3/s (0.46 m^3/s), 14.35 in/yr (365 mm/yr), 10,870 acre-ft/yr (13.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft^3/s (413 m^3/s) June 8, 1974, gage height, 17.51 ft, (5.337 m), from floodmarks, from rating curve extended above 260 ft^3/s (7.36 m^3/s) on basis of contracted-opening, and flow-over-road measurement of peak flow; no flow for part of July 9, 29, 30, Aug. 7, 1964, result of pumpage for irrigation above gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 260 ft^3/s (7.4 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 29	1430	902	25.5	8.29	2.527	Apr. 20	0545	*908	25.7	8.32	2.536
Dec. 6	0045	402	11.4	6.41	1.954						

Minimum discharge, 5.0 ft^3/s (0.14 m^3/s) Sept. 11, 12, 13, gage height, 3.54 ft (1.079 m).

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	17	10	61	24	11	9.5	13	26	24	12	8.0	6.7
2	14	10	46	21	11	9.5	12	23	21	12	7.4	6.4
3	13	12	37	19	11	9.5	12	21	18	12	7.4	6.4
4	12	14	31	18	11	11	12	19	18	13	8.0	6.1
5	12	11	93	17	11	11	11	18	16	11	8.0	6.1
6	11	12	163	16	11	9.8	11	22	15	9.9	8.0	6.1
7	11	11	63	16	11	9.5	11	19	13	9.4	7.4	5.8
8	11	11	47	14	11	14	10	16	12	9.0	7.0	5.8
9	12	11	38	13	11	23	10	15	12	9.0	7.0	5.5
10	12	12	31	13	11	23	9.9	15	11	9.0	7.4	5.5
11	11	12	27	13	11	21	9.7	14	11	8.7	9.0	5.3
12	11	11	23	12	10	21	9.8	15	10	8.3	8.7	5.3
13	10	10	21	13	10	18	12	18	9.9	8.0	8.0	5.3
14	10	10	21	12	10	17	11	15	9.4	8.0	7.4	6.7
15	11	10	21	12	10	16	10	15	9.9	8.3	6.7	6.1
16	11	11	19	12	9.6	15	11	15	9.9	8.7	7.4	6.1
17	10	10	18	12	9.6	14	11	13	9.4	8.3	8.3	7.0
18	10	9.9	16	12	9.6	14	27	13	11	8.0	8.0	7.0
19	10	12	16	12	9.2	13	38	13	9.4	8.3	7.4	6.7
20	11	16	15	12	9.4	12	307	13	9.0	8.0	7.4	7.4
21	11	13	14	12	12	12	101	13	9.0	8.7	6.1	6.7
22	10	12	14	12	11	12	67	11	8.7	9.4	6.1	6.1
23	10	12	13	12	10	12	53	21	36	11	9.4	6.1
24	27	12	13	11	10	13	48	25	31	8.3	8.0	6.1
25	17	11	14	11	10	14	40	23	25	7.7	6.7	5.8
26	14	11	13	11	9.5	13	35	25	20	7.7	6.7	7.7
27	13	11	14	11	9.5	12	30	38	18	9.0	7.4	11
28	13	10	15	11	9.5	13	37	41	16	9.9	5.8	7.9
29	11	174	22	11	9.2	16	33	35	15	16	5.8	9.8
30	11	133	26	11	---	13	29	31	13	12	5.8	8.0
31	10	---	26	11	---	13	---	27	---	8.7	6.4	---
TOTAL	377	624.9	991	417	299.1	433.8	1031.4	628	450.6	297.3	228.1	198.5
MEAN	12.2	20.8	32.0	13.5	10.3	14.0	34.4	20.3	15.0	9.59	7.36	6.62
MAX	27	174	163	24	12	23	307	41	36	16	9.4	11
MIN	10	9.9	13	11	9.2	9.5	9.7	11	8.7	7.7	5.8	5.3
CFSM	.86	1.46	2.25	.95	.73	.99	2.42	1.43	1.06	.68	.52	.47
IN.	.99	1.64	2.60	1.09	.78	1.14	2.70	1.65	1.18	.78	.60	.52
AC-FT	748	1240	1970	827	593	860	2050	1250	894	590	452	394

CAL YR 1975	TOTAL	10381.4	MEAN 28.4	MAX 689	MIN 9.0	CFSM 2.00	IN 27.19	AC-FT	20590	
WTR YR 1976	TOTAL	5976.7	MEAN 16.3	MAX 307	MIN 5.3	CFSM 1.15	IN 15.66	AC-FT	11850	

07195850 FLINT CREEK NORTH OF SILOAM SPRINGS, AR

LOCATION.--Lat 36°13'53", long 94°33'20", in NE¼SE¼ sec.23, T.18 N., R.34 W., Benton County, at bridge on State Highway 43, upstream from confluence with Little Flint Creek, 3.0 mi (4.8 km) northwest of Siloam Springs.

DRAINAGE AREA.--34.0 mi^2 (88.1 km^2), above Little Flint Creek.

PERIOD OF RECORD.--October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
06...	9827	9827	45	192	7.6	18.0	19.0	10	4	8.9
NOV										
03...	9827	9827	19	194	7.8	19.0	19.0	5	2	9.2
DEC										
08...	9827	9827	--	140	7.5	7.0	11.0	25	15	9.8
JAN										
12...	9827	9827	19	192	8.0	11.0	9.0	5	2	13.8
FEB										
09...	9827	9827	26	207	8.1	12.0	8.0	0	2	14.0
MAR										
10...	9827	9827	8.0	214	7.9	13.0	14.0	5	4	10.9
APR										
07...	9827	9827	44	220	8.0	21.0	17.0	5	2	10.2
MAY										
05...	9827	9827	48	209	8.1	19.0	18.0	5	3	10.4
JUN										
07...	9827	9827	40	221	7.8	21.0	22.0	5	<25	8.9
JUL										
07...	9827	9827	--	224	7.8	26.0	24.0	10	4	8.7
AUG										
04...	9827	9827	40	214	7.8	25.0	25.0	10	30	8.7
31...	9827	9827	11	222	7.8	22.0	23.0	5	5	7.8

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
06...	94	.8	120	75	53	96	0	35	88	2.0
NOV										
03...	98	.9	100	130	70	--	--	--	--	--
DEC										
08...	89	.8	760	620	950	--	--	--	--	--
JAN										
12...	119	2.2	88	50	<10	--	--	--	--	--
FEB										
09...	118	3.5	27	4	--	86	0	33	82	1.0
MAR										
10...	105	1.9	210	130	--	--	--	--	--	--
APR										
07...	105	1.2	190	120	--	--	--	--	--	--
MAY										
05...	109	1.8	150	72	--	84	7	31	78	1.0
JUN										
07...	101	1.4	150	95	45	--	--	--	--	--
JUL										
07...	102	1.5	<7	180	--	--	--	--	--	--
AUG										
04...	104	2.5	260	300	--	100	10	36	90	3.0
31...	89	1.7	370	160	--	--	--	--	--	--

07195850 FLINT CREEK NORTH OF SILOAM SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
06...	4.7	1.8	120	0	98	4.8	3.0	7.5	129	2
NOV										
03...	--	--	--	--	--	--	--	8.0	137	0
DEC										
08...	--	--	--	--	--	--	6.0	6.0	113	8
JAN										
12...	--	--	--	--	--	--	5.0	7.5	105	--
FEB										
09...	4.1	1.2	110	0	90	1.4	1.0	8.0	121	4
MAR										
10...	--	--	--	--	--	--	1.0	7.5	122	10
APR										
07...	--	--	--	--	--	--	8.0	8.5	121	13
MAY										
05...	2.1	2.2	94	0	77	1.2	1.0	6.5	117	21
JUN										
07...	--	--	--	--	--	--	2.0	7.0	134	3
JUL										
07...	--	--	--	--	--	--	1.0	7.0	133	5
AUG										
04...	3.7	1.7	110	0	90	2.8	<1.0	7.0	134	66
31...	--	--	--	--	--	--	1.0	9.5	136	8

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
06...	131	1.9	.01	<3	<10	0	10	47	<10	2
NOV										
03...	137	1.8	<.01	--	--	--	<10	91	--	0
DEC										
08...	121	2.2	.07	--	--	--	--	--	--	--
JAN										
12...	102	2.4	.01	--	--	--	--	--	--	--
FEB										
09...	125	1.7	<.01	<3	<10	<3	<10	44	--	<27
MAR										
10...	132	1.6	.02	--	--	--	--	--	--	--
APR										
07...	134	2.1	.04	--	--	--	--	--	--	--
MAY										
05...	138	1.6	.04	<3	<10	<3	<10	110	<10	<27
JUN										
07...	137	1.3	<.01	--	--	--	--	--	--	--
JUL										
07...	138	1.0	<.01	--	--	--	--	--	--	--
AUG										
04...	200	.94	.12	<3	<10	<3	<10	170	<10	81
31...	144	.69	.05	--	--	--	--	--	--	--

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
06...	<10	--	--	--	--	--	--	--	--
NOV									
03...	20	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
08...	--	--	--	--	--	--	--	--	--
JAN									
12...	--	--	--	--	--	--	--	--	--
FEB									
09...	<10	--	--	--	--	--	--	--	--
MAR									
10...	--	--	--	--	--	--	--	--	--
APR									
07...	--	--	--	--	--	--	--	--	--
MAY									
05...	<10	--	--	--	--	--	--	--	--
JUN									
07...	--	--	--	--	--	--	--	--	--
JUL									
07...	--	--	--	--	--	--	--	--	--
AUG									
04...	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--

07195860 SAGER CREEK NEAR SILOAM SPRINGS, AR

LOCATION.--Lat 36°11'50", long 94°35'00", in SE¼NE¼ sec.24, T.20 N., R.25 E., Delaware County, Okla., at bridge on county road 0.8 mi (.13 km) west of State line, 2.6 mi (4.2 km) northwest of Siloam Springs.

PERIOD OF RECORD.--October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
06...	9827	9827	230	7.4	14.0	16.0	5	3	8.9	88	2.4	330
NOV												
03...	9827	9827	270	7.6	19.0	18.0	10	2	6.3	66	1.2	50
DEC												
08...	9827	9827	165	7.3	6.0	11.0	20	8	8.7	78	1.0	220
JAN												
12...	9827	9827	261	7.5	9.0	8.0	5	3	9.1	77	1.4	130
FEB												
09...	9827	9827	306	7.5	12.0	9.0	5	1	7.6	65	2.6	13
MAR												
10...	9827	9827	239	7.5	12.0	12.0	55	20	8.7	81	4.9	550
APR												
07...	9827	9827	296	7.6	19.0	17.0	10	2	6.3	65	4.2	2100
MAY												
05...	9827	9827	277	7.8	19.0	17.0	5	2	7.8	80	2.0	300
JUN												
07...	9827	9827	288	7.7	21.0	21.0	10	<25	7.6	84	.6	700
JUL												
07...	9827	9827	300	7.6	24.0	22.0	20	7	7.5	85	3.7	<20
AUG												
04...	9827	9827	345	7.7	24.0	23.0	15	3	7.5	86	2.5	2300
31...	9827	9827	375	7.5	19.0	21.0	15	4	4.4	48	2.7	340

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
06...	110	67	100	0	38	96	1.2	9.1	3.2	180	0	148
NOV												
03...	280	130	--	--	--	--	--	--	--	--	--	--
DEC												
08...	5	<7	--	--	--	--	--	--	--	--	--	--
JAN												
12...	30	<4	--	--	--	--	--	--	--	--	--	--
FEB												
09...	5	--	110	3	39	98	2.0	12	3.0	130	0	107
MAR												
10...	130	--	--	--	--	--	--	--	--	--	--	--
APR												
07...	360	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	60	--	100	10	39	98	<1.0	9.2	6.4	110	0	90
JUN												
07...	340	100	--	--	--	--	--	--	--	--	--	--
JUL												
07...	440	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	1500	--	130	23	46	110	4.0	17	4.6	130	0	107
31...	2100	--	--	--	--	--	--	--	--	--	--	--

07195860 SAGER CREEK NEAR SILOAM SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
06...	11	9.0	11	164	1	165	3.0	.66	<3	<10	0	<10
NOV												
03...	--	--	19	185	4	189	3.2	.69	--	--	--	--
DEC												
08...	--	8.0	7.0	129	6	135	2.0	.20	--	--	--	--
JAN												
12...	--	10	12	140	6	146	3.3	.80	--	--	--	--
FEB												
09...	6.6	8.0	14	--	--	--	2.5	.58	<3	<10	<3	<10
MAR												
10...	--	9.0	10	155	17	172	2.0	.79	--	--	--	--
APR												
07...	--	16	16	177	14	191	2.9	.82	--	--	--	--
MAY												
05...	2.8	5.0	14	151	19	170	2.2	.58	<3	<10	<3	<10
JUN												
07...	--	6.0	11	174	3	177	2.1	.84	--	--	--	--
JUL												
07...	--	9.0	17	180	16	196	2.0	.70	--	--	--	--
AUG												
04...	4.2	11	20	214	1	215	2.6	1.2	<3	<10	<3	<10
31...	--	15	26	229	2	231	2.0	2.3	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
06...	0	<10	10	<10	--	--	--	--	--	--	--	--
NOV												
03...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
09...	36	20	66	<10	--	--	--	--	--	--	--	--
MAR												
10...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	69	<10	<27	<10	--	--	--	--	--	--	--	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	140	<10	34	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--

07196900 BARON FORK AT DUTCH MILLS, AR

LOCATION.--Lat 35°52'48", long 94°29'11", on line between secs.21 and 22, T.14 N., R.33 W., Washington County, near right bank on downstream side of bridge on State Highway 59 at Dutch Mills, 2.2 mi (3.5 km) downstream from Fly Creek, and 2.9 mi (4.7 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--46.0 mi^2 (119 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1958 to current year. Prior to October 1969, published as Barren Fork at Dutch Mills.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 986.47 ft (300.676 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--18 years, 31.2 ft^3/s (0.884 m^3/s), 12.28 in/yr (312 mm/yr), 30,140 acre-ft/yr (37.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,100 ft^3/s (484 m^3/s) July 13, 1972, gage height, 13.74 ft (4.188 m), from rating curve extended above 2,900 ft^3/s (82.1 m^3/s) on basis of contracted-opening measurement at 12,900 ft^3/s (365 m^3/s); no flow at times in 1963, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,000 ft^3/s (396 m^3/s) Apr. 20 at 0345 hours, gage height, 12.80 ft (3.901 m), no other peaks above base of 2,000 ft^3/s (56 m^3/s); minimum, 0.07 ft^3/s (0.002 m^3/s) Nov. 18, 19.

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	2.2	.38	43	44	7.1	8.0	27	43	46	8.4	1.2	.22
2	2.2	.51	29	36	6.9	7.7	22	37	30	7.4	1.5	.26
3	2.4	1.1	22	30	6.7	7.4	19	30	22	7.9	1.3	.34
4	2.2	3.0	18	25	6.6	8.9	16	26	20	15	1.1	.31
5	2.0	2.9	406	24	6.9	33	15	25	16	9.0	1.1	.30
6	2.0	1.7	394	23	6.6	20	14	77	16	6.5	2.2	.33
7	1.8	1.3	98	21	5.9	16	12	38	14	5.3	1.6	.28
8	1.8	.80	62	16	6.1	328	10	28	14	4.9	1.5	.38
9	2.2	.76	47	16	5.8	368	9.1	24	9.0	4.3	1.3	1.6
10	2.2	3.8	37	16	5.9	120	8.3	22	9.5	4.0	.97	.66
11	2.2	2.4	31	17	6.1	80	7.9	21	8.4	3.7	.87	.36
12	2.0	1.2	27	15	5.8	190	7.2	20	7.9	3.2	.70	.28
13	2.0	.54	25	15	5.8	84	9.1	43	6.9	2.9	.70	.19
14	1.7	.31	26	14	5.6	62	12	30	6.1	2.9	.55	1.6
15	1.8	.24	37	13	5.6	52	9.2	59	6.1	2.9	.70	1.3
16	1.8	.22	29	12	5.7	43	8.9	76	6.9	4.9	.62	.78
17	2.1	.19	25	11	6.4	35	13	51	5.7	4.0	.62	.98
18	2.2	.11	21	11	7.7	31	72	37	10	2.9	.55	1.1
19	2.4	8.6	19	11	7.1	28	178	27	9.5	2.7	.43	1.2
20	2.4	64	18	12	6.9	25	3150	23	6.5	2.2	.38	1.1
21	2.7	21	16	11	27	21	364	20	5.3	2.0	.38	.90
22	3.4	13	15	9.9	20	18	165	18	4.6	1.8	.29	.73
23	4.3	9.3	15	9.6	15	16	101	16	4.6	1.6	.29	.73
24	7.4	8.1	15	9.5	12	16	85	17	234	1.5	.33	.85
25	3.0	6.7	22	9.4	11	16	72	15	77	1.5	.33	.90
26	.70	7.7	25	8.7	10	15	57	15	28	1.5	.25	1.1
27	.21	7.3	33	7.8	9.3	15	47	38	19	1.3	.22	1.7
28	.15	6.9	37	7.8	8.7	14	68	32	15	1.3	.19	2.4
29	.27	45	78	7.5	8.3	85	65	21	12	2.2	.19	1.8
30	.34	123	74	7.5	---	57	50	19	10	2.0	.17	1.4
31	.36	---	55	7.4	---	35	---	136	---	1.5	.19	---
TOTAL	64.43	342.06	1799	478.1	248.5	1855.0	4693.7	1084	680.0	123.2	22.72	26.08
MEAN	2.08	11.4	58.0	15.4	8.57	59.8	156	35.0	22.7	3.97	.73	.87
MAX	7.4	123	406	44	27	368	3150	136	234	15	2.2	2.4
MIN	.15	.11	15	7.4	5.6	7.4	7.2	15	4.6	1.3	.17	.19
CFSM	.05	.25	1.26	.33	.19	1.30	3.39	.76	.49	.09	.02	.02
IN.	.05	.28	1.45	.39	.20	1.50	3.80	.88	.55	.10	.02	.02
AC-FT	128	678	3570	948	493	3680	9310	2150	1350	244	45	52

CAL YR 1975 TOTAL 18719.95 MEAN 51.3 MAX 1570 MIN .11 CFSM 1.12 IN 15.14 AC-FT 37130
WTR YR 1976 TOTAL 11416.79 MEAN 31.2 MAX 3150 MIN .11 CFSM .68 IN 9.23 AC-FT 22650

07196900 BARON FORK AT DUTCH MILLS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1960 to September 1961, October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
06...	9827	9827	2.0	269	7.7	9.0	12.0	10	60	8.8
16...	1028	1028	1.7	--	--	--	20.0	--	--	--
NOV										
03...	9827	9827	.50	286	8.0	18.0	18.0	10	3	9.3
25...	1028	1028	7.4	--	--	--	4.5	--	--	--
DEC										
08...	9827	9827	304	198	7.7	6.0	9.0	20	15	10.0
JAN										
12...	9827	9827	18	278	7.9	3.0	4.0	5	4	11.9
13...	1028	1028	15	--	--	--	6.5	--	--	--
FEB										
09...	9827	9827	5.7	300	8.1	5.0	5.0	5	4	11.8
18...	1028	1028	6.8	--	--	--	12.0	--	--	--
MAR										
10...	9827	9827	129	205	7.6	9.0	9.0	50	45	10.9
31...	1028	1028	34	--	--	--	12.5	--	--	--
APR										
07...	9827	9827	12	269	7.8	21.0	17.0	10	6	6.5
20...	1028	1028	913	--	--	--	18.0	--	--	--
MAY										
04...	1028	1028	26	--	--	--	15.0	--	--	--
05...	9827	9827	24	290	8.0	20.0	17.0	5	9	7.7
JUN										
07...	9827	9827	14	312	7.8	20.0	21.5	5	<25	7.1
09...	1028	1028	11	--	--	--	22.0	--	--	--
JUL										
07...	9827	9827	5.7	291	7.9	21.0	24.0	10	9	7.5
21...	1028	1028	2.1	--	--	--	25.5	--	--	--
AUG										
04...	9827	9827	1.2	308	8.0	23.0	23.0	10	8	6.2
31...	9827	9827	.70	316	8.0	19.0	22.0	5	30	9.2
31...	1028	1028	.18	--	--	--	22.0	--	--	--

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
06...	81	1.1	<20	12	65	150	19	49	120	6.0
16...	--	--	--	--	--	--	--	--	--	--
NOV										
03...	97	1.3	40	8	16	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	86	.5	1300	1100	950	--	--	--	--	--
JAN										
12...	91	2.4	380	95	80	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	91	3.6	160	100	--	130	0	48	120	3.0
18...	--	--	--	--	--	--	--	--	--	--
MAR										
10...	94	2.7	4500	1500	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
APR										
07...	66	3.0	950	660	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
05...	79	2.4	780	620	--	130	15	46	120	3.0
JUN										
07...	80	1.6	69	20	10	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	88	2.1	80	<7	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	71	4.8	150	64	--	140	9	50	130	4.0
31...	103	2.3	320	47	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--

07196900 BARON FORK AT DUTCH MILLS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
06...	4.6	1.9	160	0	131	5.1	11	8.5	180	7
16...	--	--	--	--	--	--	--	--	--	--
NOV										
03...	--	--	--	--	--	--	--	9.0	185	6
25...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	11	6.5	143	17
JAN										
12...	--	--	--	--	--	--	14	7.5	147	5
13...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	5.3	1.6	160	0	131	2.0	15	8.5	175	22
18...	--	--	--	--	--	--	--	--	--	--
MAR										
10...	--	--	--	--	--	--	8.0	6.0	140	92
31...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	18	6.0	160	17
20...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
05...	3.9	2.1	140	0	115	2.2	7.0	5.5	168	40
JUN										
07...	--	--	--	--	--	--	8.0	5.5	180	53
09...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	8.0	8.0	171	15
21...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	6.2	2.6	160	0	131	2.6	6.0	6.0	171	17
31...	--	--	--	--	--	--	4.0	7.0	168	78
31...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
06...	187	.61	.02	<3	<10	0	320	210	30	67
16...	--	--	--	--	--	--	--	--	--	--
NOV										
03...	191	.16	<.01	--	--	--	180	140	--	53
25...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	160	1.9	.12	--	--	--	230	480	--	43
JAN										
12...	152	1.8	.10	--	--	--	<10	75	--	51
13...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	197	1.0	.10	<3	<10	<3	<10	290	20	140
18...	--	--	--	--	--	--	--	--	--	--
MAR										
10...	232	1.7	.27	--	--	--	<10	850	--	42
31...	--	--	--	--	--	--	--	--	--	--
APR										
07...	177	1.0	.13	--	--	--	<10	360	--	290
20...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
05...	208	.91	.10	<3	<10	<3	<10	280	<10	80
JUN										
07...	233	1.1	.08	--	--	--	1300	660	--	120
09...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	186	.82	.03	--	--	--	530	220	--	82
21...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	188	<.10	.09	<3	<10	<3	<10	1600	<10	390
31...	246	<.10	.17	--	<10	--	<10	1100	--	240
31...	--	--	--	--	--	--	--	--	--	--

07196900 BARON FORK AT DUTCH MILLS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
06...	150	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
NOV									
03...	120	.00	.00	.00	.00	.00	.00	.00	<1
25...	--	--	--	--	--	--	--	--	--
DEC									
08...	100	--	--	--	--	--	--	--	--
JAN									
12...	<10	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
FEB									
09...	<10	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
MAR									
10...	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
APR									
07...	<10	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
MAY									
04...	--	--	--	--	--	--	--	--	--
05...	<10	--	--	--	--	--	--	--	--
JUN									
07...	710	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
JUL									
07...	230	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
AUG									
04...	<10	--	--	--	--	--	--	--	--
31...	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--

07247000 POTEAU RIVER AT CAUTHRON, AR

LOCATION.--Lat 34°55'08", long 94°17'55", in NW¼SW¼ sec.16, T.3 N., R.31 W., Scott County, on right bank at downstream side of highway bridge at Cauthron, 2.9 mi (4.7 km) downstream from Cross Creek, 7.8 mi (12.6 km) downstream from Jones Creek, and at mile 109.0 (175.4 km).

DRAINAGE AREA.--203 mi^2 (526 km^2).

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

REVISED RECORDS.--WSP 1037: 1939(M). WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 569.53 ft (173.593 m) above mean sea level. Prior to May 2, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good to fair. As of September 1974, flow from 83.7 mi^2 (217 km^2) above this station is controlled by 13 floodwater-detention reservoirs with a total combined capacity of 36,176 acre-ft (44.6 hm^3) below the flood-spillway crests, of which 32,778 acre-ft (40.4 hm^3) is flood-detention capacity, 2,100 acre-ft (2.58 hm^3) is water-supply storage, and 1,298 acre-ft (1.60 hm^3) is sediment-storage capacity.

AVERAGE DISCHARGE.--37 years, 217 ft^3/s (6.15 m^3/s), 14.52 in/yr (369 mm/yr), 157,200 acre-ft/yr (194 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,200 ft^3/s (912 m^3/s) May 20, 1960, gage height, 23.76 ft (7.242 m); no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1935 reached a stage of 27.4 ft (8.35 m), from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,810 ft^3/s (108 m^3/s) Mar. 8, gage height, 12.48 ft (3.804 m); no flow Aug. 30-Sept. 2.

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	1.9	87	2.3	132	23	31	72	19	7.7	6.8	.30	0
2	1.8	88	1.9	95	21	29	57	18	7.7	6.0	.30	0
3	2.1	89	4.3	75	18	26	56	18	10	6.0	.50	.10
4	2.6	90	7.5	59	17	25	50	14	12	6.0	.50	.30
5	2.4	87	12	46	16	92	44	12	10	5.0	.40	.40
6	2.1	83	68	39	15	68	36	12	6.4	4.2	1.0	.50
7	2.1	81	79	35	15	46	32	12	6.4	3.7	1.9	.70
8	1.8	78	38	34	14	2060	32	11	4.2	3.3	3.0	.60
9	1.1	78	23	29	13	2220	29	7.2	4.6	3.0	3.2	.60
10	.90	78	16	24	11	743	22	6.8	4.6	2.8	3.7	.60
11	.72	77	11	23	12	361	18	7.2	4.2	2.7	2.3	.60
12	.64	76	9.0	24	15	285	13	12	3.9	3.7	2.0	.60
13	.49	42	8.2	23	21	205	16	18	3.7	3.3	2.0	.50
14	.36	8.0	7.4	21	19	152	19	36	3.5	3.2	1.2	.50
15	.36	2.8	7.5	19	17	126	19	39	3.3	4.6	.60	.40
16	.42	1.2	7.0	16	15	103	17	28	3.2	6.0	.30	.30
17	.36	1.0	6.1	14	28	81	17	22	2.4	5.1	.20	.30
18	.30	1.1	4.8	12	181	67	18	14	2.4	5.0	.20	.30
19	.24	1.0	345	11	90	57	40	14	2.2	3.9	.20	.50
20	.21	1.7	527	12	61	51	209	13	2.2	3.3	.20	.60
21	.24	2.5	523	12	200	46	130	13	1.9	2.7	.20	.60
22	.27	5.9	516	12	168	46	63	8.6	1.7	1.9	.20	.60
23	.27	4.7	318	11	99	42	34	8.2	1.8	1.4	.20	.40
24	.32	3.0	55	10	78	38	26	8.2	75	1.2	.10	.30
25	.49	2.1	20	154	63	38	48	8.2	374	.90	.10	.30
26	.49	1.7	16	104	52	42	49	8.2	70	.60	.10	.40
27	.62	1.5	25	56	44	44	33	13	31	.40	.10	.40
28	.95	1.6	58	41	38	62	30	18	17	.30	.10	.50
29	1.3	1.7	654	34	34	170	24	13	17	.30	.10	.50
30	44	2.0	277	30	---	130	23	12	11	.30	0	.50
31	89	---	169	26	---	89	---	13	---	.30	0	---
TOTAL	160.85	1077.5	3816.0	1233	1398	7575	1276	456.6	705.0	97.90	25.20	12.90
MEAN	5.19	35.9	123	39.8	48.2	244	42.5	14.7	23.5	3.16	.81	.43
MAX	89	90	654	154	200	2220	209	39	374	6.8	3.7	.70
MIN	.21	1.0	1.9	10	11	25	13	6.8	1.7	.30	0	0
AC-FT	319	2140	7570	2450	2770	15030	2530	906	1400	194	50	26

CAL YR 1975 TOTAL 96243.65 MEAN 264 MAX 6820 MIN .21 AC-FT 190900
WTR YR 1976 TOTAL 17833.95 MEAN 48.7 MAX 2220 MIN 0 AC-FT 35370

07247012 POTEAU RIVER SOUTH OF BATES, AR

LOCATION.--Lat 34°53'44", long 94°23'35", in SW¼NW¼ sec.27, T.3 N., R.32 W., Scott County, at bridge on county road, 0.9 mi (1.4 km) south of Bates.

DRAINAGE AREA.--251 mi² (650 km²), station 07247010 near Bates.

PERIOD OF RECORD.--October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
01...	9827	9827	2.5	11	7.2	21.0	24.0	20	7	7.5
29...	9827	9827	2.0	103	6.9	21.0	22.0	20	5	2.6
DEC										
03...	9827	9827	6.4	78	7.0	15.0	14.0	75	5	8.6
JAN										
07...	9827	9827	47	70	7.0	<3.0	6.0	50	30	12.6
FEB										
04...	9827	9827	24	77	6.9	19.0	14.0	120	85	9.7
MAR										
03...	9827	9827	35	85	6.9	26.0	23.0	55	30	9.0
31...	9827	9827	--	92	7.1	18.0	19.0	120	40	9.1
MAY										
05...	9827	9827	10	23	7.3	20.0	21.0	45	20	7.9
JUN										
02...	9827	9827	11	93	7.1	29.0	27.0	20	<25	6.9
JUL										
06...	9827	9827	6.2	85	7.1	31.0	28.0	40	20	6.0
AUG										
03...	9827	9827	.80	99	7.4	29.0	30.0	40	30	5.6
SEP										
07...	9827	9827	1.1	104	7.2	28.0	27.0	20	10	6.9

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
01...	88	2.7	250	38	--	--	--	--	--	--
29...	30	3.1	200	27	--	--	--	--	--	--
DEC										
03...	82	2.9	13	<7	--	31	5	6.0	14	4.0
JAN										
07...	101	--	150	50	150	36	22	6.0	14	5.0
FEB										
04...	93	3.5	180	49	--	--	--	--	--	--
MAR										
03...	103	4.5	110	50	--	--	--	--	--	--
31...	97	2.7	220	160	--	22	2	5.0	12	2.0
MAY										
05...	88	3.0	180	85	--	--	--	--	--	--
JUN										
02...	85	2.1	310	60	--	--	--	--	--	--
JUL										
06...	76	--	240	20	70	22	0	5.0	12	2.0
AUG										
03...	74	--	250	110	92	--	--	--	--	--
SEP										
07...	85	3.5	210	15	--	--	--	--	--	--

07247012 POTEAU RIVER SOUTH OF BATES, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
01...	--	--	--	--	--	--	--	9.5	52	10
29...	--	--	--	--	--	--	9.0	8.0	85	9
DEC										
03...	3.4	1.4	32	0	26	5.1	1.0	6.5	48	6
JAN										
07...	--	--	17	0	14	2.7	4.0	6.5	71	9
FEB										
04...	--	--	--	--	--	--	9.0	7.5	114	30
MAR										
03...	--	--	--	--	--	--	12	8.5	68	26
31...	7.9	2.3	24	0	20	3.1	10	9.0	77	24
MAY										
05...	--	--	--	--	--	--	10	7.5	73	46
JUN										
02...	--	--	--	--	--	--	9.0	7.5	61	12
JUL										
06...	5.4	3.0	31	0	25	3.9	9.0	6.5	71	9
AUG										
03...	--	--	--	--	--	--	5.0	6.0	75	18
SEP										
07...	--	--	--	--	--	--	1.0	6.0	59	1

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
01...	62	.10	.01	--	--	--	--	--	--	--
29...	94	<.10	.02	--	--	--	<10	560	--	490
DEC										
03...	54	.56	.04	--	<10	0	<10	3500	20	170
JAN										
07...	80	.67	.09	--	--	--	--	--	--	--
FEB										
04...	144	.72	.23	--	--	--	--	--	--	--
MAR										
03...	94	.35	.09	--	--	--	--	--	--	--
31...	101	.37	.03	<3	<10	<3	<10	2000	<10	100
MAY										
05...	119	<.10	.06	--	--	--	--	--	--	--
JUN										
02...	73	<.10	.06	--	--	--	--	--	--	--
JUL										
06...	80	.13	.06	<3	<10	<3	20	1200	<10	340
AUG										
03...	93	.11	.03	--	--	--	--	--	--	--
SEP										
07...	60	<.10	.01	--	--	--	--	--	--	--

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
01...	--	--	--	--	--	--	--	--	--
29...	20	--	--	--	--	--	--	--	--
DEC									
03...	<10	--	--	--	--	--	--	--	--
JAN									
07...	--	.00	.00	.00	.00	.00	.00	.00	<1
FEB									
04...	--	--	--	--	--	--	--	--	--
MAR									
03...	--	--	--	--	--	--	--	--	--
31...	<10	--	--	--	--	--	--	--	--
MAY									
05...	--	--	--	--	--	--	--	--	--
JUN									
02...	--	--	--	--	--	--	--	--	--
JUL									
06...	<10	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
SEP									
07...	--	--	--	--	--	--	--	--	--

07249400 JAMES FORK NEAR HACKETT, AR

LOCATION.--Lat 35°09'45", long 94°24'25", in NW¼NW¼ sec.34, T.6 N., R.32 W., Sebastian County, near left bank on downstream side of bridge on State Highway 45, 1.7 mi (2.7 km) south of Hackett, 2.0 mi (3.2 km) downstream from Elder Branch, 2.0 mi (3.2 km) upstream from small tributary, and 3.6 mi (5.8 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 mi^2 (381 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1958 to current year.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 459.71 ft (140.120 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--18 years, 132 ft^3/s (3.74 m^3/s), 12.19 in/yr (310 mm/yr), 95,630 acre-ft/yr (118 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s (850 m^3/s) May 14, 1968, gage height, 23.00 ft (7.010 m), from rating curve extended above 20,000 ft^3/s (566 m^3/s); no flow Aug. 16 to Dec. 12, 1963, Sept. 14-21, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,270 ft^3/s (64.6 m^3/s) Apr. 20, gage height, 13.96 ft (4.255 m), no peak above base of 3,000 ft^3/s (85 m^3/s); minimum discharge, 0.25 ft^3/s (0.007 m^3/s) July 29, 30, 31, gage height, 0.30 ft (0.091 m).

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	1.4	1.1	1.5	62	11	8.9	60	38	6.9	13	.64	1.3
2	1.3	1.1	12	51	11	12	52	36	6.5	15	6.3	.90
3	1.3	1.3	8.8	45	8.7	19	48	30	15	19	11	1.5
4	1.4	2.0	4.1	41	6.7	16	47	25	14	13	8.7	2.4
5	2.4	2.4	3.2	39	5.9	20	49	20	20	7.1	4.2	12
6	2.9	2.6	3.5	37	5.4	14	45	28	34	3.7	108	9.6
7	3.2	2.9	3.2	34	5.4	14	43	37	23	2.3	42	13
8	3.1	2.9	2.6	21	5.6	359	41	35	18	1.7	13	5.6
9	3.0	2.8	2.5	22	5.4	752	38	34	10	1.6	6.9	2.5
10	2.8	2.9	3.6	31	4.4	326	37	34	6.5	3.8	4.4	1.4
11	3.0	4.5	4.6	27	4.4	238	36	33	5.0	3.7	3.0	1.0
12	2.9	12	4.8	17	10	205	33	34	3.8	3.5	2.1	.80
13	2.8	11	5.3	17	11	164	36	46	2.8	2.5	1.5	.64
14	2.6	9.5	6.6	21	7.7	132	37	46	2.5	1.7	.98	.64
15	2.4	8.5	8.5	16	6.3	108	35	58	2.5	1.4	.90	.64
16	2.2	8.0	7.1	15	5.2	89	33	54	5.0	1.4	.90	1.5
17	1.9	6.0	7.8	14	4.6	76	34	49	3.7	1.2	.90	2.4
18	1.6	6.9	8.8	14	5.9	61	58	34	20	.90	.80	2.8
19	2.8	7.3	9.3	13	7.1	52	82	31	25	.72	.72	19
20	3.8	8.3	9.6	13	8.5	47	1240	36	21	.64	.56	14
21	8.3	6.4	10	13	11	43	437	34	21	.56	.50	10
22	5.4	5.0	11	13	30	41	228	33	22	.56	.44	8.5
23	3.7	4.4	11	13	25	40	156	32	20	.44	.44	7.8
24	2.8	3.8	11	12	21	39	117	31	25	.38	.50	7.6
25	2.7	3.1	14	13	18	40	87	26	62	.44	.50	7.1
26	4.6	2.6	16	11	18	40	67	15	30	.44	.44	6.7
27	5.7	2.2	20	9.6	17	41	52	34	15	.50	.44	4.3
28	10	1.6	98	11	13	40	43	19	16	.56	1.9	2.5
29	4.1	1.2	466	12	10	69	41	12	15	.56	.72	1.6
30	2.3	1.0	147	12	---	89	40	9.8	14	.44	.44	.97
31	1.4	---	88	12	---	70	---	8.3	---	.44	.50	---
TOTAL	99.8	135.3	1009.4	681.6	303.2	3264.9	3352	992.1	485.2	103.18	224.32	150.69
MEAN	3.22	4.51	32.6	22.0	10.5	105	112	32.0	16.2	3.33	7.24	5.02
MAX	10	12	466	62	30	752	1240	58	62	19	108	19
MIN	1.3	1.0	1.5	9.6	4.4	8.9	33	8.3	2.5	.38	.44	.64
CFSM	.02	.03	.22	.15	.07	.71	.76	.22	.11	.02	.05	.03
IN.	.03	.03	.26	.17	.08	.83	.85	.25	.12	.03	.06	.04
AC-FT	198	268	2000	1350	601	6480	6650	1970	962	205	445	299

CAL YR 1975	TOTAL	64049.90	MEAN	175	MAX	4000	MIN	1.0	CFSM	1.19	IN	16.21	AC-FT	127000
WTR YR 1976	TOTAL	10801.69	MEAN	29.5	MAX	1240	MIN	.38	CFSM	.20	IN	2.73	AC-FT	21430

07249400 JAMES FORK NEAR HACKETT, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1960 to September 1971, October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)
OCT										
01...	9827	9827	--	1.4	452	7.5	19.0	21.0	15	10
22...	1028	1028	--	5.5	--	--	--	15.0	--	--
29...	9827	9827	--	4.2	354	7.3	21.0	19.0	15	5
NOV										
11...	--	--	4.5	--	--	--	--	--	--	--
DEC										
03...	9827	9827	--	5.1	526	7.6	11.0	9.0	15	6
04...	1028	1028	--	3.8	--	--	--	9.0	--	--
JAN										
07...	9827	9827	--	39	287	7.3	.0	5.0	40	25
14...	1028	1028	--	19	--	--	--	5.5	--	--
15...	--	--	16	--	--	--	--	--	--	--
15...	--	--	76	--	--	--	--	--	--	--
FEB										
04...	9827	9827	--	8.9	400	7.6	13.0	10.0	15	5
24...	1028	1028	--	21	--	--	--	10.5	--	--
MAR										
03...	9827	9827	--	20	335	7.3	22.0	21.0	10	10
31...	9827	9827	--	--	266	7.3	14.0	16.0	50	25
APR										
06...	1028	1028	--	45	--	--	--	15.0	--	--
21...	--	--	437	--	--	--	--	--	--	--
MAY										
05...	9827	9827	--	12	392	7.6	16.0	21.0	15	15
18...	1028	1028	--	42	--	--	--	15.5	--	--
JUN										
02...	9827	9827	--	6.5	536	7.6	24.0	25.0	10	<25
16...	1028	1028	--	5.4	--	--	--	22.0	--	--
16...	--	--	5.0	--	--	--	--	--	--	--
JUL										
06...	9827	9827	--	3.8	431	7.5	25.0	27.0	20	15
27...	1028	1028	--	.49	--	--	--	25.0	--	--
AUG										
03...	9827	9827	--	6.1	868	8.2	23.0	27.0	30	15
SEP										
07...	9827	9827	--	15	414	7.7	20.0	24.0	20	7
07...	1028	1028	--	14	--	--	--	23.5	--	--

07249400 JAMES FORK NEAR HACKETT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)
OCT										
01...	6.6	73	2.6	550	600	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	6.3	67	.9	580	13	--	--	--	--	--
NOV										
11...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	10.7	92	2.3	60	7	--	200	100	41	100
04...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	11.8	92	--	330	220	460	100	72	19	48
14...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	11.4	101	1.5	33	18	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	7.6	84	2.6	190	100	--	--	--	--	--
31...	8.6	86	1.0	250	95	--	90	61	19	48
APR										
06...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	9.2	102	2.4	60	8	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	6.2	77	1.0	--	120	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	5.8	72	--	200	15	120	130	71	26	66
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	3.6	44	1.4	160	30	100	--	--	--	--
SEP										
07...	5.2	61	1.0	240	55	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)
OCT										
01...	--	--	--	--	--	--	--	--	10	328
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	6.0	277
NOV										
11...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	25	43	3.1	120	0	98	4.8	220	10	390
04...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	12	--	--	34	0	28	2.7	75	7.5	207
14...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	--	--	--	--	--	--	--	150	10	292
24...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	140	10	219
31...	10	16	2.0	35	0	29	2.8	120	7.0	191
APR										
06...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	--	--	--	--	--	--	--	95	7.5	238
18...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	--	--	--	--	--	--	200	10	351
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	16	29	2.6	72	0	59	3.6	58	8.5	278
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	76	21	531
SEP										
07...	--	--	--	--	--	--	--	100	9.0	236
07...	--	--	--	--	--	--	--	--	--	--

07249400 JAMES FORK NEAR HACKETT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NON-FILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)
OCT										
01...	32	360	<.10	<.01	--	<10	0	60	870	10
22...	--	--	--	--	--	--	--	--	--	--
29...	14	291	<.10	<.01	--	--	--	100	220	--
NOV										
11...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	9	399	.41	.02	<3	<10	0	160	400	40
04...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	18	225	.78	.02	--	--	--	170	1400	--
14...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	26	318	.33	.01	--	--	--	90	310	--
24...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	22	241	.12	.02	--	--	--	110	690	--
31...	12	203	.49	<.01	<3	<10	<3	70	2000	30
APR										
06...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	47	285	.38	.03	--	--	--	80	820	--
18...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	10	361	.43	.03	--	--	--	50	590	10
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	16	294	.17	.04	<3	<10	<3	200	800	20
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	32	563	.13	.02	--	--	--	90	570	--
SEP										
07...	24	260	<.10	.01	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT										
01...	560	70	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	120	110	--	--	--	--	--	--	--	--
NOV										
11...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	170	70	.00	.00	.00	.00	.00	.00	.00	<1
04...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	270	200	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	400	80	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	360	100	--	--	--	--	--	--	--	--
31...	360	100	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	650	60	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	580	50	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	350	140	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	1300	70	--	--	--	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--

07250000 LEE CREEK NEAR VAN BUREN, AR

LOCATION.--Lat 35°29'40", long 94°26'58", in SE¼ sec.21, T.12 N., R.27 E., Indian Meridian, Sequoyah County, Okla., on right bank 300 ft (91 m) west of Arkansas-Oklahoma State line, 3.2 mi (5.1 km) downstream from Webbers Creek, 6.8 mi (10.9 km) northwest of Van Buren, and at mile 7.8 (12.6 km).

DRAINAGE AREA.--426 mi^2 (1,103 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1930 to June 1937, October 1950 to current year.

REVISED RECORDS.--WSP 1211: 1931(M). WSP 1441: 1935(M). WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 408.04 ft (124.371 m) above mean sea level (Corps of Engineers bench mark). September 1930 to June 1937, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years (1930-36, 1950-75), 513 ft^3/s (14.5 m^3/s), 16.35 in/yr (415 mm/yr), 371,700 acre-ft/yr (458 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 80,600 ft^3/s (2,280 m^3/s) May 6, 1960, gage height, 30.30 ft (9.235 m); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 15, 1945, reached a stage of about 35.0 ft (10.67 m), from floodmarks, discharge, about 112,000 ft^3/s (3,170 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft^3/s (370 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 20	1700	*37,200	1,050	22.48	6.852
May 12	2100	13,100	371	13.30	4.054

Minimum discharge, 1.2 ft^3/s (0.034 m^3/s) Sept. 13, 14, gage height, 0.48 ft (0.14 m).

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	74	21	886	671	108	208	455	914	866	118	4.3	2.8
2	70	21	581	564	103	198	402	730	523	103	5.6	2.6
3	74	34	450	484	100	188	365	590	377	96	8.9	2.6
4	75	43	370	417	100	181	335	481	301	293	7.5	3.1
5	70	98	330	369	99	208	307	418	249	314	8.4	3.0
6	64	150	4870	339	94	340	283	896	216	206	21	2.7
7	58	152	2380	313	93	289	262	866	199	155	19	2.4
8	53	146	1340	281	93	1520	244	590	186	123	17	2.0
9	49	134	931	248	91	5970	225	461	162	101	15	1.7
10	45	125	698	229	89	2750	208	518	140	83	12	1.5
11	41	115	556	222	85	1770	194	763	123	70	9.4	1.4
12	39	121	468	217	87	3120	183	2930	110	56	8.4	1.4
13	35	118	406	207	90	2200	178	7360	101	48	7.1	1.2
14	32	107	368	196	89	1530	178	2920	89	36	6.3	4.1
15	30	98	352	188	90	1200	182	2420	85	31	5.6	23
16	28	90	376	175	90	969	190	2400	92	31	4.7	34
17	26	85	360	164	90	780	291	1770	80	28	4.5	30
18	24	79	317	157	93	660	671	1260	116	24	4.3	63
19	22	81	280	150	103	577	2000	963	132	20	3.8	55
20	20	353	254	149	133	515	22400	743	126	17	3.8	51
21	20	598	237	147	158	453	9070	584	113	15	3.4	44
22	19	389	221	145	431	395	3630	481	98	13	3.1	34
23	18	293	207	143	393	352	2190	404	87	11	2.6	26
24	19	237	199	139	342	326	1540	351	101	8.9	2.4	21
25	20	203	215	140	306	311	1340	322	437	7.5	2.2	18
26	21	185	250	128	279	297	1060	293	461	8.4	2.1	16
27	22	170	315	126	254	274	853	330	293	6.3	2.0	13
28	22	156	389	128	234	261	872	466	216	5.6	2.8	12
29	21	158	569	124	218	327	1530	451	174	5.0	3.1	12
30	21	554	804	121	---	570	1140	346	143	4.5	2.3	12
31	21	---	798	119	---	546	---	698	---	4.3	2.1	---
TOTAL	1153	5114	20777	7200	4535	29285	52778	34719	6396	2042.5	204.7	496.5
MEAN	37.2	170	670	232	156	945	1759	1120	213	65.9	6.60	16.6
MAX	75	598	4870	671	431	5970	22400	7360	866	314	21	63
MIN	18	21	199	119	85	181	178	293	80	4.3	2.0	1.2
CFSM	.09	.40	1.57	.54	.37	2.22	4.13	2.63	.50	.15	.02	.04
IN.	.10	.45	1.81	.63	.40	2.56	4.61	3.03	.56	.18	.02	.04
AC-FT	2290	10140	41210	14280	9000	58090	104700	68870	12690	4050	406	985

CAL YR 1975 TOTAL 223173.3 MEAN 611 MAX 7060 MIN 9.3 CFSM 1.43 IN 19.49 AC-FT 442700
WTR YR 1976 TOTAL 164700.7 MEAN 450 MAX 22400 MIN 1.2 CFSM 1.06 IN 14.38 AC-FT 326700

07250000 LEE CREEK NEAR VAN BUREN, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1971 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
01...	9827	9827	71	87	7.4	19.0	23.0	10	5	8.7
01...	1028	1028	76	--	--	--	21.0	--	--	--
29...	9827	9827	23	93	7.5	20.0	22.0	10	6	9.0
NOV										
11...	1028	1028	113	--	--	--	17.5	--	--	--
DEC										
03...	9827	9827	455	77	7.4	13.0	12.0	70	30	11.5
18...	1028	1028	313	--	--	--	5.5	--	--	--
FEB										
02...	1028	1028	100	--	--	--	6.0	--	--	--
04...	9827	9827	100	80	7.5	12.0	11.0	15	4	11.7
MAR										
03...	9827	9827	189	84	7.3	28.0	18.0	15	15	9.6
26...	1028	1028	320	--	--	--	14.5	--	--	--
APR										
20...	1028	1028	28900	--	--	--	13.5	--	--	--
27...	1028	1028	825	--	--	--	15.0	--	--	--
MAY										
05...	9827	9827	418	90	7.6	18.0	21.0	25	15	9.5
JUN										
03...	1028	1028	381	--	--	--	23.0	--	--	--
JUL										
06...	9827	9827	206	100	7.5	28.0	29.0	40	35	8.2
14...	1028	1028	37	--	--	--	29.0	--	--	--
AUG										
03...	9827	9827	16	128	7.4	25.0	30.0	15	4	6.7
20...	1028	1028	4.0	--	--	--	29.0	--	--	--
SEP										
07...	9827	9827	2.4	125	7.7	23.0	27.0	10	2	7.8

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
01...	100	1.4	13	25	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
29...	103	1.8	110	20	--	--	--	--	--	--
NOV										
11...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	107	2.0	300	4	--	34	0	7.0	18	4.0
18...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
04...	106	1.8	20	32	--	--	--	--	--	--
MAR										
03...	101	1.5	<7	110	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	106	1.0	700	76	--	--	--	--	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	105	--	--	560	150	40	0	15	38	<1.0
14...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	88	1.7	1900	450	25	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	96	2.1	20	<10	--	--	--	--	--	--

07250000 LEE CREEK NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
01...	--	--	--	--	--	--	5.0	5.0	52	5
01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	<1.0	7.0	76	14
NOV										
11...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	2.5	1.0	51	0	42	3.2	2.0	5.5	56	10
18...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	4.0	6.5	58	15
MAR										
03...	--	--	--	--	--	--	6.0	5.5	56	16
26...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	--	--	--	--	--	--	<1.0	4.5	70	30
JUN										
03...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	4.2	1.6	52	0	43	2.6	3.0	5.5	85	17
14...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	2.0	5.0	--	--
20...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	2.0	3.0	64	3

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
01...	57	<.10	<.01	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
29...	90	<.10	<.01	--	--	--	20	260	--	38
NOV										
11...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	66	.29	.04	<3	<10	0	<10	1300	<10	43
18...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
04...	73	<.10	<.01	--	--	--	--	--	--	--
MAR										
03...	72	<.01	.03	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	100	<.10	.01	--	--	--	--	--	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	102	.17	.06	<3	<10	<3	<10	1600	<10	54
14...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	86	<.10	.04	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	67	.31	.01	--	--	--	--	--	--	--

07250000 LEE CREEK NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
01...	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--
29...	30	--	--	--	--	--	--	--	--
NOV									
11...	--	--	--	--	--	--	--	--	--
DEC									
03...	<10	.00	.00	.00	.00	.00	.00	.00	<1
18...	--	--	--	--	--	--	--	--	--
FEB									
02...	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--
MAR									
03...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
APR									
20...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
MAY									
05...	--	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
JUL									
06...	<10	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
SEP									
07...	--	--	--	--	--	--	--	--	--

07250500 ARKANSAS RIVER AT VAN BUREN, AR

LOCATION.--Lat 35°25'46", long 94°21'26", in SE¼SW¼ sec.25, T.9 N., R.32 W., Crawford County, near left bank on upstream side of bridge on U.S. Highway 64 and 71 at Van Buren, 1.4 mi (2.3 km) downstream from Lee Creek, 8.7 mi (14.0 km) downstream from Poteau River, and at mile 316.5 (509.2 km).

DRAINAGE AREA.--150,482 mi² (242,126 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1945 to September 1970, April 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1945 to September 1970.
SEDIMENT RECORDS: October 1967 to September 1970.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
01...	9827	9827	6480	756	8.1	18.0	23.0	15	15	9.8
29...	9827	9827	6900	462	7.9	20.0	22.0	10	15	9.6
DEC										
03...	9827	9827	18600	526	8.0	13.0	12.0	25	15	11.7
JAN										
07...	9827	9827	15300	447	7.9	<1.0	4.0	30	20	13.0
FEB										
04...	9827	9827	18400	458	8.9	12.0	11.0	15	8	14.2
MAR										
03...	9827	9827	12700	505	8.1	27.0	19.0	10	10	10.7
31...	9827	9827	24400	564	7.9	16.0	18.0	55	45	9.8
MAY										
05...	9827	9827	32600	392	8.0	17.0	23.0	30	40	9.1
JUN										
02...	9827	9827	44400	1100	8.2	27.0	26.0	30	40	9.9
JUL										
06...	9827	9827	98500	712	8.0	26.0	27.0	15	45	7.7
AUG										
03...	9827	9827	6860	505	8.0	24.0	30.0	40	20	7.0
SEP										
07...	9827	9827	.00	627	8.1	22.0	27.0	15	7	8.0

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
01...	112	3.2	56000	11000	--	--	--	--	--	--
29...	109	2.7	91000	6400	--	--	--	--	--	--
DEC										
03...	108	2.8	76000	6000	--	150	35	40	100	12
JAN										
07...	99	--	130000	4900	2700	120	30	32	80	9.0
FEB										
04...	128	4.6	3800	200	--	--	--	--	--	--
MAR										
03...	114	4.2	65000	11000	--	--	--	--	--	--
31...	103	1.2	64000	5000	--	120	30	39	98	6.0
MAY										
05...	105	2.9	220000	18000	--	--	--	--	--	--
JUN										
02...	121	3.2	--	9800	--	--	--	--	--	--
JUL										
06...	95	--	36000	2100	200	150	43	46	110	9.0
AUG										
03...	92	3.4	720000	33000	400	--	--	--	--	--
SEP										
07...	99	3.3	16000	1800	--	--	--	--	--	--

07250500 ARKANSAS RIVER AT VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
01...	--	--	--	--	--	--	95	140	492	30
29...	--	--	--	--	--	--	83	69	305	17
DEC										
03...	61	4.0	140	0	115	2.2	53	82	319	23
JAN										
07...	--	--	110	0	90	2.2	33	60	260	16
FEB										
04...	--	--	--	--	--	--	42	68	283	18
MAR										
03...	--	--	--	--	--	--	46	83	294	12
31...	68	4.0	110	0	90	2.2	53	100	341	58
MAY										
05...	--	--	--	--	--	--	29	54	211	62
JUN										
02...	--	--	--	--	--	--	92	250	610	67
JUL										
06...	80	3.9	130	0	107	2.1	57	140	400	54
AUG										
03...	--	--	--	--	--	--	38	65	281	21
SEP										
07...	--	--	--	--	--	--	50	95	332	16

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
01...	522	.17	.08	--	<10	0	<10	540	<10	120
29...	322	.28	.06	--	--	--	<10	530	--	60
DEC										
03...	342	.52	.08	<3	<10	0	<10	700	10	100
JAN										
07...	276	.70	.10	--	--	--	--	--	--	--
FEB										
04...	301	.15	.06	--	--	--	--	--	--	--
MAR										
03...	306	<.10	.07	--	--	--	--	--	--	--
31...	399	.27	.09	<3	<10	<3	<10	1700	<10	160
MAY										
05...	273	.22	.12	--	--	--	--	--	--	--
JUN										
02...	677	.23	.08	--	--	--	--	--	--	--
JUL										
06...	454	.20	.07	<3	<10	<3	10	1800	<10	140
AUG										
03...	302	.29	.14	--	--	--	--	--	--	--
SEP										
07...	348	.16	.03	--	--	--	--	--	--	--

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
01...	<10	--	--	--	--	--	--	--	--
29...	30	--	--	--	--	--	--	--	--
DEC									
03...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
07...	--	--	--	--	--	--	--	--	--
FEB									
04...	--	--	--	--	--	--	--	--	--
MAR									
03...	--	--	--	--	--	--	--	--	--
31...	<10	--	--	--	--	--	--	--	--
MAY									
05...	--	--	--	--	--	--	--	--	--
JUN									
02...	--	--	--	--	--	--	--	--	--
JUL									
06...	10	--	--	--	--	--	--	--	--
AUG									
03...	--	--	--	--	--	--	--	--	--
SEP									
07...	--	--	--	--	--	--	--	--	--

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W., Sebastian County, in Dam No. 13 control house on right bank, and at mile 308.9 (497.0 km).

DRAINAGE AREA.--150,547 mi^2 (389,917 km^2), of which 22,241 mi^2 (57,604 km^2) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Prior to October 1969, published as 07250500 Arkansas River at Van Buren. Gage-height records collected at Fort Smith, 16.3 mi (26.2 km) upstream from 1879 to December 1955, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: 1934-36. WSP 1561: 1954. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage and gate position recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, and Oct. 1, 1934, to Dec. 20, 1969, recording gage at site 7.9 mi (12.7 km) upstream at datum 372.36 ft (113.495 m) higher.

REMARKS.--Records good. Beginning Apr. 26, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream.

AVERAGE DISCHARGE.--49 years, 31,770 ft^3/s (900 m^3/s), 23,020,000 acre-ft/yr (28,400 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 850,000 ft^3/s (24,100 m^3/s) May 12, 1943, gage height, 38.0 ft (11.58 m), from floodmark, site and datum then in use; maximum gage height, 38.10 ft (11.613 m), former site and datum, Apr. 16, 1945; no flow Nov. 2, 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1833, that of Apr. 16, 1945, and maximum discharge since at least 1833, that of May 12, 1943. Flood in June 1833 reached a stage of 38.0 ft (11.6 m) on Fort Smith gage, from records collected by National Weather Service. Flood of Apr. 16, 1927, reached a stage of 35.0 ft (10.67 m), former site and datum, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 165,000 ft^3/s (4,670 m^3/s) Apr. 21, tailwater elevation, 391.43 ft (119.308 m); no flow Nov. 2.

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	13100	33	9960	14100	70	4020	17300	56200	46200	23900	17700	48
2	9190	0	11700	11200	5160	5140	20300	51400	45400	21900	21600	3530
3	7880	6830	9760	12600	4710	7130	4150	48400	40400	19900	25100	3440
4	3840	17500	14000	12000	7220	8060	1850	43800	38200	54300	22000	245
5	5270	17700	12200	14400	5580	9460	11700	36500	38800	89100	18100	1240
6	10300	14800	24800	11800	6080	4830	10700	47600	33000	100000	14800	1710
7	8980	16700	19800	20100	6990	1480	9500	49300	28400	104000	2690	12500
8	7480	127	19200	23500	1890	18500	8650	42200	24300	95900	128	12700
9	13400	652	10800	34100	6660	37000	8920	37700	29200	93900	9730	11500
10	13100	11400	13400	27900	5090	37500	2860	39900	26600	95500	14600	2900
11	5110	7030	7220	12700	9190	30300	1020	42200	19100	101000	13200	588
12	10300	5510	11500	11200	5530	34000	12400	46300	20900	90200	14300	1640
13	19900	6540	2610	10200	6140	16600	12400	69100	892	90100	16000	8260
14	16800	9270	6380	4810	186	20200	11200	60700	19000	103000	14300	9800
15	11800	33	17700	5030	224	20600	13800	50300	17300	97400	316	12700
16	5050	1550	16800	4290	5770	24100	8870	45500	17800	94600	15000	10200
17	5820	8620	16100	4760	3630	23900	4080	44200	18400	75800	18000	15400
18	3910	9240	20300	61	5830	23200	12000	48700	19100	68600	19600	10400
19	2820	7030	17400	10300	4600	21200	34200	47200	12400	66900	18400	1090
20	9250	13400	9700	9170	4720	16000	118000	40500	7590	61900	6320	15500
21	8150	13700	2940	6980	3250	19700	162000	30500	19200	40100	701	11500
22	8660	1530	5950	1240	737	22400	140000	35000	16700	41300	175	5370
23	8570	324	9800	3940	7140	16700	112000	42000	14200	48800	16200	3660
24	7640	12000	2880	1060	8710	15500	72000	40800	22100	44400	14700	2480
25	6530	16400	941	1080	3050	11300	64500	30300	34700	38300	13700	256
26	3210	17700	4530	4770	7310	11000	68300	19100	40600	37200	19000	2010
27	6290	324	6540	6000	4890	1340	51300	39900	30500	37100	16400	12100
28	9500	9360	12400	3060	62	1080	45800	28000	30000	31600	2330	6620
29	11400	717	12400	5130	1560	19300	50900	42700	22700	30100	692	9350
30	9690	1590	10600	2650	---	16300	67400	43100	15100	25300	13000	10600
31	10000	---	12000	16	---	13700	---	39800	---	21400	5100	---
TOTAL	272940	227610	352311	290147	131979	511540	1158100	1338900	748782	1943500	383882	199337
MEAN	8805	7587	11360	9360	4551	16500	38600	43190	24960	62690	12380	6645
MAX	19900	17700	24800	34100	9190	37500	162000	69100	46200	104000	25100	15500
MIN	2820	0	941	16	62	1080	1020	19100	892	19900	128	48
AC-FT	541400	451500	698800	575500	261800	1015000	2297000	2656000	1485000	3855000	761400	395400

CAL YR 1975 TOTAL 17104827 MEAN 46860 MAX 145000 MIN 0 AC-FT 33930000
WTR YR 1976 TOTAL 7559028 MEAN 20650 MAX 162000 MIN 0 AC-FT 14990000

ARKANSAS RIVER BASIN

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued
(National tritium and pesticide station)
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to current year.
WATER TEMPERATURES: October 1969 to September 1972, March 1974 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1970 to September 1975.

INSTRUMENTATION.--Water-quality monitor since October 1969.

COOPERATION.--Pesticide samples were collected by the U.S. Geological Survey and were analyzed by Environmental Protection Agency. Sediment records furnished by Corps of Engineers, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 950 mg/L Oct. 27, 1970; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 347,245 tons (315,021 tonnes) Dec. 10, 1971; minimum daily, 0 tons (0 tonnes) on many days.

EXTREMES FOR 1975 WATER YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 560 mg/L Nov. 11; minimum daily mean, 0 mg/L Oct. 13, July 27, Sept. 1, 7, 13, 14.
SEDIMENT LOADS: Maximum daily, 316,000 tons (286,700 tonnes) Nov. 11; minimum daily, 0 tons (0 tonnes) Oct. 13, July 27, Sept. 1, 7, 13, 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
02...	1028	1028	9190	--	876	8.0	19.0	10	B2300	B40	190
30...	1028	1028	9690	--	531	7.5	17.0	2	1800	B37	140
NOV											
26...	1028	1028	17700	--	565	7.2	6.5	20	170	300	140
JAN											
28...	1028	1028	3060	--	511	8.4	4.5	10	B270	B63	130
FEB											
19...	1028	1028	4600	--	524	8.2	10.0	10	330	--	120
19-29	1028	1028	--	--	--	--	--	--	--	--	--
MAR											
01-16	1028	1028	--	--	--	--	--	--	--	--	--
16...	1028	1028	24100	--	602	7.8	11.0	26	940	92	120
16-31	1028	1028	--	--	--	--	--	--	--	--	--
APR											
01-08	1028	1028	--	--	--	--	--	--	--	--	--
08...	1028	1028	8650	--	606	7.5	16.0	18	440	<4	140
29...	1028	1028	50900	--	315	7.1	14.0	42	1100	330	94
JUN											
09...	1028	1028	29200	--	981	7.8	23.0	25	460	--	170
JUL											
13...	1028	1028	--	83600	--	--	27.0	--	--	--	--
20...	1028	1028	--	59500	--	--	27.5	--	--	--	--
AUG											
04...	1028	1028	22000	--	477	7.9	27.5	15	B3200	B37	120
SEP											
01...	1028	1028	48	--	446	7.4	24.0	15	610	B4	130
01-29	1028	1028	--	--	--	--	--	--	--	--	--
29...	1028	1028	9350	--	511	7.8	21.5	15	970	B64	110

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)
OCT											
02...	56	52	14	100	53	3.2	4.3	160	0	131	2.6
30...	30	41	9.1	48	42	1.8	2.8	134	0	110	6.8
NOV											
26...	34	41	10	54	44	2.0	3.8	133	0	109	13
JAN											
28...	27	38	8.2	46	43	1.8	3.2	124	0	102	.8
FEB											
19...	20	37	7.6	47	44	1.8	3.4	126	0	103	1.3
19-29	--	--	--	--	--	--	--	--	--	--	--
MAR											
01-16	--	--	--	--	--	--	--	--	--	--	--
16...	33	33	8.7	72	56	2.9	3.0	104	0	85	2.6
16-31	--	--	--	--	--	--	--	--	--	--	--
APR											
01-08	--	--	--	--	--	--	--	--	--	--	--
08...	34	41	8.3	62	49	2.3	3.3	125	0	103	6.3
29...	17	27	6.4	22	33	1.0	2.8	94	0	77	12
JUN											
09...	60	47	12	130	62	4.4	3.5	130	0	107	3.3
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	31	37	7.4	45	43	1.8	3.7	112	0	92	2.3
SEP											
01...	43	39	8.9	63	50	2.4	3.8	111	0	91	7.1
01-29	--	--	--	--	--	--	--	--	--	--	--
29...	33	33	7.8	51	48	2.1	3.6	99	0	81	2.5

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SILICA (SIO2) (MG/L) (00955)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)
OCT											
02...	64	150	.2	.9	480	464	.65	11900	.10	1.3	1.4
30...	32	72	.2	2.8	284	274	.39	7430	.13	.91	1.0
NOV											
26...	33	80	.2	4.1	305	292	.41	14600	.23	.95	1.2
JAN											
28...	35	70	.2	1.5	273	263	.37	2260	.25	1.2	1.5
FEB											
19...	35	73	.2	.1	273	265	.37	3390	.15	1.1	1.3
19-29	--	--	--	--	--	--	--	--	--	--	--
MAR											
01-16	--	--	--	--	--	--	--	--	--	--	--
16...	40	100	.2	1.5	327	310	.44	21300	.14	1.1	1.2
16-31	--	--	--	--	--	--	--	--	--	--	--
APR											
01-08	--	--	--	--	--	--	--	--	--	--	--
08...	38	100	.2	.1	330	315	.45	7710	.27	.81	1.1
29...	25	32	.2	2.9	181	165	.25	24900	.38	.76	1.1
JUN											
09...	63	200	.3	3.6	514	523	.70	40500	.29	.58	.87
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	34	65	.2	5.0	269	253	.37	16000	.28	.45	.73
SEP											
01...	40	94	.3	4.7	328	308	.45	42.5	.22	.34	.56
01-29	--	--	--	--	--	--	--	--	--	--	--
29...	32	79	.2	4.5	270	260	.37	6820	.20	1.1	1.3

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)
OCT											
02...	6.2	3	0	3	<10	<10	0	10	0	10	<50
30...	4.6	6	4	2	0	0	0	20	10	10	<50
NOV											
26...	5.2	--	--	--	--	--	--	--	--	--	--
JAN											
28...	6.4	0	0	0	<10	<10	0	10	10	0	<50
FEB											
19...	5.5	--	--	--	--	--	--	--	--	--	--
19-29	--	--	--	--	--	--	--	--	--	--	--
MAR											
01-16	--	--	--	--	--	--	--	--	--	--	--
16...	5.5	--	--	--	--	--	--	--	--	--	--
16-31	--	--	--	--	--	--	--	--	--	--	--
APR											
01-08	--	--	--	--	--	--	--	--	--	--	--
08...	4.8	0	0	0	<10	<10	0	0	0	0	<50
29...	5.0	2	2	0	<10	<9	1	0	0	0	<50
JUN											
09...	3.9	--	--	--	--	--	--	--	--	--	--
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	3.2	3	0	3	<10	<10	0	10	10	0	<50
SEP											
01...	2.5	--	--	--	--	--	--	--	--	--	--
01-29	--	--	--	--	--	--	--	--	--	--	--
29...	5.8	--	--	--	--	--	--	--	--	--	--

DATE	SUS-PENDED COBALT (CO) (UG/L) (01036)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)
OCT										
02...	<50	0	10	6	4	580	30	<100	<98	2
30...	<50	0	10	6	4	580	30	0	0	0
NOV										
26...	--	--	--	--	--	--	--	--	--	--
JAN										
28...	<50	0	<10	<8	2	250	40	<100	<98	2
FEB										
19...	--	--	--	--	--	--	--	--	--	--
19-29	--	--	--	--	--	--	--	--	--	--
MAR										
01-16	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16-31	--	--	--	--	--	--	--	--	--	--
APR										
01-08	--	--	--	--	--	--	--	--	--	--
08...	<48	2	30	26	4	710	10	<100	<100	0
29...	<50	0	10	5	5	1900	40	<100	<100	0
JUN										
09...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	<49	1	20	17	3	880	10	<100	<100	0
SEP										
01...	--	--	--	--	--	--	--	--	--	--
01-29	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS-PENDED MERCURY (HG) (UG/L) (71895)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
OCT												
02...	90	80	10	--	--	.0	0	0	0	20	10	10
30...	100	100	0	.0	.0	.0	0	0	0	60	0	60
JAN												
28...	60	60	0	.0	.0	.0	1	1	0	20	20	0
APR												
08...	120	120	0	.0	.0	.0	0	0	0	30	20	10
29...	120	120	0	.0	.0	.0	0	0	0	20	10	10
AUG												
04...	80	80	0	.0	.0	.0	0	0	0	10	10	0

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MATERIAL (UG/KG) (39333)	TOTAL ATRAZINE (UG/L) (39630)	TOTAL CHLORDANE (UG/L) (39350)	CHLORDANE IN BOTTOM MATERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MATERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MATERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MATERIAL (UG/KG) (39373)
OCT												
02...	20	--	--	--	--	--	--	--	--	--	--	--
30...	4.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JAN												
28...	16	--	--	--	--	--	--	--	--	--	--	--
APR												
08...	6.3	--	--	--	--	--	--	--	--	--	--	--
29...	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG												
04...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL DIAZINON (UG/L) (39570)	DIAZINON IN BOTTOM MATERIAL (UG/KG) (39571)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL METHYL PARATHION (UG/L) (39600)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG) (39601)	TOTAL METHYL TRITHION (UG/L) (39790)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG) (39791)	TOTAL PARATHION (UG/L) (39540)	PARATHION IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL((UG/L) (39025)	TOTAL TOXAPHENE (UG/L) (39400)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG) (39403)
OCT												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
JAN												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
AUG												
04...	ND	--	ND	ND	--	ND	--	ND	--	ND	ND	--

DATE	TOTAL TRITHION (UG/L) (39786)	TRITHION IN BOTTOM MATERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	2,4-D IN BOTTOM MATERIAL (UG/KG) (39731)	TOTAL 2,4,5-T (UG/L) (39740)	2,4,5-T IN BOTTOM MATERIAL (UG/KG) (39741)	TOTAL SILVEX (UG/L) (39760)	SILVEX IN BOTTOM MATERIAL (UG/KG) (39761)	SUSPENDED SEDIMENT (MG/L) (80154)	SUSPENDED SEDIMENT DISCHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
02...	--	--	--	--	--	--	--	--	48	1190	43
30...	ND	ND	ND	--	ND	--	ND	--	30	785	61
NOV											
26...	--	--	--	--	--	--	--	--	36	1720	94
JAN											
28...	--	--	--	--	--	--	--	--	13	107	95
FEB											
19...	--	--	--	--	--	--	--	--	17	211	98
MAR											
16...	--	--	--	--	--	--	--	--	34	2210	88
APR											
08...	--	--	--	--	--	--	--	--	30	701	93
29...	ND	ND	ND	ND	ND	ND	ND	ND	55	7560	95
JUN											
09...	--	--	--	--	--	--	--	--	27	2130	97
AUG											
04...	ND	--	ND	--	ND	--	ND	--	32	1900	95
SEP											
01...	--	--	--	--	--	--	--	--	27	3.5	97
29...	--	--	--	--	--	--	--	--	26	656	97

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCT. 2, 1975
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

11,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...HYDRODICTYACEAE				
L	....PEDIASTRUM				0
	...SCENEDESMACEAE				
L	....SCENEDESMUS				0
	....TETRASTRUM			490	4
			TOTALS	490	4
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			8,200	74
	....MELOSIRA			850	8
	..PENNALES	PENNATE			
	...NITZSCHIACEAE				
	....NITZSCHIA			1,600	14
			TOTALS	11,000	96
	CYANOPHYTA	BLUE-GREEN ALGAE			
	.MYXOPHYCEAE				
	..OSCILLATORIALES	FILAMENTOUS			
	...NOSTOCACEAE				
L	....APHANIZOMENON				0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.260
CLASS 0.260
ORDER 0.842
FAMILY 0.842
GENERA 1.209

OCT. 30, 1975
0945 HOURS

IDENTIFICATION OF PHYTOPLANKTON

19,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....ANKISTRODESMUS			1,600	9
	....SELENASTRUM			460	2
	...SCENEDESMACEAE				
D	....SCENEDESMUS			2,800	15
	....TETRASTRUM			920	5
			TOTALS	5,800	31
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			3,000	16
	....MELOSIRA			460	2
	..PENNALES	PENNATE			
	...NITZSCHIACEAE				
D	....NITZSCHIA			9,700	51
			TOTALS	13,000	69

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.887
CLASS 0.887
ORDER 1.465
FAMILY 1.753
GENERA 2.098

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NOV. 26, 1975
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

6,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....TETRAEDRON			140	2
	...SCENEDESMACEAE				
	....SCENEDESMUS			550	9
	..VOLVOCALES				
	...CHLAMYDOMONADACEAE				
	....CHLAMYDOMONAS			140	2
			TOTALS	820	13
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			4,000	66
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			270	5
	...NITZSCHIACEAE				
	....NITZSCHIA			820	14
			TOTALS	5,000	85
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....PHACUS			140	2
			TOTALS	140	2

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.726
CLASS	0.726
ORDER	1.448
FAMILY	1.678
GENERA	1.678

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JAN. 28, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

12,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...MICRACTINIACEAE			
	....MICRACTINIUM		710	6
	...OOCYSTACEAE			
	....ANKISTRODESMUS		140	1
	....DICTYOSPHAERIUM		1,700	14
	....KIRCHNERIELLA		280	2
	....OOCYSTIS		280	2
	....WESTELLA		280	2
	...SCENEDESMACEAE			
L	....CRUCIGENIA			0
	..TETRASPORALES			
	...COCCOMYXACEAE			
L	....ELAKATOTHRIX			0
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CARTERIA		140	1
	....CHLAMYDOMONAS		280	2
		TOTALS	3,800	30
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		7,000	57
	....MELOSIRA		1,100	9
L	....STEPHANODISCUS			0
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
L	....SYNEDRA			0
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		71	1
	...NITZSCHIACEAE			
	....NITZSCHIA		210	2
		TOTALS	8,400	69
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
L	....ANACYSTIS			0
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....TRACHELOMONAS			0
	PYRRHOPHYTA	FIRE ALGAE		
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...GLENODINIACEAE			
	....GLENODINIUM		71	1
		TOTALS	71	1

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.942
CLASS	0.942
ORDER	1.243
FAMILY	1.465
GENERA	2.246

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

FEB. 19, 1976
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,900 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....ANKISTRODESMUS			120	3
L	....DICTYOSPHAERIUM				0
	....KIRCHNERIELLA			120	3
L	....OOCYSTIS				0
	...SCENEDESMACEAE				
L	....ACTINASTRUM				0
	..VOLVOCALES				
	...CHLAMYDOMONADACEAE				
	....CHLAMYDOMONAS			120	3
			TOTALS	370	9
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			3,300	84
L	....MELOSIRA				0
	..PENNALES	PENNATE			
	...DIATOMACEAE				
L	....DIATOMA				0
	...FRAGILARIACEAE				
L	....SYNEDRA				0
	...NAVICULACEAE	NAVICULOID			
L	....NAVICULA				0
	...NITZSCHIACEAE				
	....NITZSCHIA			120	3
			TOTALS	3,400	87
	EUGLENOPHYTA	EUGLENOIDS			
	.CRYPTOPHYCEAE	CRYPTOMONADS			
	..CRYPTOMONIDALES				
	...CRYPTOMONODACEAE				
	....CRYPTOMONAS			120	3
			TOTALS	120	3
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
L	....EUGLENA				0
L	....TRACHELOMONAS				0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.645
CLASS	0.645
ORDER	0.926
FAMILY	0.926
GENERA	0.988

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 16, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,200	62
D	....MELOSIRA		610	31
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....SYNEDRA		51	3
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		51	3
		TOTALS	1,900	99
	PYRRHOPHYTA	FIRE ALGAE		
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...GLENODINIACEAE			
	....GLENODINIUM		51	3
		TOTALS	51	3

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.172
CLASS	0.172
ORDER	0.462
FAMILY	0.513
GENERA	1.361

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APR. 8, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...COELASTRACEAE				
L	....COELASTRUM				0
	...OOCYSTACEAE				
	....ANKISTRODESMUS			84	2
	....OOCYSTIS			340	6
L	....TETRAEDRON				0
	...SCENEDESMACEAE				
D	....SCENEDESMUS			840	15
	....TETRASTRUM			340	6
	..VOLVOCALES				
	...CHLAMYDOMONADACEAE				
L	....CHLAMYDOMONAS				0
			TOTALS	1,600	29
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			3,200	58
	....MELOSIRA			84	2
	..PENNALES	PENNATE			
	...FRAGILARIACEAE				
L	....ASTERIONELLA				0
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			84	2
	...NITZSCHIACEAE				
	....NITZSCHIA			340	6
			TOTALS	3,700	68
	EUGLENOPHYTA	EUGLENOIDS			
	.CRYPTOPHYCEAE	CRYPTOMONADS			
	..CRYPTOMONIDALES				
	...CRYPTOMONODACEAE				
	....CRYPTOMONAS			84	2
			TOTALS	84	2
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....EUGLENA			84	2
L	....PHACUS				0
			TOTALS	84	2

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.054
CLASS	1.085
ORDER	1.431
FAMILY	1.729
GENERA	2.074

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APR. 29, 1976
1015 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCC..ES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		52	2
		TOTALS	52	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		630	25
D	....MELOSIRA		1,600	62
	....STEPHANODISCUS		100	4
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		160	6
		TOTALS	2,500	97

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.146
CLASS	0.146
ORDER	0.481
FAMILY	0.481
GENERA	1.481

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JUNE 9, 1976
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...COELASTRACEAE			
	....COELASTRUM		430	12
	...OOCYSTACEAE			
	....ANKISTRODESMUS		140	4
	....OOCYSTIS		290	8
	....TETRAEDRON		36	1
	...SCENEDESMACEAE			
	....CRUCIGENIA		140	4
D	....SCENEDESMUS		1,200	35
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CARTERIA		290	8
		TOTALS	2,600	72
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		580	17
	....MELOSIRA		72	2
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		72	2
	...NITZSCHIACEAE			
	....NITZSCHIA		140	4
		TOTALS	870	25
	PYRRHOPHYTA	FIRE ALGAE		
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...PERIDINIACEAE			
	....PERIDINIUM		36	1
		TOTALS	36	1

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.890
CLASS	0.890
ORDER	1.469
FAMILY	2.422
GENERA	2.877

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 4, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,900 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...CHARACIACEAE			
	....SCHROEDERIA		54	1
	...HYDRODICTYACEAE			
L	....PEDIASTRUM			0
	...OOCYSTACEAE			
	....TETRAEDRON		54	1
	...SCENEDESMACEAE			
	....CRUCIGENIA		210	4
	....SCENEDESMUS		430	7
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
	....CLOSTERIUM		54	1
		TOTALS	810	14
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,900	33
D	....MELOSIRA		1,100	19
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		750	13
		TOTALS	3,800	65
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....AGMENELLUM		860	15
	....ANACYSTIS		430	7
		TOTALS	1,300	22

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.279
CLASS	1.279
ORDER	1.789
FAMILY	1.883
GENERA	2.675

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SEP. 1, 1976
0830 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		74	1
	....DICTYOSPHAERIUM		300	5
	...SCENEDESMACEAE			
	....CRUCIGENIA		300	5
	....SCENEDESMUS		450	8
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		74	1
		TOTALS	1,200	20
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,300	24
	....MELOSIRA		300	5
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		370	7
		TOTALS	2,000	36
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		2,200	41
		TOTALS	2,200	41
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....EUGLENA			0
	....TRACHELOMONAS		74	1
		TOTALS	74	1

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.620
CLASS	1.620
ORDER	1.946
FAMILY	2.132
GENERA	2.515

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SEP. 29, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,700 CELLS/ML

	ORGANISM NAME	COMMON NAME		CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....TETRAEDRON			46	1
	....TREUBARIA			46	1
	...SCENEDESMACEAE				
D	....SCENEDESMUS			650	17
			TOTALS	740	19
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			1,700	45
D	....MELOSIRA			740	20
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			93	2
	...NITZSCHIACEAE				
	....NITZSCHIA			460	12
			TOTALS	3,000	79

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.722
CLASS 0.722
ORDER 1.279
FAMILY 1.485
GENERA 2.089

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
MAR. 16	26	13	9.6	3.4	4.7	0.2	620	POLYETHYLENE STRIP
APR. 8	23	22	14	8	3.1	.1	2600	POLYETHYLENE STRIP
SEP. 29	28	20.5	17.1	3.4	22.6	.58	150	POLYETHYLENE STRIP

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	711	564	686			
2	---	---	---	---	---	---	681	627	652			
3	---	---	---	---	---	---	699	606	653			
4	---	---	---	---	---	---	641	578	615			
5	---	---	---	---	---	---	692	470	590			
6	---	---	---	---	---	---	613	511	572			
7	---	---	---	444	438	441	638	500	583			
8	---	---	---	440	413	432	613	541	572			
9	---	---	---	---	---	---	609	540	576			
10	---	---	---	---	---	---	571	511	540			
11	---	---	---	---	---	---	507	459	471			
12	---	---	---	---	---	---	---	---	---			
13	---	---	---	---	---	---	---	---	---			
14	---	---	---	---	---	---	---	---	---			
15	---	---	---	---	---	---	---	---	---			
16	---	---	---	---	---	---	---	---	---			
17	489	486	488	494	467	482	---	---	---			
18	495	489	492	---	---	---	---	---	---			
19	498	492	495	---	---	---	---	---	---			
20	504	495	499	---	---	---	---	---	---			
21	507	501	503	---	---	---	---	---	---			
22	510	501	503	---	---	---	---	---	---			
23	504	498	501	---	---	---	---	---	---			
24	548	495	502	---	---	---	---	---	---			
25	562	520	542	---	---	---	---	---	---			
26	---	---	---	---	---	---	---	---	---			
27	---	---	---	---	---	---	---	---	---			
28	---	---	---	---	---	---	---	---	---			
29	---	---	---	---	---	---	642	594	627			
30	---	---	---	---	---	---	---	---	---			
31	---	---	---	---	---	---	---	---	---			
MONTH	---	---	---	---	---	---	---	---	---			

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	470	466	468	582	569	575
2				---	---	---	474	455	464	581	570	576
3				---	---	---	458	452	454	582	574	578
4				---	---	---	455	449	452	581	573	577
5				---	---	---	462	446	451	585	574	580
6				---	---	---	449	437	443	587	578	582
7				---	---	---	439	432	435	588	577	583
8				---	---	---	437	430	433	579	494	552
9				655	612	653	435	430	433	603	580	590
10				652	646	648	437	428	432	616	592	602
11				642	626	633	445	434	439	604	592	598
12				623	610	615	453	443	448	605	592	594
13				608	574	591	461	451	455	596	590	593
14				565	494	529	466	453	458	599	489	572
15				498	485	493	468	455	461	553	485	511
16				490	455	476	464	453	457	572	543	565
17				482	450	464	466	456	462	576	546	565
18				476	472	474	470	462	466	565	533	555
19				471	464	467	481	464	471	562	557	561
20				463	457	460	488	479	483	562	495	538
21				458	453	455	491	484	487	528	466	500
22				458	452	454	491	484	487	534	493	519
23				657	447	451	493	482	487	536	498	516
24				460	452	456	509	491	502	541	529	535
25				463	459	460	530	507	514	544	539	540
26				466	458	463	546	530	541	544	536	540
27				467	463	465	575	547	563	534	500	519
28				468	464	466	582	568	574	506	477	493
29				471	465	469	578	570	574	539	485	505
30				477	468	473	579	571	577	534	522	527
31				476	467	471	584	573	577	---	---	---
MONTH				---	---	---	584	428	482	616	466	555

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	8.1	8.2	7.7	7.5	7.6	---	---	---	6.9	6.6	6.8
2	8.1	7.9	8.0	---	---	---	---	---	---	6.9	6.8	6.8
3	8.7	8.5	8.5	---	---	---	---	---	---	7.1	7.0	7.1
4	8.8	8.5	8.6	9.4	8.0	8.5	---	---	---	7.3	7.2	7.3
5	8.8	8.6	8.6	8.3	7.8	7.9	8.2	7.3	7.7	7.5	7.4	7.5
6	8.7	8.6	8.6	8.0	7.8	7.9	8.0	7.0	7.5	7.7	7.6	7.7
7	8.7	8.5	8.6	8.4	8.0	8.2	7.3	7.2	7.3	7.9	7.9	7.9
8	8.7	8.5	8.6	8.2	8.0	8.1	7.6	7.5	7.6	---	---	---
9	8.8	8.6	8.6	8.5	8.0	8.1	7.9	7.8	7.8	---	---	---
10	8.5	8.4	8.5	8.2	8.1	8.1	8.5	8.0	8.1	---	---	---
11	8.6	8.3	8.4	8.2	8.0	8.1	8.3	8.0	8.2	---	---	---
12	8.6	8.4	8.5	8.2	8.1	8.2	8.4	8.1	8.1	---	---	---
13	8.7	8.5	8.6	8.3	8.3	8.3	9.9	8.3	9.1	---	---	---
14	8.8	7.7	8.5	8.3	8.3	8.3	9.9	8.2	9.1	---	---	---
15	8.2	7.9	8.0	8.3	8.2	8.3	---	---	---	---	---	---
16	8.4	7.5	8.0	8.4	8.3	8.3	8.5	8.1	8.1	---	---	---
17	8.5	7.9	8.1	8.4	8.3	8.3	8.4	8.1	8.2	---	---	---
18	8.5	8.4	8.4	8.2	8.1	8.2	8.2	8.2	8.2	---	---	---
19	8.5	8.3	8.4	8.5	8.0	8.1	8.3	8.1	8.1	---	---	---
20	8.5	8.4	8.5	8.0	7.9	8.0	8.2	8.1	8.1	---	---	---
21	8.6	8.5	8.5	7.9	7.8	7.9	8.2	8.1	8.2	---	---	---
22	8.6	8.5	8.5	7.8	7.7	7.7	8.2	8.1	8.1	---	---	---
23	8.5	8.4	8.4	7.6	7.5	7.6	8.1	8.1	8.1	8.7	8.6	8.6
24	8.4	8.1	8.3	7.5	7.4	7.5	8.3	8.1	8.1	9.3	8.6	8.7
25	8.1	8.0	8.1	7.3	7.2	7.3	9.0	8.4	8.6	---	---	---
26	8.0	7.8	7.9	7.2	7.1	7.2	8.5	8.1	8.3	9.0	8.6	8.6
27	7.9	7.8	7.8	7.4	7.3	7.4	8.4	8.0	8.2	8.6	8.5	8.5
28	8.1	7.6	7.8	8.3	7.6	7.7	---	---	---	8.5	8.4	8.5
29	7.8	7.6	7.6	---	---	---	---	---	---	8.6	8.5	8.5
30	7.5	7.5	7.5	---	---	---	6.5	6.3	6.3	8.7	8.6	8.6
31	7.7	7.6	7.6	---	---	---	6.5	6.3	6.4	8.9	8.8	8.8
MONTH	8.8	7.5	8.3	9.4	7.1	8.0	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.0	8.9	8.9	---	---	---	8.0	7.7	7.9	7.8	7.7	7.8
2	9.0	8.9	8.9	---	---	---	8.0	7.7	8.0	7.7	7.6	7.7
3	9.0	8.9	8.9	---	---	---	8.1	7.7	7.9	7.7	7.6	7.7
4	9.0	8.9	9.0	---	---	---	8.3	7.8	8.0	7.7	7.6	7.6
5	9.1	9.0	9.0	8.5	8.4	8.5	8.3	7.6	7.9	8.1	7.6	7.7
6	9.0	9.0	9.0	8.7	8.4	8.5	7.8	7.1	7.5	8.5	7.5	7.8
7	9.0	8.9	9.0	8.6	8.4	8.5	7.8	7.6	7.7	7.7	7.5	7.5
8	9.1	8.9	9.0	---	---	---	7.7	7.6	7.7	7.5	7.4	7.5
9	9.1	8.9	9.0	---	---	---	7.6	7.5	7.5	7.5	7.4	7.5
10	---	---	---	9.1	7.9	8.2	7.9	7.5	7.7	7.6	7.4	7.5
11	9.2	8.8	9.0	9.0	7.9	8.1	8.0	7.7	7.9	7.5	7.4	7.4
12	9.2	8.9	8.9	---	---	---	8.1	7.8	7.9	8.6	7.4	7.7
13	9.5	8.7	9.0	8.1	8.0	8.0	8.0	7.8	7.9	9.0	7.5	7.8
14	---	---	---	8.0	7.8	7.9	8.1	7.9	8.0	8.0	7.5	7.6
15	9.9	8.6	9.0	7.9	7.7	7.8	8.0	7.9	8.0	9.3	7.5	8.2
16	8.9	8.4	8.6	7.9	7.8	7.8	8.6	8.0	8.1	---	---	---
17	---	---	---	7.6	7.3	7.4	8.1	7.9	8.0	8.1	7.6	7.9
18	8.4	8.2	8.3	7.5	7.3	7.4	8.7	8.0	8.2	7.6	7.5	7.5
19	8.2	8.1	8.1	7.6	7.5	7.5	8.7	7.8	8.2	7.6	7.5	7.6
20	9.0	8.6	8.6	7.7	7.5	7.6	9.3	7.8	8.4	7.6	7.5	7.6
21	8.8	8.5	8.6	7.8	7.6	7.7	8.0	7.7	7.9	7.7	7.6	7.6
22	8.7	8.6	8.6	8.0	7.9	7.9	7.8	7.5	7.7	7.6	7.6	7.6
23	8.9	8.6	8.7	8.1	8.0	8.0	7.5	7.4	7.4	7.7	7.6	7.6
24	8.7	8.5	8.6	8.2	8.0	8.1	7.8	7.4	7.5	8.0	7.7	7.8
25	8.7	8.6	8.6	8.2	8.1	8.2	7.6	7.4	7.5	8.0	7.9	8.0
26	8.7	8.6	8.7	8.2	7.9	8.2	7.8	7.6	7.7	8.0	7.9	8.0
27	---	---	---	8.2	7.9	8.0	7.8	7.7	7.8	8.3	7.9	8.1
28	---	---	---	8.8	7.9	8.2	7.9	7.8	7.8	7.9	7.6	7.8
29	---	---	---	10.0	7.9	8.7	7.8	7.7	7.8	7.8	7.6	7.7
30	---	---	---	8.0	7.8	8.0	7.8	7.8	7.8	8.0	7.7	7.8
31	---	---	---	8.0	7.8	7.9	---	---	---	8.0	7.7	7.8
MONTH	9.9	8.1	8.8	---	---	---	9.3	7.1	7.8	9.3	7.4	7.7

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	19.5	20.0	17.5	16.5	17.0	7.5	7.0	7.0	8.0	7.5	7.5
2	20.0	19.0	19.5	17.0	17.0	17.0	8.0	7.5	7.5	7.0	6.5	7.0
3	21.5	20.0	20.5	18.0	17.0	17.5	8.5	7.0	7.5	6.5	5.5	6.0
4	21.0	20.0	20.5	17.5	17.5	17.5	8.5	7.0	8.0	5.5	5.0	5.0
5	21.5	19.5	20.5	18.5	17.5	18.0	---	---	---	5.0	4.5	4.5
6	21.0	19.5	20.0	18.0	17.5	18.0	---	---	---	4.5	4.0	4.0
7	21.0	20.0	20.5	18.5	17.5	18.0	---	---	---	4.0	3.0	3.5
8	21.0	20.0	20.5	18.5	17.5	18.0	---	---	---	---	---	---
9	22.0	20.5	21.0	18.0	17.5	17.5	---	---	---	---	---	---
10	22.0	20.5	21.0	18.0	17.0	17.5	---	---	---	---	---	---
11	23.0	21.0	22.0	17.5	16.5	17.0	8.5	8.0	8.0	---	---	---
12	22.5	21.5	22.0	16.5	15.0	16.0	8.5	8.0	8.0	---	---	---
13	23.0	22.0	22.5	15.0	14.0	14.5	8.0	7.5	8.0	---	---	---
14	---	---	---	14.5	13.5	14.0	9.0	8.0	8.5	---	---	---
15	---	---	---	14.5	13.5	14.0	8.5	8.0	8.5	---	---	---
16	---	---	---	14.0	13.5	14.0	8.5	8.0	8.0	---	---	---
17	24.5	19.5	21.5	14.0	13.5	13.5	8.0	7.0	7.5	---	---	---
18	20.5	20.0	20.0	14.0	13.0	13.5	7.0	6.5	6.5	---	---	---
19	21.0	19.5	20.0	13.5	13.0	13.0	7.5	5.0	7.0	---	---	---
20	20.5	19.0	20.0	12.5	11.0	12.0	7.0	6.0	7.0	---	---	---
21	20.5	19.5	20.0	10.5	10.0	10.5	7.0	5.5	6.5	---	---	---
22	20.5	19.5	20.0	9.5	9.0	9.5	6.5	5.5	6.0	---	---	---
23	20.0	19.5	20.0	9.0	8.5	9.0	6.5	6.5	6.5	6.0	4.0	4.0
24	20.5	19.5	20.0	8.5	7.5	8.0	6.5	6.0	6.0	4.5	4.0	4.0
25	19.0	18.0	18.5	7.5	7.0	7.0	---	---	---	4.5	4.5	4.5
26	18.5	17.5	18.0	6.5	5.5	6.0	---	---	---	4.5	4.5	4.5
27	18.0	17.5	17.5	6.5	5.5	6.0	6.0	5.5	5.5	5.0	4.5	4.5
28	18.5	17.5	18.0	6.5	6.0	6.5	5.5	5.5	5.5	5.0	4.5	4.5
29	18.5	17.5	18.0	7.5	7.0	7.5	5.5	5.5	5.5	5.0	4.5	5.0
30	17.5	17.0	17.5	7.5	7.0	7.5	8.5	8.0	8.5	5.0	4.5	5.0
31	17.5	16.5	17.0	---	---	---	8.5	8.0	8.0	5.0	4.5	5.0
MONTH	24.5	16.5	20.0	18.5	5.5	13.0	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.0	4.5	5.0	---	---	---	15.0	14.0	14.5	16.0	15.0	15.5
2	5.0	4.5	5.0	---	---	---	15.5	14.0	14.5	16.5	15.5	16.0
3	5.0	4.5	5.0	---	---	---	15.5	14.5	15.0	17.0	16.0	16.5
4	5.5	5.0	5.0	---	---	---	16.5	15.0	15.5	17.5	16.5	17.0
5	5.0	5.0	5.0	15.5	14.0	15.0	16.0	15.5	15.5	17.5	17.0	17.5
6	5.5	5.0	5.0	15.5	14.0	14.5	17.0	15.0	16.0	18.0	17.0	17.5
7	5.5	5.0	5.5	14.5	14.0	14.5	16.5	16.0	16.5	18.0	17.0	17.5
8	6.0	5.0	5.5	14.5	11.5	13.5	17.0	16.0	16.5	18.5	16.5	17.5
9	6.0	5.5	6.0	13.5	11.0	12.5	17.0	16.0	16.5	18.5	17.0	17.5
10	6.5	6.0	6.5	13.5	12.0	13.0	18.0	16.0	16.5	18.5	17.0	18.0
11	7.0	6.5	6.5	13.0	12.5	13.0	18.0	16.5	17.5	19.0	17.0	18.0
12	7.5	7.0	7.0	13.0	12.0	12.5	17.5	17.0	17.5	19.0	17.5	18.0
13	8.0	7.5	8.0	12.5	11.5	12.0	17.0	17.0	17.0	19.0	16.5	18.0
14	8.5	8.0	8.0	12.5	11.5	12.0	17.5	17.0	17.0	19.0	18.0	18.5
15	9.0	8.5	9.0	12.5	12.0	12.0	18.0	17.5	18.0	18.5	17.5	18.0
16	10.0	9.0	9.5	12.0	11.0	11.5	18.0	18.0	18.0	18.0	17.0	17.5
17	10.0	9.5	9.5	11.5	10.5	11.0	18.5	18.0	18.5	17.5	17.0	17.0
18	10.0	9.5	10.0	12.0	11.0	11.5	18.5	18.0	18.5	18.5	17.5	18.0
19	11.0	10.0	10.5	12.5	12.0	12.0	18.5	18.0	18.5	19.0	17.5	18.5
20	11.0	10.5	10.5	13.0	12.5	13.0	18.5	18.0	18.0	20.0	18.5	19.0
21	11.0	10.0	10.5	13.5	12.5	13.0	18.5	17.5	18.0	20.5	19.0	19.5
22	10.5	9.5	10.0	13.5	12.5	13.0	18.5	17.5	18.0	21.0	20.0	20.5
23	11.0	10.0	10.5	14.0	13.0	13.5	19.5	18.5	19.5	21.0	20.0	20.5
24	10.5	10.0	10.5	14.0	13.5	14.0	19.0	18.5	19.0	21.5	20.5	21.0
25	11.0	10.5	10.5	14.5	14.0	14.0	18.0	17.5	17.5	21.5	21.0	21.5
26	11.0	10.5	10.5	15.0	14.5	16.5	17.5	16.5	17.0	21.5	20.5	21.0
27	---	---	---	15.5	14.0	14.5	17.0	16.0	16.5	20.5	20.0	20.0
28	---	---	---	15.0	14.5	14.5	16.5	15.5	16.0	21.5	20.0	20.5
29	---	---	---	15.0	14.0	14.5	16.0	15.0	15.5	22.0	20.5	21.5
30	---	---	---	14.5	14.0	14.0	15.5	15.0	15.0	22.0	21.0	21.5
31	---	---	---	14.5	14.0	14.5	---	---	---	22.0	21.0	21.5
MONTH	11.0	4.5	8.0	15.5	10.5	13.5	19.5	14.0	17.0	22.0	15.0	18.5

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.5	21.5	22.0	26.5	26.0	26.5	31.5	29.5	30.5	25.5	25.0	25.0
2	23.5	22.0	23.0	26.5	26.0	26.5	30.5	28.0	29.5	25.5	25.0	25.0
3	24.0	22.5	23.5	27.5	26.5	27.0	29.0	27.0	28.0	25.0	25.0	25.0
4	23.5	23.0	23.0	27.5	27.0	27.0	29.5	27.5	28.0	25.0	25.0	25.0
5	24.0	23.0	23.5	27.5	26.5	27.0	29.5	27.0	28.5	26.0	25.0	25.0
6	23.5	23.0	23.5	28.0	26.0	27.0	28.5	27.5	28.0	26.0	25.0	25.5
7	24.0	23.0	23.5	28.0	26.5	27.5	28.0	27.0	27.5	26.0	25.0	25.5
8	24.5	23.0	24.0	28.0	26.5	27.5	27.5	27.0	27.0	27.0	25.5	26.0
9	24.5	23.5	24.0	28.0	26.5	26.5	28.5	26.0	27.0	26.0	25.0	26.0
10	25.0	23.5	24.0	28.5	25.5	27.5	29.0	26.5	27.5	26.0	24.0	25.0
11	25.0	23.5	24.0	28.5	25.5	27.0	29.0	27.0	28.0	24.5	24.0	24.5
12	25.0	24.0	24.5	28.5	26.0	27.5	29.5	27.5	28.5	24.5	23.0	24.0
13	25.5	24.5	25.0	29.0	26.0	27.5	29.0	28.0	28.5	24.0	23.5	23.5
14	26.0	25.0	25.5	28.5	26.0	27.5	29.5	27.5	28.0	24.0	23.5	23.5
15	26.0	25.0	25.5	27.0	26.5	26.5	28.5	28.0	28.0	24.5	23.5	24.0
16	25.0	24.0	24.5	27.5	25.5	26.5	29.5	27.5	28.5	24.5	24.0	24.5
17	25.0	24.0	24.5	27.5	25.0	26.0	30.0	28.0	28.5	25.0	24.0	24.5
18	24.5	24.5	24.5	27.5	25.0	26.0	29.5	27.5	28.5	24.5	24.0	24.0
19	24.5	23.5	24.0	27.5	25.0	26.0	28.5	26.5	27.5	24.0	24.0	24.0
20	24.5	23.5	23.5	27.5	25.5	26.0	28.0	26.5	27.0	24.5	24.0	24.5
21	25.0	23.5	24.0	28.5	26.0	26.5	28.0	27.0	27.0	24.5	23.5	24.0
22	24.5	23.5	24.0	28.5	26.5	27.5	27.5	27.0	27.5	24.5	23.5	23.5
23	25.0	24.5	24.5	29.0	26.5	28.0	28.5	26.5	27.5	24.0	23.5	23.5
24	25.5	25.0	25.0	29.0	27.0	28.0	28.5	26.5	27.5	24.5	23.5	24.0
25	25.0	20.0	25.0	29.5	27.5	28.5	29.0	27.0	27.5	24.0	24.0	24.0
26	26.0	25.0	25.5	30.5	28.0	29.0	28.0	26.5	27.0	24.5	24.0	21.0
27	26.5	25.5	26.0	30.0	28.5	29.0	28.0	26.5	27.0	25.0	24.0	24.5
28	27.0	26.0	26.5	30.0	28.5	29.5	27.5	26.0	26.5	25.0	24.0	24.5
29	26.5	26.0	26.0	30.0	28.5	29.0	27.0	26.5	26.5	24.0	23.5	24.0
30	27.5	26.0	26.5	31.0	28.5	29.5	26.5	25.5	26.0	24.0	23.0	21.0
31	---	---	---	31.0	29.0	30.0	25.5	25.0	25.5	---	---	---
MONTH	27.5	20.0	24.5	31.0	25.0	27.5	31.5	25.0	27.5	27.0	23.0	24.5

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.9	7.9	8.4	9.6	9.0	9.3	12.3	11.2	11.5	11.4	11.1	11.2
2	8.0	7.1	7.6	9.7	8.5	9.1	12.3	11.2	11.6	11.6	11.2	11.4
3	10.0	8.9	9.4	9.9	8.2	9.0	11.9	11.4	11.7	11.9	11.6	11.7
4	10.3	9.2	9.8	9.0	8.2	8.4	12.2	11.8	12.0	12.3	12.0	12.1
5	10.8	9.7	10.2	9.0	8.2	8.6	12.1	11.7	11.9	12.6	12.3	12.5
6	10.6	9.9	10.2	9.5	8.5	9.1	---	---	---	12.8	12.6	12.7
7	10.6	9.7	10.2	9.3	8.8	8.9	---	---	---	13.0	12.8	12.9
8	10.6	9.8	10.2	9.2	8.7	9.0	11.8	11.5	11.7	---	---	---
9	10.8	9.9	10.2	9.1	8.4	8.8	11.9	11.5	11.7	---	---	---
10	10.0	9.4	9.6	8.9	8.5	8.7	11.6	11.1	11.4	---	---	---
11	---	---	---	8.9	8.4	8.7	11.4	10.8	11.1	---	---	---
12	---	---	---	9.4	8.4	9.0	11.2	10.5	10.9	---	---	---
13	---	---	---	9.7	9.1	9.3	11.1	10.4	10.9	---	---	---
14	---	---	---	9.9	9.4	9.6	10.7	10.3	10.5	---	---	---
15	---	---	---	10.0	9.2	9.7	10.9	10.4	10.6	---	---	---
16	---	---	---	9.9	9.3	9.6	11.1	10.7	10.9	---	---	---
17	8.7	8.4	8.5	9.8	9.4	9.6	11.8	10.8	11.2	---	---	---
18	9.2	8.4	8.7	9.9	9.5	9.7	11.8	11.4	11.6	---	---	---
19	8.9	8.3	8.6	9.8	9.4	9.7	12.0	11.5	11.8	---	---	---
20	9.2	8.4	8.8	10.1	9.5	9.7	11.7	11.1	11.5	---	---	---
21	9.5	8.9	9.2	10.7	9.9	10.3	11.7	11.5	11.6	---	---	---
22	9.8	9.1	9.4	11.1	10.6	10.9	12.0	11.5	11.6	---	---	---
23	9.4	8.5	9.0	11.1	10.8	11.0	11.6	11.2	11.5	---	---	---
24	8.6	7.8	8.2	11.6	10.9	11.2	11.7	11.3	11.4	---	---	---
25	8.2	7.7	8.1	11.9	11.3	11.5	12.0	11.4	11.7	---	---	---
26	8.7	7.9	8.3	12.2	11.7	12.0	11.6	11.2	11.5	13.7	13.1	13.5
27	8.7	8.2	8.5	12.5	12.2	12.3	11.2	10.9	11.1	13.5	13.0	13.3
28	8.9	8.2	8.7	12.5	11.8	12.2	10.9	10.6	10.8	13.1	12.4	12.8
29	9.2	8.7	8.9	11.1	10.9	12.1	11.1	10.5	10.8	14.1	13.3	13.7
30	9.6	9.0	9.2	12.0	10.9	11.7	11.1	10.6	10.9	14.8	14.2	14.5
31	9.6	8.9	9.2	---	---	---	11.1	10.9	11.0	14.9	14.2	14.6
MONTH	10.8	7.1	9.1	12.5	8.2	10	12.3	10.3	11.3	---	---	---

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.7	14.2	14.5	---	---	---	10.8	10.1	10.4	---	---	---
2	14.5	13.9	14.3	---	---	---	11.2	10.2	10.6	---	---	---
3	14.5	13.7	14.3	---	---	---	11.4	10.4	10.8	---	---	---
4	14.6	14.2	14.4	---	---	---	11.4	10.5	11.0	---	---	---
5	14.4	13.6	13.9	14.2	13.5	13.9	11.6	10.2	10.9	---	---	---
6	13.7	13.0	13.5	---	---	---	---	---	---	---	---	---
7	13.6	13.1	13.4	14.1	13.4	13.7	---	---	---	11.1	9.5	10.7
8	13.7	13.3	13.5	---	---	---	---	---	---	11.2	9.6	10.4
9	13.7	13.4	13.6	13.6	12.7	13.2	10.7	10.1	10.2	11.1	9.2	10.1
10	13.6	12.9	13.4	13.2	12.4	12.8	---	---	---	11.4	9.4	10.3
11	13.9	13.0	13.4	12.6	11.9	12.3	10.4	10.0	10.2	11.9	9.4	10.5
12	13.5	12.9	13.2	12.2	11.6	11.8	10.2	9.4	9.8	10.7	8.7	9.5
13	13.2	12.5	12.9	11.9	11.5	11.7	10.0	9.7	9.9	10.6	8.6	9.3
14	12.6	12.0	12.5	11.6	11.0	11.3	10.4	9.9	10.1	10.0	8.6	9.1
15	12.6	11.7	12.0	11.4	10.9	11.1	10.3	9.9	10.1	9.2	8.5	8.9
16	11.8	10.8	11.4	11.0	10.4	10.7	10.4	9.9	10.1	9.8	8.7	9.1
17	11.1	10.5	10.9	11.0	10.4	10.9	10.0	8.9	9.7	9.0	8.5	8.8
18	10.7	10.2	10.5	11.0	10.0	10.7	9.8	8.6	9.4	10.3	7.8	8.9
19	10.7	10.1	10.4	11.0	10.4	10.8	9.7	8.9	9.3	9.6	7.4	8.5
20	11.0	10.3	10.8	10.7	10.1	10.5	9.4	8.6	8.9	10.2	7.4	8.9
21	11.0	10.4	10.7	10.9	10.2	10.6	9.2	8.5	8.8	9.8	7.9	8.9
22	11.3	10.7	11.0	11.3	10.5	11.0	8.6	8.3	8.5	10.0	8.0	9.1
23	11.5	11.1	11.4	11.4	10.6	11.1	8.8	8.4	8.6	9.5	7.9	8.8
24	11.6	10.8	11.2	11.4	10.8	11.1	8.6	8.3	8.5	9.5	8.1	8.4
25	11.9	11.0	11.4	11.2	10.6	11.0	9.5	8.1	8.9	9.5	8.6	9.0
26	11.8	11.2	11.6	11.1	10.4	10.7	9.8	9.2	9.6	9.3	8.3	8.9
27	---	---	---	10.9	10.3	10.6	9.8	9.5	9.6	9.3	8.6	9.0
28	---	---	---	11.0	10.2	10.6	---	---	---	9.9	8.9	9.5
29	---	---	---	10.9	10.0	10.4	---	---	---	10.2	8.7	9.5
30	---	---	---	10.5	10.1	10.3	---	---	---	10.9	9.4	10.1
31	---	---	---	10.8	10.0	10.3	---	---	---	11.9	10.0	10.9
MONTH	14.7	10.1	12.5	14.2	10.0	11.3	---	---	---	11.9	7.4	9.4

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	10.1	11.2									
2	12.4	10.3	11.4									
3	12.3	10.5	11.4									
4	11.8	10.1	10.9									
5	11.0	9.7	10.3									
6	10.8	9.6	10.2									
7	10.9	9.7	10.3									
8	10.4	9.2	9.9									
9	10.6	8.8	9.7									
10	10.4	8.7	9.6									
11	10.1	8.4	8.7									
12	10.0	8.2	9.2									
13	9.6	8.4	9.1									
14	9.6	8.1	8.9									
15	8.8	8.2	8.4									
16	---	---	---									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	---	---	---									

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	20600	30	1670	134000	330	119000	102000	240	66100
2	16000	20	864	117000	280	88500	75100	160	32400
3	10400	10	281	128000	310	107000	53300	100	14400
4	19600	30	1590	162000	420	184000	44900	80	9700
5	13900	20	751	185000	490	245000	41900	70	7920
6	6700	10	181	188000	500	254000	58600	110	17400
7	20000	30	1620	182000	480	236000	86500	190	44400
8	17400	20	940	189000	500	255000	75200	160	32500
9	13800	20	745	195000	520	274000	69100	140	26100
10	14700	20	794	203000	550	301000	54400	100	14700
11	13500	20	729	209000	560	316000	61000	120	19800
12	5700	10	154	194000	520	272000	72000	150	29200
13	4740	0	0	183000	480	237000	81600	180	39700
14	15500	20	837	171000	450	208000	77200	160	33400
15	41100	70	7770	154000	390	162000	63900	130	22400
16	43000	80	9290	149000	380	153000	53400	100	14400
17	30700	50	4140	150000	380	154000	54400	100	14700
18	19000	30	1540	154000	390	162000	57200	110	17000
19	15100	20	815	154000	390	162000	55900	110	16600
20	15000	20	810	153000	390	161000	57100	110	17000
21	21600	30	1750	154000	390	162000	55900	110	16600
22	20200	30	1640	154000	390	162000	55100	110	16400
23	18300	20	988	154000	390	162000	55400	110	16500
24	17700	20	956	154000	390	162000	59600	120	19300
25	20100	30	1630	154000	390	162000	56300	110	16700
26	10700	10	289	154000	390	162000	47300	90	11500
27	14500	20	783	154000	390	162000	47900	90	11600
28	25000	40	2700	146000	370	146000	55300	100	14900
29	25500	40	2750	135000	330	120000	55000	110	16300
30	42000	70	7940	124000	300	100000	54700	100	14800
31	76800	160	33200	---	---	---	54000	100	14600
TOTAL	648840	---	90147.00	4837000	---	5550500	1891200	---	659020

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	65900	130	23100	68400	140	25900	126000	310	105000
2	55800	110	16600	84100	180	40900	120000	290	94000
3	65600	130	23000	80400	170	36900	118000	280	89200
4	73500	150	29800	70800	150	28700	124000	300	100000
5	64800	130	22700	74200	160	32100	124000	300	100000
6	59700	120	19300	84500	180	41100	114000	270	83100
7	53400	100	14400	91200	200	49200	113000	270	82400
8	53600	100	14500	85200	190	43700	110000	260	77200
9	55100	110	16400	79600	170	36500	96100	220	57100
10	56600	110	16800	77200	160	33400	96000	220	57000
11	62400	120	20200	75500	160	32600	108000	250	72900
12	61400	120	19900	84800	190	43500	119000	280	90000
13	57300	110	17000	84400	180	41000	122000	290	95500
14	53900	100	14600	77500	160	33500	114000	270	83100
15	52000	100	14000	71400	150	28900	111000	260	77900
16	51800	100	14000	60200	120	19500	97000	220	57600
17	54500	100	14700	56300	110	16700	94800	210	53800
18	51900	100	14000	57900	110	17200	78500	170	36000
19	55200	110	16400	59500	120	19300	97800	220	58100
20	48600	90	11800	57800	110	17200	107000	250	72200
21	37800	60	6120	58800	110	17500	105000	240	68000
22	33800	60	5480	90600	200	48900	117000	280	88500
23	33900	60	5490	138000	340	127000	110000	260	77200
24	33600	60	5440	125000	300	101000	109000	260	76500
25	33200	50	4480	104000	240	67400	104000	240	67400
26	33600	60	5440	110000	260	77200	89200	200	48200
27	32900	50	4440	121000	290	94700	89500	200	48300
28	32800	50	4430	131000	320	113000	132000	320	114000
29	32500	50	4390	---	---	---	145000	360	141000
30	29500	50	3980	---	---	---	120000	290	94000
31	43800	80	9460	---	---	---	105000	240	68000
TOTAL	1530400	---	412350	2359300	---	1284500	3415900	---	2433200

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	114000	270	83100	49500	90	12000	87800	190	45000
2	121000	290	94700	51400	100	13900	81800	180	39800
3	127000	310	106000	97300	220	57800	80500	170	36900
4	124000	300	100000	84200	180	40900	75700	160	32700
5	111000	260	77900	61600	120	20000	76500	160	33000
6	88300	200	47700	51600	100	13900	91300	200	49300
7	76000	160	32800	73100	150	29600	103000	240	66700
8	66800	140	25300	68400	140	25900	106000	250	71600
9	83000	180	40300	52400	100	14100	89500	200	48300
10	83800	180	40700	50700	90	12300	75100	160	32400
11	78500	170	36000	51000	100	13800	90000	200	48600
12	72400	150	29300	49500	90	12000	98000	220	58200
13	66200	130	23200	42200	70	7980	103000	240	66700
14	66100	130	23200	44500	80	9610	109000	260	76500
15	64000	130	22500	46100	80	9960	117000	280	88500
16	54900	100	14800	61900	120	20100	122000	290	95500
17	54500	100	14700	59500	120	19300	122000	290	95500
18	47200	90	11500	62500	120	20300	136000	340	125000
19	46800	80	10100	62800	120	20300	142000	350	134000
20	42400	80	9160	62800	120	20300	135000	330	120000
21	42100	70	7960	62900	130	22100	128000	310	107000
22	41000	70	7750	61800	120	20000	124000	300	100000
23	40800	70	7710	56900	110	16900	121000	290	94700
24	41200	70	7790	61400	120	19900	121000	290	94700
25	50700	90	12300	57300	110	17000	116000	280	87700
26	60700	120	19700	67700	140	25600	108000	250	72900
27	52800	100	14300	79200	170	36400	104000	240	67400
28	43800	80	9460	88600	200	47800	95300	220	56600
29	44000	80	9500	95000	210	53900	86600	190	44400
30	49200	90	12000	92300	210	52300	73700	150	29800
31	---	---	---	92200	210	52300	---	---	---
TOTAL	2054200	---	951430	1998300	---	758250	3118800	---	2119400

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	58600	110	17400	16400	20	886	363	0	0
2	43800	80	9460	15500	20	837	18300	20	988
3	42300	70	7990	10500	10	283	20300	30	1640
4	43700	80	9440	18600	30	1510	15700	20	848
5	42900	80	9270	18100	20	977	15600	20	842
6	42700	80	9220	13500	20	729	5880	10	159
7	42500	80	9180	17100	20	923	2460	0	0
8	38900	80	8400	17500	20	945	13200	20	713
9	39000	80	8420	15400	20	832	9190	10	248
10	36800	60	5960	10100	10	273	8880	10	240
11	35400	60	5730	16500	20	891	11700	10	316
12	28600	40	3090	13500	20	729	6510	10	176
13	28500	40	3080	15500	20	837	87	0	0
14	29800	50	4020	15900	20	859	136	0	0
15	26000	---	---	16900	20	913	5690	10	154
16	20600	30	1670	27200	40	2940	19000	20	1030
17	20900	30	1690	14800	20	799	9000	10	243
18	15800	20	853	23000	30	1860	9960	10	269
19	17200	20	929	15300	20	826	17700	20	956
20	20100	30	1630	18800	30	1520	28300	40	3060
21	17900	20	967	18600	30	1510	17200	20	929
22	19600	30	1590	21800	30	1770	24800	40	2680
23	23000	30	1860	17300	20	934	27100	40	2930
24	11800	10	319	9060	10	245	26700	40	2880
25	10900	10	294	15600	20	842	20900	30	1690
26	9060	10	245	14600	20	788	22000	30	1780
27	4050	0	0	11900	10	321	10400	10	281
28	16200	20	875	19200	30	1560	5310	10	143
29	31900	50	4310	22400	30	1810	14000	20	756
30	29700	50	4010	13900	20	751	13300	20	718
31	23100	30	1870	9630	10	260	---	---	---
TOTAL	871310	---	133772.0	504090	---	31160	399666	---	26669.00

07252000 MULBERRY RIVER NEAR MULBERRY, AR

LOCATION.--Lat 35°34'37", long 94°00'55", in SE¼SW¼ sec.31, T.11 N., R.28 W., Franklin County, on left bank 0.6 mi (1.0 km) upstream from Mill Creek, 5.7 mi (9.2 km) north of Mulberry, and at mile 11.3 (18.2 km).

DRAINAGE AREA.--373 mi^2 (966 km^2).

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

REVISED RECORDS.--WSP 1007: 1943. WSP 1211: 1941-42. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 432.75 ft (131.902 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 19, 1940, nonrecording gage at site 500 ft (152 m) downstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--38 years, 547 ft^3/s (15.5 m^3/s), 19.91 in/yr (506 mm/yr), 396,300 acre-ft/yr (489 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,800 ft^3/s (1,609 m^3/s) Nov. 25, 1973, gage height, 21.34 ft (6.504 m); no flow at times in 1939, 1943, 1953-54, 1956, 1964, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1927 reached a stage of 22.0 ft (6.71 m), discharge, about 59,000 ft^3/s (1,700 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,390 ft^3/s (209 m^3/s) Apr. 20, gage height, 8.23 ft (2.509 m); minimum, 1.1 ft^3/s (0.031 m^3/s) Aug. 31, Sept. 1, gage height, 0.54 ft (0.164 m).

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	68	17	302	1300	139	242	564	448	579	173	12	2.3
2	69	17	328	1020	134	235	513	388	474	146	21	4.3
3	65	35	294	807	132	222	472	327	396	139	17	5.7
4	62	176	256	657	129	212	438	273	318	174	14	6.4
5	59	232	270	556	127	264	403	238	266	310	12	5.8
6	55	184	1320	495	122	439	369	229	269	222	12	6.1
7	51	151	1280	455	117	382	339	219	300	173	11	10
8	48	130	852	399	112	458	311	187	235	139	8.7	8.9
9	45	117	652	340	108	2590	282	163	193	116	7.6	7.4
10	41	113	525	304	106	2210	257	153	162	99	6.5	6.2
11	38	107	443	293	106	1610	235	150	138	85	5.6	5.3
12	36	99	383	275	106	1640	219	141	119	74	4.9	5.0
13	32	92	330	251	106	1420	207	195	104	64	4.5	4.7
14	31	89	292	233	106	1170	201	247	92	57	4.2	5.2
15	28	84	343	211	104	1010	191	317	83	51	3.9	4.8
16	26	79	593	193	103	875	181	351	100	48	4.3	4.1
17	25	75	549	184	102	737	178	331	136	43	4.0	4.8
18	24	71	473	171	107	638	182	271	241	42	3.2	5.0
19	22	69	413	163	113	580	220	222	559	38	2.5	4.7
20	22	121	370	163	115	526	3740	191	377	35	2.2	4.3
21	21	388	330	163	144	468	3670	163	264	31	1.8	3.8
22	20	319	296	158	251	420	2140	141	201	26	1.9	3.3
23	19	252	271	150	302	374	1510	125	170	23	1.9	3.1
24	20	209	247	147	302	336	1180	114	335	21	2.0	3.0
25	21	181	244	147	297	324	1600	115	652	18	5.0	2.8
26	22	167	247	152	288	309	1120	109	544	16	3.4	2.6
27	20	155	247	155	279	299	841	315	422	14	2.1	2.5
28	19	138	306	148	263	326	687	1350	327	13	1.8	2.3
29	19	129	3080	145	251	372	613	926	260	13	1.5	1.9
30	19	152	2420	143	---	570	518	649	208	12	1.3	1.8
31	18	---	1710	143	---	627	---	648	---	11	1.2	---
TOTAL	1065	4148	19666	10121	4671	21885	23381	9696	8524	2426	185.0	138.1
MEAN	34.4	138	634	326	161	706	779	313	284	78.3	5.97	4.60
MAX	69	388	3080	1300	302	2590	3740	1350	652	310	21	10
MIN	18	17	244	143	102	212	178	109	83	11	1.2	1.8
CFSM	.09	.37	1.70	.87	.43	1.89	2.09	.84	.76	.21	.02	.01
IN.	.11	.41	1.96	1.01	.47	2.18	2.33	.97	.85	.24	.02	.01
AC-FT	2110	8230	39010	20070	9260	43410	46380	19230	16910	4810	367	274

CAL YR 1975	TOTAL	199878.0	MEAN 548	MAX 5970	MIN 12	CFSM 1.47	IN 19.93	AC-FT 396500			
WTR YR 1976	TOTAL	105906.1	MEAN 289	MAX 3740	MIN 1.2	CFSM .77	IN 10.56	AC-FT 210100			

07252405 OZARK LAKE AT OZARK, AR

LOCATION.--Lat 35°28'21", long 93°48'46", in SW¼ sec.6, T.9 N., R.26 W., Franklin County, at Ozark Dam on Arkansas River, 1.0 mi (1.6 km) southeast of Ozark, and at mile 272.9 (439.1 km).

DRAINAGE AREA.--151,801 mi² (393,165 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

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

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

REMARKS.--Lake is formed by combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began Dec. 1, 1969, and bottom of power pool was first reached Dec. 6, 1969. Lake is used for navigation, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates	373 (113.7 m)	160,000 (197 hm³)
Top of designated power pool	372 (113.4 m)	148,400 (183 hm³)
Bottom of designated power pool	370 (112.8 m)	129,000 (159 hm³)
Crest of gated spillway	327 (99.7 m)	- -
Bottom of lowest outlet	311.5 (94.95 m)	- -

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 162,100 acre-ft (200 hm³) Aug. 16, 1975, elevation, 373.17 ft (113.742 m); minimum since initial filling to bottom of power-pool level, 94,620 acre-ft (117 hm³) June 13, Oct. 28, 1970, elevation, 365.40 ft (111.374 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 157,600 acre-ft (194 hm³) July 1, elevation, 372.79 ft (113.626 m); minimum, 123,400 acre-ft (152 hm³) Jan. 12, elevation, 369.32 ft (112.569 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

369	120,800
370	129,000
373	160,100

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148900	140900	150700	150500	139300	143500	148500	148600	146500	149100	153100	143300
2	151900	140900	156900	144500	143500	143500	147900	149200	145500	147900	154700	137200
3	147900	138700	148400	150600	145000	140100	147900	151900	147100	150700	151900	141200
4	141800	146500	150700	149700	149800	140500	145500	148400	145800	144000	150700	141200
5	142600	146500	149600	146500	150000	139700	143100	142100	149300	138700	152100	141700
6	144500	145800	154300	138200	143700	142700	149000	153300	149300	138700	147400	145500
7	140800	145800	145300	143400	145700	145500	144800	150700	151300	140600	141600	152700
8	145200	136800	145100	144300	153700	147600	146500	151800	151300	145300	141600	144500
9	149100	140300	143100	148000	150500	150500	139300	149000	156200	144000	147900	148100
10	150700	143500	149600	147000	143500	152000	139300	143500	154000	144000	152500	139700
11	145000	145400	143300	139700	143500	143400	140800	146500	152100	146900	152500	140400
12	149900	139400	153300	136800	139700	138400	153800	149600	150400	144500	153200	141600
13	152500	134000	150300	144500	136800	145100	145500	149500	146600	131900	153200	142400
14	144600	134000	149600	143500	140200	150700	138300	152800	151200	152400	153200	149600
15	146500	134800	151900	147900	141100	151200	140400	149800	147600	144700	141900	151600
16	131100	139100	148400	144500	144500	140600	144500	155000	152600	139700	151900	145500
17	134400	146000	142500	147800	143500	136400	151300	155000	150600	133800	151900	148000
18	138400	136800	148500	150300	139700	143500	148500	153100	150400	144500	148400	143700
19	145500	138200	144100	150300	135300	145500	137600	153800	154600	154700	145000	145000
20	141100	147600	147700	144100	137700	150200	134800	151700	153300	149600	136800	149200
21	143500	145000	144700	143500	143900	146500	142600	148600	153300	152100	137700	150700
22	136400	144400	142100	140100	145100	144500	144500	152300	155000	152100	137900	141300
23	135000	145800	149900	140800	143500	140800	144500	153800	155000	150200	144100	135800
24	143500	149600	143000	141100	144700	146500	146200	153800	151300	146500	144000	132900
25	137200	144600	142100	145600	145700	139700	143500	148400	151300	146700	140800	133100
26	137200	144600	147700	149100	149000	145000	153500	151300	153000	153100	148600	133400
27	140200	140800	146700	146700	147600	143900	153500	152500	142300	153100	153700	144600
28	146900	143500	152400	146700	146900	143100	148900	149500	147000	149800	146300	141100
29	147900	143500	150900	146300	150500	138300	148400	148400	148800	154400	146300	139700
30	144800	147900	150000	138700	---	146500	149600	148400	147900	153400	149100	142600
31	147600	---	146800	138700	---	147600	---	153100	---	154100	143400	---
MAX	152500	149600	156900	150600	153700	152000	153800	155000	156200	154700	154700	152700
MIN	131100	134000	142100	136800	135300	136400	134800	142100	142300	131900	136800	132900
(†)	371.92	371.95	371.84	371.00	372.18	371.92	372.10	372.40	371.95	372.49	371.48	371.40
(‡)	+200	+300	-1100	-8100	+11800	-2900	+2000	+3500	-5200	+6200	-10700	-800

CAL YR 1975 MAX 161700 MIN 129000 ‡ -1400
WTR YR 1976 MAX 156900 MIN 131100 ‡ +7300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, AR

LOCATION.--Lat 35°28'21", long 93°48'46", in SW¼ sec.6, T.9 N., R.26 W., Franklin County, at Ozark Dam 1.0 mi 1.6 km) southeast of Ozark, and at mile 272.9 (439.1 km).

DRAINAGE AREA.--151,801 mi² (393,165 km²) of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--August 1962 to August 1963, January 1965 to March 1966, April 1974 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: January 1965 to March 1966.
SUSPENDED SEDIMENT DISCHARGE: October 1974 to September 1975.

COOPERATION.--Chemical records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark. Sediment records furnished by Corps of Engineers, Little Rock, Ark. Sediment records prior to October 1974 available from Corps of Engineers, Little Rock, Ark.

EXTREMES FOR 1975 WATER YEAR.--
SEDIMENT CONCENTRATION: Maximum daily mean, 470 mg/L Nov. 11, minimum daily mean, 0 mg/L Sept. 13-14.
SEDIMENT LOADS: Maximum daily, 327,000 tons (297,000 tonnes) Nov. 11; minimum daily, 0 tons (0 tonnes) Sept. 13-14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)
OCT												
08...	9827	9827	--	8280	754	8.3	16.0	20.0	10	10	9.7	100
NOV												
05...	9827	9827	--	17400	456	7.9	20.0	18.0	15	10	8.2	86
DEC												
01...	9827	9827	--	17000	453	8.1	.0	4.0	30	15	11.3	86
JAN												
06...	9827	9827	--	25600	467	8.1	5.0	5.0	40	35	12.2	96
FEB												
03...	9827	9827	--	8340	564	8.5	4.0	5.0	15	8	14.7	120
MAR												
02...	9827	9827	--	18200	492	8.3	21.0	14.0	10	7	10.2	99
APR												
06...	9827	9827	--	8250	599	8.0	--	--	25	20	10.5	--
MAY												
04...	9827	9827	--	44700	368	8.0	15.0	16.0	60	50	9.8	98
JUN												
01...	9827	9827	42300	--	939	8.1	24.0	23.0	30	35	8.8	100
JUL												
06...	9827	9827	87200	--	883	8.0	22.0	20.0	30	50	6.7	73
AUG												
03...	9827	9827	27400	--	516	8.1	21.0	28.0	30	25	6.4	81
31...	9827	9827	--	8110	560	8.0	21.0	26.0	40	20	6.5	79

DATE	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)
OCT												
08...	3.0	13000	1400	--	--	--	--	--	--	--	--	--
NOV												
05...	.2	9600	1100	--	--	--	--	--	--	--	--	--
DEC												
01...	1.6	10600	1300	73	120	13	36	90	7.0	--	--	130
JAN												
06...	2.2	4400	550	170	--	--	--	--	--	--	--	--
FEB												
03...	3.5	1200	10	<7	130	22	38	94	9.0	59	3.5	120
MAR												
02...	1.8	600	33	--	--	--	--	--	--	--	--	--
APR												
06...	2.6	4000	310	34	--	--	--	--	--	--	--	--
MAY												
04...	2.2	--	290	--	110	31	30	76	7.0	31	3.0	96
JUN												
01...	2.6	5200	1200	--	--	--	--	--	--	--	--	--
JUL												
06...	1.8	3600	340	30	--	--	--	--	--	--	--	--
AUG												
03...	1.7	1700	350	<7	130	32	38	96	7.0	46	3.7	120
31...	1.8	--	--	--	--	--	--	--	--	--	--	--

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)
OCT												
08...	--	--	--	97	170	501	20	521	<.10	.05	--	<10
NOV												
05...	--	--	--	53	67	300	21	321	.23	.10	--	--
DEC												
01...	0	107	1.7	39	71	283	15	298	--	--	<3	--
JAN												
06...	--	--	--	44	67	262	11	273	.46	.08	--	--
FEB												
03...	6	108	.7	49	88	319	12	331	.17	.03	<3	<10
MAR												
02...	--	--	--	44	70	263	17	280	.14	.03	--	--
APR												
06...	--	--	--	51	94	301	41	342	.37	.07	--	--
MAY												
04...	0	79	1.5	25	43	217	56	273	.24	.03	<3	<10
JUN												
01...	--	--	--	68	200	497	46	543	.27	.08	--	--
JUL												
06...	--	--	--	61	180	488	71	559	.20	.13	--	--
AUG												
03...	0	98	1.5	38	68	293	14	307	.25	.08	<3	<10
31...	--	--	--	38	82	338	10	348	.27	.14	--	<10

DATE	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT											
08...	0	<10	410	<10	78	40	--	--	--	--	--
NOV											
05...	--	<10	690	--	69	30	.00	.00	.00	--	--
DEC											
01...	--	<10	700	--	51	<10	--	--	--	.00	<1
JAN											
06...	--	<10	1200	2100	90	20	--	--	--	--	--
FEB											
03...	<3	<10	260	1300	50	20	--	--	--	--	--
MAR											
02...	--	<10	260	20	72	20	--	--	--	--	--
APR											
06...	--	<10	650	60	84	10	--	--	--	--	--
MAY											
04...	<3	<10	2600	20	150	20	--	--	--	--	--
JUN											
01...	--	<10	730	20	80	20	--	--	--	--	--
JUL											
06...	--	<10	2600	490	200	30	--	--	--	--	--
AUG											
03...	<3	20	600	<10	78	<10	--	--	--	--	--
31...	--	<10	920	160	42	10	--	--	--	--	--

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, AR--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	17700	30	1430	120000	220	71300	106000	190	54400
2	16000	30	1300	123000	230	76400	73400	130	25800
3	8780	20	474	119000	220	70700	53200	100	14400
4	16500	30	1340	163000	300	132000	44000	80	9500
5	14800	30	1200	195000	360	190000	37600	70	7110
6	11300	20	610	200000	370	200000	49900	90	12100
7	20900	40	2260	195000	360	190000	83300	150	33700
8	18500	30	1500	200000	370	200000	78900	140	29800
9	15100	30	1220	208000	380	213000	68900	130	24200
10	12800	20	691	234000	420	264000	59400	110	17600
11	16100	30	1300	258000	470	327000	55600	100	15000
12	8970	20	484	236000	430	274000	63300	120	20500
13	8000	20	432	201000	370	201000	71300	130	25000
14	11300	20	610	182000	330	162000	74000	140	28000
15	33000	60	5350	169000	310	141000	62800	120	20300
16	43200	80	9330	150000	270	109000	57300	110	17000
17	32700	60	5300	149000	270	109000	48000	90	11700
18	20800	40	2250	150000	280	113000	55100	100	14900
19	18900	40	2040	150000	270	109000	52700	100	14200
20	16100	30	1300	152000	280	115000	51300	90	12500
21	16700	30	1350	153000	280	116000	53600	100	14500
22	18700	40	2020	153000	280	116000	48300	90	11700
23	18700	40	2020	152000	280	115000	50800	90	12300
24	15500	30	1260	151000	280	114000	52700	100	14200
25	16500	30	1340	151000	280	114000	54700	100	14800
26	17400	30	1410	151000	280	114000	47100	90	11400
27	14100	30	1140	151000	280	114000	43600	80	9420
28	22500	40	2430	149000	270	109000	52100	100	14100
29	32800	60	5310	135000	250	91100	51500	90	12500
30	31800	60	5150	128000	230	79500	52200	100	14100
31	63000	120	20400	---	---	---	52200	100	14100
TOTAL	629150	---	84251	5028000	---	4350000	1804800	---	550830

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	60600	110	18000	74400	140	28100	118000	220	70100
2	61900	110	18400	90900	170	41700	119000	220	70700
3	55600	100	15000	85800	160	37100	116000	210	65800
4	64300	120	20800	80100	150	32400	110000	200	59400
5	66200	120	21400	77700	140	29400	105000	190	53900
6	57800	110	17200	87900	160	38000	106000	190	54400
7	53400	100	14400	94300	170	43300	101000	180	49100
8	51400	90	12500	87100	160	37600	102000	200	55100
9	50400	90	12200	81800	150	33100	90100	160	38900
10	53600	100	14500	78800	140	29800	92200	170	42300
11	57800	110	17200	77400	140	29300	97300	180	47300
12	59300	110	17600	76800	140	29000	108000	200	58300
13	58300	110	17300	80300	150	32500	114000	210	64600
14	51200	90	12400	76800	140	29000	125000	230	77600
15	51700	100	14000	71400	130	25100	115000	210	65200
16	46100	90	11200	61700	110	18300	98200	180	47700
17	53300	100	14400	54100	100	14600	98900	180	48100
18	48700	90	11800	56900	100	15400	92200	170	42300
19	52500	100	14200	58200	110	17300	96500	180	46900
20	49100	90	11900	61200	110	18200	98200	180	47700
21	41200	80	8900	53800	100	14500	105000	190	53900
22	32800	60	5310	73700	140	27900	109000	200	58900
23	32900	60	5330	148000	270	108000	109000	200	58900
24	31600	60	5120	146000	270	106000	104000	190	53400
25	34700	60	5620	115000	210	65200	99700	180	48500
26	34600	60	5610	107000	200	57800	90800	170	41700
27	30000	60	4860	113000	210	64100	89900	160	38800
28	29200	50	3940	120000	220	71300	126000	230	78200
29	31700	60	5140	---	---	---	141000	260	99000
30	26100	50	3520	---	---	---	140000	260	98300
31	50300	90	12200	---	---	---	115000	210	65200
TOTAL	1478300	---	371950	2390100	---	1094000	3332000	---	1800200

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, AR--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	119000	220	70700	50600	90	12300	91000	170	41800
2	128000	230	79500	50300	90	12200	81600	150	33000
3	128000	230	79500	73900	140	27900	81600	150	33000
4	130000	240	84200	90800	70	17200	79900	150	32400
5	120000	220	71300	66200	120	21400	73300	130	25700
6	96300	180	46800	56800	100	15300	89700	160	38800
7	75500	140	28500	65300	120	21200	105000	190	53900
8	66700	120	21600	72700	130	25500	108000	200	58300
9	73000	130	25600	55400	100	15000	94500	170	43400
10	81400	150	33000	50200	90	12200	82600	150	33500
11	78600	140	29700	49400	90	12000	86500	160	37400
12	73300	130	25700	49200	90	12000	93000	170	42700
13	64700	120	21000	45000	80	9720	101000	190	51800
14	63000	120	20400	43900	80	9480	101000	180	49100
15	63900	120	20700	44900	80	9700	115000	210	65200
16	61700	110	18300	50000	90	12200	118000	220	70100
17	47000	90	11400	53900	100	14600	120000	220	71300
18	52500	100	14200	53500	100	14400	128000	230	79500
19	45600	80	9850	56000	100	15100	141000	260	99000
20	45600	80	9850	55500	100	15000	142000	260	99700
21	38800	70	7330	57000	100	15400	127000	230	78900
22	36100	70	6820	58800	110	17500	121000	220	71900
23	37200	70	7030	53300	100	14400	118000	220	70100
24	43300	80	9350	56300	100	15200	118000	220	70100
25	51700	100	14000	52700	100	14200	115000	210	65200
26	59800	110	17800	58700	110	17400	100000	190	51300
27	58400	110	17300	69300	130	24300	101000	190	51800
28	47200	90	11500	76400	140	28900	89500	160	38700
29	45200	80	9760	82300	150	33300	80600	150	32600
30	46200	90	11200	90200	170	41400	69100	130	24300
31	---	---	---	90700	170	41600	---	---	---
TOTAL	2077700	---	833890	1879200	---	568000	3071900	---	1614500

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	56800	100	15300	14700	30	1190	4840	10	131
2	35300	70	6670	17200	30	1390	12600	20	680
3	38400	70	7260	8640	20	467	19600	40	2120
4	37100	70	7010	15600	30	1260	19600	40	2120
5	40100	70	7580	20500	40	2210	14100	30	1140
6	40000	70	7560	12600	20	680	4030	10	109
7	37800	70	7140	14300	30	1160	4560	10	123
8	37700	70	7130	18700	40	2020	10500	20	567
9	36700	70	6940	17800	30	1440	12400	20	670
10	39900	70	7540	8220	20	444	11300	20	610
11	24700	50	3330	16900	30	1370	8250	20	445
12	31300	60	5070	12300	20	664	7120	10	192
13	32200	60	5220	13700	30	1110	75	0	0
14	24300	50	3280	14600	30	1180	75	0	0
15	25700	50	3470	16500	30	1340	2280	10	62
16	21700	40	2340	25500	50	3440	19100	40	2060
17	19100	40	2060	19900	40	2150	15900	30	1290
18	14300	30	1160	20800	40	2250	7500	10	202
19	15700	30	1270	13700	30	1110	18700	40	2020
20	19100	40	2060	20000	40	2160	25200	50	3400
21	18900	40	2040	18000	30	1460	21900	40	2370
22	17800	30	1440	22200	40	2400	23200	40	2510
23	16600	30	1340	14200	30	1150	24400	50	3290
24	10900	20	589	10400	20	562	26100	50	3520
25	14500	30	1170	13900	30	1130	26000	50	3510
26	9180	20	496	15900	30	1290	22700	40	2450
27	3800	10	103	18400	30	1490	16300	30	1320
28	12800	20	691	15800	30	1280	2820	10	76
29	25900	50	3500	14400	30	1170	7480	10	202
30	28600	50	3860	19000	40	2050	11800	20	637
31	26900	50	3630	8120	20	438	---	---	---
TOTAL	813780	---	128249	492480	---	43455	400430	---	37826.00

07257000 BIG PINEY CREEK NEAR DOVER, AR

LOCATION.--Lat 35°32'58", long 93°09'30", in SW¼NE¼ sec.6, T.10 N., R.20 W., Pope County, on left bank 7.2 mi (11.6 km) downstream from Indian Creek, 10.4 mi (16.7 km) north of Dover, and at mile 28.0 (45.1 km).

DRAINAGE AREA.--274 mi^2 (710 km^2).

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1967, published as Piney Creek near Dover.

REVISED RECORDS.--WRD Ark. 1972: 1949(M), 1953(M), 1955(M), 1957(M), 1961(M), 1966(M), 1968-69(M).

GAGE.--Water-stage recorder. Datum of gage is 487.66 ft (148.639 m) above mean sea level.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--26 years, 402 ft^3/s (11.4 m^3/s), 19.92 in/yr (506 mm/yr), 291,200 acre-ft/yr (359 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,600 ft^3/s (2,110 m^3/s) Dec. 10, 1971, gage height, 28.7 ft (8.75 m), from floodmark, from rating curve extended above 45,000 ft^3/s (1,270 m^3/s); no flow at times in 1952-54, 1956, 1964, 1969, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 24, 1949, reached a stage of 25.6 ft (7.80 m), from floodmarks, discharge, about 55,800 ft^3/s (1,580 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,480 ft^3/s (184 m^3/s) June 23, gage height, 9.35 ft (2.850 m); minimum, 0.25 ft^3/s (0.007 m^3/s) Aug. 22, Sept. 25, 26.

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	41	12	317	826	170	259	622	309	360	216	6.2	4.8
2	39	12	252	637	162	241	524	271	340	172	5.1	4.4
3	39	19	209	502	153	229	456	226	267	152	4.2	5.8
4	38	84	178	406	146	240	404	218	212	207	5.8	5.7
5	35	111	179	343	140	321	362	169	181	228	6.2	4.9
6	30	84	1340	308	131	390	324	156	164	169	6.5	8.0
7	27	69	919	287	121	333	300	150	146	133	6.8	8.1
8	25	58	594	263	112	499	265	129	124	101	6.2	7.4
9	23	52	445	262	110	2980	237	110	102	84	5.8	9.8
10	22	48	349	253	112	1930	216	96	87	71	4.2	11
11	20	45	288	186	114	1290	199	96	74	64	2.5	8.4
12	18	45	246	176	114	1140	196	93	63	50	2.3	6.7
13	18	43	212	161	109	913	182	96	52	39	2.3	5.7
14	17	41	188	152	104	748	173	104	42	32	2.1	4.9
15	16	38	218	138	100	652	162	106	35	26	2.1	4.4
16	16	36	461	126	97	547	152	139	42	26	1.9	3.7
17	15	34	358	119	140	456	148	121	128	29	1.4	3.2
18	13	32	296	111	318	404	137	103	96	32	.92	2.6
19	12	33	249	108	274	369	150	90	247	27	.58	2.7
20	12	94	226	114	245	337	926	78	170	24	.43	2.5
21	12	261	205	110	491	306	1500	67	115	22	.34	2.0
22	12	185	181	105	673	254	972	64	84	18	.51	1.5
23	12	145	166	101	538	237	721	51	1140	18	2.7	1.0
24	13	120	155	103	467	219	694	51	3040	16	3.7	.55
25	14	104	161	139	416	219	1260	94	1630	14	3.2	.50
26	14	97	166	211	373	206	841	94	1040	12	2.1	.51
27	14	93	161	207	327	267	622	474	685	11	1.6	.59
28	16	84	172	194	300	291	487	1420	475	8.8	2.5	.55
29	15	78	1940	190	277	498	418	787	359	7.6	6.0	.61
30	14	133	1700	185	---	901	356	517	277	6.8	4.9	.64
31	13	---	1120	178	---	743	---	422	---	6.8	3.8	---
TOTAL	625	2290	13651	7201	6836	18419	14006	6901	11777	2023.0	104.88	123.15
MEAN	20.2	76.3	440	232	236	594	467	223	393	65.3	3.38	4.11
MAX	41	261	1940	826	673	2980	1500	1420	3040	228	6.8	11
MIN	12	12	155	101	97	206	137	51	35	6.8	.34	.50
CFSM	.07	.28	1.61	.85	.86	2.17	1.70	.81	1.43	.24	.01	.02
IN.	.08	.31	1.85	.98	.93	2.50	1.90	.94	1.60	.27	.01	.02
AC-FT	1240	4540	27080	14280	13560	36530	27780	13690	23360	4010	208	244

CAL YR 1975 TOTAL 160499.70 MEAN 440 MAX 6190 MIN 4.2 CFSM 1.61 IN 21.79 AC-FT 318400
WTR YR 1976 TOTAL 83957.03 MEAN 229 MAX 3040 MIN .34 CFSM .84 IN 11.40 AC-FT 166500

07257995 LAKE DARDANELLE AT DARDANELLE, AR

LOCATION.--Lat 35°14'50", long 93°10'23", in sec.24, T.7 N., R.21 W., Pope County, at dam on Arkansas River, 1.5 mi (2.4 km) northwest of courthouse in Dardanelle, and at mile 221.6 (356.6 km).

DRAINAGE AREA.--153,666 mi^2 (397,995 km^2) of which 22,241 mi^2 (57,604 km^2) is probably noncontributing.

PERIOD OF RECORD.--October 1964 to current year. Prior to October 1969, published as Dardanelle Reservoir at Dardanelle.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

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

REMARKS.--Lake is formed by combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began Oct. 1, 1964, and bottom of power pool was first reached Jan. 21, 1965. Lake is used for navigation, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates	339 (103.3 m)	521,400 (643 hm^3)
Top of designated power pool	338 (103.0 m)	486,200 (599 hm^3)
Bottom of designated power pool	336 (102.4 m)	420,900 (519 hm^3)
Crest of gated spillway	300 (91.4 m)	8,200 (10.1 hm^3)
Bottom of lowest outlet	288 (87.8 m)	10 (12,330 m^3)

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 502,000 acre-ft (619 hm^3) June 5, 1974, elevation, 338.45 ft (103.160 m); minimum since initial filling to bottom of power pool, 415,200 acre-ft (512 hm^3) Oct. 13, 1969, elevation, 335.81 ft (102.355 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 502,000 acre-ft (619 hm^3) July 9, elevation, 338.45 ft (103.160 m); minimum, 422,500 acre-ft (521 hm^3) Nov. 25, elevation, 336.05 ft (102.428 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

336	420.9
337	452.7
339	521.4

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	454400	444400	444700	471800	467100	488000	489000	486600	482900	466100	472800	466100
2	457700	444400	451100	468400	465100	486200	489000	489400	484500	462800	470800	457700
3	463400	451100	472800	466800	449500	474800	485500	489400	477800	454400	483500	462800
4	466100	454400	481200	468100	444700	468800	470100	489400	478800	447900	466100	457700
5	458400	467800	488300	457700	453400	464800	472100	491500	471800	464800	466100	457100
6	458400	480800	484500	459400	455400	467100	472100	489700	478800	469500	461100	454400
7	456700	486200	484500	454400	460100	467100	459400	496800	467100	488700	466100	445700
8	454400	479800	462800	443200	460100	479800	450100	488300	469800	499900	461100	458100
9	451100	479800	464100	456700	463400	496400	449500	480500	474100	495000	440000	462800
10	456400	474100	462800	471100	466800	491500	460400	476800	477800	490800	435500	471500
11	471100	478800	472800	463900	471100	488000	461700	476800	464400	490800	442500	467800
12	475500	468400	467400	447900	481200	489700	444700	486200	477200	493200	440300	458700
13	472100	450100	479500	467100	484500	481500	452700	489700	474500	484500	440300	452700
14	484500	442500	488000	467100	483900	458100	455400	488300	453400	477200	448900	456100
15	480200	440000	478200	467100	483900	450500	455400	482900	457700	483900	467400	457700
16	476800	440000	472800	455700	486200	452400	448200	481800	460700	493200	450500	460100
17	466100	440000	477200	452100	486200	461100	454400	487600	456700	486200	447900	465400
18	460700	451100	468100	452100	477200	478200	466400	488700	464400	480500	459400	483500
19	458100	445100	463800	461700	462800	488700	470100	488700	479500	482900	469500	479800
20	461400	442500	459400	472800	452700	470500	448600	481500	476200	497800	479500	481800
21	455000	432000	480200	472800	461100	454400	455400	473800	474100	480500	479500	471500
22	452700	447300	459700	476200	460100	452700	495400	466100	469500	470800	472800	477800
23	459400	447300	440900	474500	465400	474500	495400	459400	462800	474500	462800	476200
24	456700	441900	450500	472100	469500	469500	490400	464800	470800	489700	463100	469800
25	448200	431400	466100	478500	472100	459400	486900	479200	479500	486200	463100	470500
26	442500	439000	470100	477500	476200	459400	492900	450100	472500	472800	463800	467400
27	435200	449500	485500	480200	482900	454400	494300	454700	477800	472800	458400	470100
28	435200	439000	492500	470100	484900	456100	487300	472100	473500	472800	480200	476800
29	435200	450100	483500	470100	484900	465800	481500	474100	466100	466800	474800	476200
30	441900	450100	472800	470100	---	477800	491500	486200	471100	459400	468400	470800
31	439300	---	465400	467100	---	488300	---	482900	---	459400	472800	---
MAX	484500	486200	492500	483900	486200	496400	495400	496800	484500	499900	483500	483500
MIN	435200	431400	440900	443200	444700	450500	444700	450100	453400	447900	435500	445700
(†)	336.58	336.92	337.38	337.43	337.96	338.06	338.15	337.90	337.55	337.20	337.60	337.54
(‡)	-7000	+10800	+15300	+1700	+17800	-3400	+3200	-8600	-11800	-11700	+13400	-2000

CAL YR 1975 MAX 498200 MIN 424700 ‡-27100
WTR YR 1976 MAX 499900 MIN 431400 ‡ +5400

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07258000 ARKANSAS RIVER AT DARDANELLE, AR

LOCATION.--Lat 35°13'34", long 93°08'58", in SW¼ sec.29, T.7 N., R.20 W., Pope County, near left bank on upstream side of bridge on State Highway 7 at Dardanelle, 1.0 mi (1.6 km) upstream from Whig Creek, 2.0 mi (3.2 km) downstream from Dardanelle Dam, 4.7 mi (7.6 km) downstream from Illinois Bayou, and at mile 219.5 (353.2 km).

DRAINAGE AREA.--153,670 mi² (398,010 km²) of which 22,241 mi² (57,604 km²) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1937 to current year. Gage-height records collected at same site since 1886 are contained in reports of National Weather Service.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder at bridge, and totalizing flowmeters on each turbine in Dardanelle Dam 2.0 mi (3.2 km) upstream. Datum of gage is 280.16 ft (85.393 m) above mean sea level. Prior to Jan. 11, 1939, nonrecording gage at same site at datum 10.0 ft (3.048 m) higher. Jan. 11, 1939, to Dec. 10, 1970, water-stage recorder at same site at datum 10.0 ft (3.048 m) higher.

REMARKS.--Records good. Flow regulated by many locks, dams, and reservoirs upstream. Daily discharge below about 50,000 ft³/s (1,420 m³/s) determined from flow through turbines.

AVERAGE DISCHARGE.--39 years, 36,420 ft³/s (1,030 m³/s), 26,390,000 acre-ft/yr (32,500 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 683,000 ft³/s (19,300 m³/s) May 13, 14, 1943; maximum gage height, 43.60 ft (13.289 m), in gage well, 44.1 ft (13.44 m) from outside gage, May 25, 1943, present datum; minimum daily discharge, 43 ft³/s (1.22 m³/s) Dec. 6, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 19, 1927, reached a stage of 43.0 ft (13.11 m), present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 141,000 ft³/s (3,990 m³/s) Apr. 23, gage height, 24.91 ft (7.593 m); minimum daily, 50 ft³/s (1.42 m³/s) at times.

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	11700	2600	13200	19000	50	8260	17600	62500	44800	18500	10800	10700
2	8980	127	9000	24800	8750	7110	21400	51900	49000	22000	19900	4520
3	8350	5790	4960	17200	10800	15600	17800	48100	47300	24600	21700	3870
4	5080	9910	10600	14600	8640	14400	13000	43700	40200	41900	25300	3190
5	7480	10800	14100	25500	3680	14100	9400	39100	40500	59900	18200	320
6	10300	10500	32700	22600	11400	7150	11700	38500	38300	80000	25100	1610
7	9380	13700	36200	23200	3390	50	16200	39300	30700	85100	4490	7780
8	7300	10300	35100	29900	50	13600	15400	47000	30700	86100	2370	8510
9	12200	3610	20500	25800	7390	45300	16000	43000	27400	88600	14400	10500
10	9370	7170	14400	23800	7760	53800	3290	39700	32100	89700	12600	3060
11	3920	7850	12200	20900	7450	45300	80	38300	32200	87900	9670	1650
12	5260	16700	14300	28700	6240	40100	14800	35000	15400	90600	13400	4570
13	15800	15900	1510	2870	8520	39000	12500	48600	8070	89300	15400	5010
14	14000	14400	1920	7560	540	31700	13800	65100	19600	88300	7140	6320
15	16400	3400	31100	7370	50	32200	14700	60700	17000	88300	3300	9420
16	16000	94	22900	13200	4920	28600	12300	49000	16100	88300	14500	13100
17	11400	4430	24400	4680	10000	22700	50	40400	17100	88500	15400	8390
18	3780	8420	23900	50	19700	13500	5590	40900	17800	71800	14700	5140
19	1610	11600	23800	7750	15600	22600	25500	46200	7100	56100	14000	4270
20	6150	13900	14700	10900	12200	29600	61500	45400	10300	52400	9800	9070
21	12600	20300	50	8700	6060	29800	129000	40600	13900	55000	1430	15200
22	11800	50	18800	5830	550	25000	133000	34800	20000	41900	1480	8330
23	8540	50	17700	6170	9450	16900	133000	37800	17600	41900	13300	5340
24	10600	13600	2750	2610	18600	19700	111000	37300	22100	41200	13200	5840
25	10000	20400	760	1130	6830	19100	73100	32700	32600	41000	11900	160
26	6160	19000	1410	6610	5030	20000	59400	34800	40800	40800	13600	1880
27	8190	50	2610	7800	5630	3410	62500	37400	37500	34900	17800	4400
28	6350	14100	13200	10700	420	2450	52200	30800	33400	35900	120	5330
29	9260	50	38600	9060	1230	17400	48600	38900	29500	31100	2570	8980
30	7530	1300	35500	7390	---	16200	49900	42100	19100	28200	9100	10700
31	9640	---	21200	3850	---	15000	---	44300	---	21600	8130	---
TOTAL	285130	260101	514070	400230	200930	669630	1154310	1333900	808170	1811400	364800	187160
MEAN	9198	8670	16580	12910	6929	21600	38480	43030	26940	58430	11770	6239
MAX	16400	20400	38600	29900	19700	53800	133000	65100	49000	90600	25300	15200
MIN	1610	50	50	50	50	50	50	30800	7100	18500	120	160
AC-FT	565600	515900	1020000	793900	398500	1328000	2290000	2646000	1603000	3593000	723600	371200

CAL YR 1975 TOTAL 17869919 MEAN 48960 MAX 175000 MIN 50 AC-FT 35440000
WTR YR 1976 TOTAL 7989831 MEAN 21830 MAX 133000 MIN 50 AC-FT 15850000

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-61, August 1961 to August 1963, July 1971 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1948 to September 1961.
WATER TEMPERATURES: October 1948 to September 1961, July 1971 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1967 to September 1975.

COOPERATION.--Sediment records furnished by Corps of Engineers, Little Rock, Ark. Chemical records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 5,310 micromhos Apr. 4, 1954; minimum daily, 107 micromhos Mar. 21, 1955.
WATER TEMPERATURES: Maximum daily, 34.0°C Aug. 17, 1952; minimum daily, 0.0°C on several days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,640 mg/L Apr. 26, 1970; minimum daily mean, 0 mg/L on many days during 1973-75.
SEDIMENT LOADS: Maximum daily, 1,120,000 tons (1,016,000 tonnes) Apr. 26, 1970; minimum daily, 0 tons (0 tonnes) on many days during 1973-75.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily, 30.0°C July 31, Aug. 1; minimum daily, 3.5°C Jan. 10-13.
SEDIMENT CONCENTRATIONS: (1975 water year) Maximum daily mean, 140 mg/L Nov. 11-12; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: (1975 water year) Maximum daily, 90,300 tons (81,000 tonnes) Nov. 11; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)
OCT										
08...	9827	9827	--	8160	536	8.0	25.0	21.0	25	15
29...	1028	1028	--	--	680	--	--	19.5	--	--
NOV										
05...	9827	9827	--	354	569	7.8	24.0	20.0	15	15
DEC										
01...	9827	9827	13200	--	427	--	8.0	--	30	20
08...	1028	1028	--	--	495	--	--	9.0	--	--
JAN										
06...	9827	9827	22600	--	519	8.1	8.0	6.0	30	20
21...	1028	1028	--	--	455	--	--	4.5	--	--
FEB										
03...	9827	9827	10800	--	413	8.1	11.0	8.0	20	10
MAR										
02...	9827	9827	7110	--	443	8.2	24.0	18.0	10	7
04...	1028	1028	--	24000	--	--	--	13.5	--	--
23...	1028	1028	--	--	535	--	--	15.0	--	--
APR										
06...	9827	9827	11700	--	725	8.1	15.0	10.0	20	15
MAY										
04...	9827	9827	--	45200	337	7.9	20.0	19.0	70	60
17...	1028	1028	--	--	640	--	--	20.5	--	--
JUN										
01...	9827	9827	--	44700	977	8.0	27.0	27.0	30	60
JUL										
06...	9827	9827	80000	--	976	8.0	30.0	22.0	20	35
07...	1028	1028	--	--	900	--	--	25.5	--	--
21...	1028	1028	--	55100	--	--	33.0	28.0	--	--
AUG										
03...	9827	9827	21700	--	515	8.0	27.0	28.0	30	25
17...	1028	1028	--	--	481	--	--	27.5	--	--
31...	9827	9827	8130	--	459	8.0	26.0	26.0	40	15

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)
OCT										
08...	7.6	84	1.8	100	33	--	--	--	--	--
29...	7.8	88	--	--	--	--	--	--	--	--
NOV										
05...	8.9	97	2.6	380	280	--	--	--	--	--
DEC										
01...	12.0	103	2.8	13	42	90	120	13	37	92
08...	10.5	94	--	--	--	--	--	--	--	--
JAN										
06...	12.1	97	3.0	130	33	25	--	--	--	--
21...	13.0	104	--	--	--	--	--	--	--	--
FEB										
03...	12.1	102	3.2	100	100	220	100	18	30	74
MAR										
02...	9.6	101	2.3	90	25	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
23...	9.6	98	--	--	--	--	--	--	--	--
APR										
06...	10.1	89	2.8	50	7	80	--	--	--	--
MAY										
04...	10.2	109	3.3	--	370	--	100	26	29	72
17...	8.1	92	--	--	--	--	--	--	--	--
JUN										
01...	8.9	110	3.6	--	--	--	--	--	--	--
JUL										
06...	9.7	110	2.5	--	--	--	--	--	--	--
07...	8.8	110	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	7.1	90	2.7	940	570	53	130	40	38	96
17...	--	--	--	--	--	--	--	--	--	--
31...	4.8	59	1.4	120	400	--	--	--	--	--

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)
OCT										
08...	--	--	--	--	--	--	--	72	94	354
29...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	--	--	--	--	--	--	--	74	94	364
DEC										
01...	7.0	44	3.8	130	0	107	--	40	62	292
08...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	--	--	--	--	--	--	--	51	78	272
21...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	6.0	42	3.2	100	0	82	1.3	34	60	229
MAR										
02...	--	--	--	--	--	--	--	38	63	242
04...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	65	130	381
MAY										
04...	7.0	27	3.7	90	0	74	1.8	23	36	199
17...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	--	--	--	--	--	--	--	68	210	525
JUL										
06...	--	--	--	--	--	--	--	61	200	548
07...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	8.0	44	3.6	110	0	90	1.8	37	66	293
17...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	38	64	300

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NON-FILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)
OCT										
08...	22	376	.11	.01	--	<10	0	<10	710	20
29...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	23	387	.20	.09	--	--	--	<10	660	--
DEC										
01...	12	304	.25	.04	<3	<10	0	<10	1100	10
08...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	24	296	.37	.06	--	--	--	<10	640	10
21...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	5	234	.34	.02	<3	<10	<3	<10	550	<10
MAR										
02...	14	256	<.10	.03	--	--	--	<10	330	<10
04...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	376	.13	.07	--	--	--	<10	520	<10
MAY										
04...	49	248	.58	.05	<3	<10	<3	<10	2800	10
17...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	43	568	.32	<.01	--	--	--	<10	1200	<10
JUL										
06...	13	561	.18	.15	--	--	--	<10	1600	<10
07...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	14	307	.31	.05	<3	<10	<3	10	610	<10
17...	--	--	--	--	--	--	--	--	--	--
31...	13	313	.13	.10	--	<10	--	10	630	<10

DATE	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT										
08...	100	20	.00	.00	.00	.00	.00	.00	.00	<1
29...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	62	10	--	--	--	--	--	--	--	--
DEC										
01...	72	<10	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	64	<10	.00	.00	.00	.00	.00	.00	.00	<1
21...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	46	<10	--	--	--	--	--	--	--	--
MAR										
02...	45	<10	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR										
06...	72	<10	--	--	--	--	--	--	--	--
MAY										
04...	130	20	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	99	<10	.00	.00	.00	.00	.00	.00	.00	<1
JUL										
06...	140	80	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	71	<10	.00	.00	.00	.00	.00	.00	.00	<1
17...	--	--	--	--	--	--	--	--	--	--
31...	48	<10	.00	.00	.00	.00	.00	.00	.00	<1

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	20.5	18.5	18.5	9.0	8.5	6.0	6.0	7.5	7.5	13.0	12.5
2	21.0	20.0	18.5	18.5	8.5	8.5	6.0	6.0	7.5	7.5	12.5	12.0
3	20.5	20.5	18.5	18.5	8.5	8.5	6.0	6.0	7.5	7.5	12.5	12.0
4	20.5	20.0	18.5	18.5	8.5	8.5	6.0	6.0	7.5	7.5	13.5	12.5
5	20.5	20.0	18.5	18.5	8.5	8.5	6.0	5.5	7.5	7.5	14.5	13.0
6	20.0	20.0	18.5	18.5	8.5	8.5	5.5	5.0	7.5	7.5	15.0	14.5
7	20.0	20.0	18.5	18.5	9.5	9.0	5.0	5.0	7.5	7.5	15.0	15.0
8	20.0	20.0	18.5	18.5	9.0	9.0	5.0	4.0	7.5	7.5	15.0	14.5
9	20.0	20.0	18.5	18.5	9.0	9.0	4.0	4.0	8.0	7.5	14.5	14.0
10	20.0	20.0	18.5	18.5	9.0	9.0	4.0	3.5	7.5	7.5	14.5	14.0
11	20.0	20.0	18.5	18.0	9.0	9.0	3.5	3.5	8.5	7.5	14.0	13.5
12	20.0	20.0	18.5	18.0	9.0	9.0	3.5	3.5	8.0	8.0	13.5	13.5
13	20.5	20.5	18.0	17.0	9.0	9.0	4.0	3.5	8.0	7.5	13.5	13.5
14	20.5	20.5	17.0	16.0	9.5	9.0	4.0	4.0	8.0	7.5	13.5	13.5
15	21.5	20.5	16.0	15.5	10.0	9.0	4.0	4.0	9.0	8.0	13.5	13.0
16	22.5	21.5	15.5	15.5	10.0	10.0	4.5	4.0	9.0	8.5	13.5	13.0
17	22.5	22.0	15.5	15.0	10.0	9.5	4.5	4.5	9.0	8.5	13.0	13.0
18	22.0	20.5	15.0	15.0	9.5	9.0	4.5	4.5	11.0	9.0	12.5	12.5
19	21.5	21.0	15.0	15.0	9.0	8.5	4.5	4.5	11.5	11.0	12.5	12.5
20	21.5	21.0	15.0	14.5	8.5	8.5	4.5	4.5	11.5	11.0	13.0	12.5
21	21.5	21.0	14.5	13.5	8.5	8.5	4.5	4.5	11.5	11.0	14.0	13.0
22	21.0	21.0	13.5	13.0	8.5	7.5	5.0	4.5	11.5	11.0	14.0	13.5
23	21.0	21.0	13.0	12.5	7.5	7.0	5.0	5.0	11.5	11.0	15.0	13.5
24	21.0	21.0	12.5	12.0	7.0	7.0	5.5	5.0	12.0	11.5	14.5	14.5
25	21.0	20.5	12.0	11.5	7.0	7.0	6.5	5.5	12.0	11.5	14.5	14.5
26	20.5	20.5	11.5	11.0	7.0	6.5	6.5	6.0	12.0	12.0	14.5	14.5
27	20.5	20.0	11.0	10.0	7.0	6.5	6.0	6.0	12.0	12.0	15.0	14.5
28	20.0	19.5	10.0	8.5	7.0	6.5	6.0	6.0	12.5	12.0	15.0	15.0
29	19.5	19.5	8.5	8.5	6.5	6.5	6.5	6.0	13.0	12.5	15.0	15.0
30	19.5	19.0	9.5	8.5	6.5	6.5	7.0	6.5	---	---	15.0	15.0
31	19.0	18.5	---	---	6.0	6.0	7.5	7.0	---	---	15.0	14.5
MONTH	22.5	18.5	18.5	8.5	10.0	6.0	7.5	3.5	13.0	7.5	15.0	12.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.5	16.5	16.0	22.0	21.0	26.0	25.5	30.0	29.5	26.5	26.5
2	15.0	15.0	17.0	16.5	22.5	22.0	25.5	25.0	29.5	29.0	26.5	26.5
3	14.5	14.5	17.0	17.0	23.0	22.5	25.5	25.0	29.0	28.5	26.5	26.0
4	15.5	14.5	17.0	17.0	23.0	23.0	25.5	25.5	29.0	28.5	26.5	26.0
5	16.0	16.0	17.0	17.0	23.0	23.0	25.5	25.5	28.5	28.0	26.5	26.0
6	15.5	15.0	17.5	17.0	23.0	23.0	26.0	25.5	28.0	28.0	26.5	25.5
7	15.5	15.0	17.5	17.5	23.0	23.0	26.5	25.5	28.5	28.0	26.5	25.0
8	15.5	15.5	18.0	17.5	23.0	23.0	26.5	25.5	28.5	28.5	25.0	25.0
9	16.0	15.5	18.0	18.0	23.5	23.0	26.5	26.0	28.5	28.0	25.0	25.0
10	17.0	16.0	18.5	18.0	23.5	23.0	27.5	26.5	28.5	27.5	25.0	24.5
11	17.5	16.5	19.0	18.5	24.0	23.5	27.5	27.0	28.0	27.5	25.0	24.5
12	17.5	17.0	18.5	18.5	24.0	24.0	27.5	27.0	27.5	27.5	24.5	24.5
13	17.0	17.0	19.0	18.5	24.0	24.0	27.5	27.0	27.5	27.5	24.5	24.0
14	17.5	17.0	19.0	19.0	24.5	24.0	27.5	27.5	28.5	27.5	24.0	24.0
15	17.5	17.5	19.5	19.0	25.0	24.5	27.5	27.5	28.0	27.5	24.0	24.0
16	18.0	17.5	19.0	19.0	26.0	25.0	27.5	27.0	27.5	27.5	23.5	23.5
17	18.0	18.0	19.0	18.5	26.0	25.5	27.5	26.5	27.5	27.5	23.5	23.5
18	18.5	18.0	19.0	18.5	25.0	25.0	27.0	26.5	27.5	27.5	23.5	23.5
19	18.5	18.5	19.0	18.5	25.5	24.5	26.5	26.5	27.5	27.5	23.5	23.5
20	19.0	18.5	19.0	19.0	25.5	25.0	26.5	26.5	28.0	27.5	24.0	23.5
21	19.0	19.0	19.5	19.0	25.5	25.0	27.0	26.5	28.0	27.5	24.0	24.0
22	19.0	18.5	20.5	19.5	25.0	24.5	27.0	27.0	29.0	27.5	24.0	23.5
23	19.0	18.5	20.5	20.5	24.5	24.5	27.5	27.0	27.5	27.0	23.5	23.0
24	19.0	19.0	20.5	20.5	24.5	25.0	28.0	27.5	27.5	27.0	23.0	23.0
25	19.0	18.5	21.0	21.0	24.5	24.5	28.0	28.0	27.0	27.0	23.0	23.0
26	18.5	18.0	21.0	21.0	24.5	24.5	28.5	28.0	27.0	27.0	23.0	23.0
27	18.0	17.5	21.0	20.5	24.0	24.0	29.0	29.0	27.0	27.0	23.0	23.0
28	17.5	17.0	20.0	20.0	25.0	24.0	29.0	29.0	27.5	27.0	23.0	22.5
29	17.0	16.5	20.0	19.5	25.5	25.0	29.5	29.0	27.5	27.0	22.5	22.5
30	16.5	16.5	20.0	19.5	26.0	25.5	29.5	29.5	27.0	26.5	22.5	22.0
31	---	---	21.0	20.0	---	---	30.0	29.0	27.0	26.5	---	---
MONTH	19.0	14.5	21.0	16.0	26.0	21.0	30.0	25.0	30.0	26.5	26.5	22.0

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11400	10	308	86000	50	11600	147000	90	35700
2	22800	10	616	122000	70	23100	109000	70	20600
3	14600	10	394	129000	80	27900	65000	40	7020
4	11000	10	297	153000	90	37200	47300	30	3830
5	15200	10	410	177000	110	52600	46900	30	3800
6	11700	10	316	180000	110	53500	47000	30	3810
7	14500	10	391	190000	110	56400	76700	50	10400
8	30700	20	1660	193000	120	62500	95600	60	15500
9	30500	20	1650	193000	120	62500	84300	50	11400
10	18200	10	491	210000	130	73700	71200	40	7690
11	11200	10	302	239000	140	90300	61700	40	6660
12	7910	10	214	230000	140	86900	63000	40	6800
13	4300	0	0	209000	120	67700	75200	50	10200
14	11000	10	297	180000	110	53500	78800	50	10600
15	28700	20	1550	167000	100	45100	76700	50	10400
16	30100	20	1630	164000	100	44400	65700	40	7100
17	30500	20	1650	153000	90	37200	49000	30	3970
18	33400	20	1800	153000	90	37200	56400	40	6090
19	20000	10	540	153000	90	37200	58900	40	6360
20	10600	10	286	153000	90	37200	56800	40	6130
21	19900	10	537	153000	90	37200	56800	40	6130
22	18200	10	491	153000	90	37200	56800	40	6130
23	17500	10	472	155000	90	37700	52700	30	4270
24	15600	10	421	171000	100	46200	55100	30	4460
25	10800	10	292	161000	100	43500	60600	40	6540
26	22600	10	610	157000	90	38200	54700	30	4430
27	10800	10	292	161000	100	43500	51900	30	4200
28	20300	10	548	157000	90	38200	50000	30	4050
29	38400	20	2070	149000	90	36200	51000	30	4130
30	44600	30	3610	148000	90	36000	52800	30	4280
31	49100	30	3980	---	---	---	54400	30	4410
TOTAL	636110	---	28125.00	4999000	---	1391600	2029000	---	247090

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	57100	40	6170	82000	50	11100	126000	80	27200
2	62800	40	6780	99100	60	16100	123000	70	23200
3	68200	40	7370	103000	60	16700	114000	70	21500
4	62200	40	6720	98200	60	15900	111000	70	21000
5	67700	40	7310	90700	60	14700	115000	70	21700
6	66600	40	7190	89700	60	14500	113000	70	21400
7	62400	40	6740	91400	60	14800	109000	70	20600
8	53300	30	4320	100000	60	16200	108000	70	20400
9	52500	30	4250	92300	60	15000	107000	70	20200
10	73300	50	9900	85700	50	11600	108000	70	20400
11	70300	40	7590	85900	50	11600	102000	60	16500
12	68200	40	7370	87300	50	11800	111000	70	21000
13	65400	40	7060	79800	50	10800	120000	70	22700
14	64300	40	6940	83800	50	11300	129000	80	27900
15	54700	30	4430	81700	50	11000	120000	70	22700
16	50900	30	4120	78200	50	10600	113000	70	21400
17	50900	30	4120	75800	50	10200	99000	60	16000
18	58000	40	6260	63100	40	6810	107000	70	20200
19	54400	30	4410	55100	30	4460	119000	70	22500
20	55200	30	4470	49800	30	4030	113000	70	21400
21	47800	30	3870	50900	30	4120	109000	70	20600
22	44300	30	3590	61600	40	6650	108000	70	20400
23	30400	20	1640	139000	80	30000	114000	70	21500
24	31500	20	1700	152000	90	36900	113000	70	21400
25	32800	20	1770	136000	80	29400	106000	60	17200
26	38600	20	2080	113000	70	21400	96800	60	15700
27	33600	20	1810	113000	70	21400	103000	60	16700
28	30600	20	1650	119000	70	22500	172000	100	46400
29	32000	20	1730	---	---	---	175000	100	47300
30	33000	20	1780	---	---	---	161000	100	43500
31	46600	30	3770	---	---	---	138000	80	29800
TOTAL	1619600	---	148910	2557100	---	411570	3662800	---	730400

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	116000	70	21900	46500	30	3770	85700	50	11600
2	114000	70	21500	48000	30	3890	85500	50	11500
3	116000	70	21900	79100	50	10700	74300	50	10000
4	126000	80	27200	86700	50	11700	79000	50	10700
5	128000	80	27600	88200	50	11900	80400	50	10900
6	111000	70	21000	68400	40	7390	77700	50	10500
7	89500	60	14500	60400	40	6520	91800	60	14900
8	74300	50	10000	74100	50	10000	95300	60	15400
9	69100	40	7460	72700	50	9810	102000	60	16500
10	77100	50	10400	57100	40	6170	87000	50	11700
11	78000	50	10500	56200	40	6070	76300	50	10300
12	77200	50	10400	55900	30	4530	84800	50	11400
13	66900	40	7230	46900	30	3800	94800	60	15400
14	65700	40	7100	48500	30	3930	95400	60	15500
15	65100	40	7030	52400	30	4240	108000	70	20400
16	64900	40	7010	43600	30	3530	110000	70	20800
17	62100	40	6710	50900	30	4120	116000	70	21900
18	42500	30	3440	56400	40	6090	124000	80	26800
19	56800	40	6130	57100	40	6170	124000	80	26800
20	43400	30	3520	59500	40	6430	136000	80	29400
21	42900	30	3470	60200	40	6500	139000	80	30000
22	42900	30	3470	60000	40	6480	139000	80	30000
23	44600	30	3610	59700	40	6450	139000	80	30000
24	44900	30	3640	49500	30	4010	130000	80	28100
25	49800	30	4030	54500	30	4410	116000	70	21900
26	65900	40	7120	55400	30	4490	115000	70	21700
27	63200	40	6830	63200	40	6830	110000	70	20800
28	60200	40	6500	80700	50	10900	102000	60	1650
29	44800	30	3630	85000	50	11500	62500	40	6750
30	42900	30	3470	84400	50	11400	68700	40	7420
31	---	---	---	86600	50	11700	---	---	---
TOTAL	2145700	---	298300	1947800	---	215430	3049200	---	520720

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	64700	40	6990	24600	10	664	206	0	0
2	62000	40	6700	12300	10	332	14200	10	383
3	38600	20	2080	7640	0	0	24000	20	1300
4	45400	30	3680	15200	10	410	23200	10	626
5	37200	20	2010	18800	10	508	7240	0	0
6	39800	30	3220	19800	10	535	3820	0	0
7	33300	20	1800	18800	10	508	4280	0	0
8	33900	20	1830	17600	10	475	5720	0	0
9	42200	30	3420	15300	10	413	12400	10	335
10	36500	20	1970	8990	10	243	18700	10	505
11	35400	20	1910	17400	10	470	16600	10	448
12	28900	20	1560	16800	10	454	4400	0	0
13	24400	20	1320	13600	10	367	130	0	0
14	24300	20	1310	9510	10	257	292	0	0
15	24900	20	1340	17200	10	464	5260	0	0
16	25100	20	1360	19400	10	524	8090	10	218
17	25000	20	1350	30200	20	1630	17400	10	470
18	19000	10	513	19800	10	535	17200	10	464
19	17600	10	475	21300	10	575	28800	20	1560
20	17600	10	475	22100	10	597	40600	30	3290
21	18100	10	489	20200	10	545	24300	20	1310
22	22500	10	607	18100	10	489	27900	20	1510
23	19000	10	513	11300	10	305	19800	10	535
24	13300	10	359	4250	0	0	29400	20	1590
25	13900	10	375	14600	10	394	31800	20	1720
26	8280	0	0	21100	10	570	31100	20	1680
27	200	0	0	21600	10	583	17600	10	394
28	11900	0	0	18800	10	508	12500	0	0
29	17500	10	472	19400	10	524	3660	0	0
30	26000	10	702	9070	10	245	9370	10	251
31	27700	10	748	9510	10	257	---	---	---
TOTAL	854180	---	49578.00	514270	---	14381.00	459968	---	18589.00

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, AR

LOCATION.--Lat 35°06'25", long 93°55'25", in NW¼NW¼ sec.18, T.5 N., R.27 W., Logan County, on right bank at downstream side of bridge on State Highway 23, 0.5 mi (0.8 km) downstream from Fletcher Creek, 2.3 mi (3.7 km) south of Booneville, and at mile 102.3 (164.6 km).

DRAINAGE AREA.--241 mi^2 (624 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1938 to current year. Prior to October 1965, published as Petit Jean Creek near Booneville.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 423.39 ft (129.049 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--37 years (1939-76), 253 ft^3/s (7.16 m^3/s), 14.26 in/yr (362 mm/yr), 183,300 acre-ft/yr (226 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,200 ft^3/s (1,220 m^3/s) Apr. 16, 1939, gage height, 23.42 ft (7.138 m), from rating curve extended above 20,500 ft^3/s (581 m^3/s) on basis of slope-area measurement and contracted-opening measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,030 ft^3/s (142 m^3/s) Mar. 9, gage height, 14.52 ft (4.426 m); no flow at times.

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	1.1	.15	.84	162	23	44	125	38	18	4.9	.40	.12
2	.88	.14	.74	118	20	40	101	32	14	3.9	.55	.10
3	.70	.48	.63	90	18	36	87	27	11	3.2	.40	.14
4	.60	.61	.63	69	17	51	82	22	9.0	3.7	.32	.14
5	.40	.58	3.5	56	16	131	74	20	7.5	2.7	.28	.14
6	.46	.39	112	51	16	79	64	21	6.5	2.6	.28	.12
7	.55	.39	71	48	14	55	56	21	5.5	2.4	.25	.10
8	.40	.36	49	37	14	2150	49	19	4.7	2.1	.25	.10
9	.41	.42	29	29	13	3390	42	16	4.3	1.6	.22	.08
10	.36	.40	21	29	13	900	37	14	3.9	1.4	.22	.05
11	.46	.36	17	32	15	506	34	12	3.6	1.2	.16	.03
12	.40	.32	14	31	15	438	32	62	3.2	1.2	.16	.03
13	.38	.29	12	29	15	302	30	302	2.8	1.2	.12	.01
14	.32	.25	9.4	27	14	219	32	71	2.4	1.6	.12	.01
15	.32	.25	9.9	23	13	191	31	103	2.2	2.0	.12	0
16	.28	.22	11	21	12	167	26	89	3.0	34	.10	.04
17	.29	.22	12	20	40	135	22	61	2.4	13	.08	.10
18	.25	.14	10	19	142	115	24	38	3.7	6.9	.08	.16
19	.25	.23	8.2	19	99	103	57	26	3.4	5.0	.06	.60
20	.22	.57	7.4	19	67	93	1260	19	5.8	3.6	.06	13
21	.22	.29	7.0	19	249	80	610	16	4.7	2.6	.05	14
22	.19	.35	6.6	18	207	65	262	13	3.5	2.0	.05	8.0
23	.22	.38	6.5	17	137	57	168	11	2.8	7.5	.05	4.4
24	.26	.28	6.4	17	106	55	125	11	17	4.7	.08	2.7
25	.36	.25	10	131	84	55	102	37	69	3.0	.10	1.9
26	.31	.27	21	104	70	55	81	25	50	1.9	.12	1.5
27	.28	.30	52	54	59	58	64	19	20	1.3	.12	1.2
28	.23	.53	460	38	52	63	53	78	13	.90	.14	.90
29	.19	.78	1280	32	47	277	48	41	8.8	.60	.14	.77
30	.19	1.1	482	28	---	360	44	25	6.6	.40	.12	.66
31	.16	---	255	26	---	168	---	21	---	.36	.12	---
TOTAL	11.64	11.30	2985.74	1413	1607	10438	3822	1310	312.3	123.46	5.32	51.10
MEAN	.38	.38	96.3	45.6	55.4	337	127	42.3	10.4	3.98	.17	1.70
MAX	1.1	1.1	1280	162	249	3390	1260	302	69	34	.55	14
MIN	.16	.14	.63	17	12	36	22	11	2.2	.36	.05	0
CFSM	.001	.001	.40	.19	.23	1.40	.53	.18	.04	.02	0	.007
IN.	.002	.002	.46	.22	.25	1.61	.59	.20	.05	.02	.0008	.008
AC-FT	23	22	5920	2800	3190	20700	7580	2600	619	245	11	101

CAL YR 1975 TOTAL 119014.18 MEAN 326 MAX 11900 MIN .14 CFSM 1.35 IN 18.37 AC-FT 236100
WTR YR 1976 TOTAL 22090.86 MEAN 60.4 MAX 3390 MIN 0 CFSM .25 IN 3.41 AC-FT 43820

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, AR--Continued

WATER-QUALITY RECORDS

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
OCT												
07...	1028	1028	.50	--	--	--	14.5	--	--	--	--	--
08...	9827	9827	.40	120	7.7	17.0	16.0	60	20	5.6	56	2.0
NOV												
05...	9827	9827	.60	121	6.9	20.0	17.0	40	5	2.6	27	3.4
18...	1028	1028	.14	--	--	--	13.0	--	--	--	--	--
DEC												
01...	9827	9827	.80	109	7.3	4.0	5.0	70	7	5.1	40	3.6
29...	1028	1028	1210	--	--	--	9.0	--	--	--	--	--
JAN												
06...	9827	9827	.50	97	7.2	5.0	7.0	70	40	12.7	104	2.1
FEB												
03...	9827	9827	19	121	7.3	4.0	5.0	90	40	11.5	90	2.0
10...	1028	1028	12	--	--	--	7.0	--	--	--	--	--
MAR												
02...	9827	9827	40	105	7.2	22.0	17.0	50	35	8.7	90	1.4
23...	1028	1028	57	--	--	--	13.5	--	--	--	--	--
APR												
06...	9827	9827	64	106	7.2	12.0	9.0	35	25	8.8	76	1.0
MAY												
04...	9827	9827	23	87	7.3	16.0	15.0	30	20	8.4	82	1.0
04...	1028	1028	22	--	--	--	17.5	--	--	--	--	--
JUN												
01...	9827	9827	19	169	7.3	26.0	23.0	70	<25	6.7	77	1.6
22...	1028	1028	3.8	--	--	--	22.5	--	--	--	--	--
JUL												
06...	9827	9827	2.7	122	7.3	25.0	20.0	20	10	5.6	61	2.2
AUG												
03...	9827	9827	1.4	137	7.5	22.0	24.0	40	25	4.3	51	2.1
03...	1028	1028	.40	--	--	--	26.0	--	--	--	--	--
31...	9827	9827	.60	147	7.5	23.0	22.0	25	10	3.8	43	1.7

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
08...	180	40	--	--	--	--	--	--	--	--	--	--
NOV												
05...	300	140	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	85	17	10	34	0	7.0	18	4.0	8.5	2.4	56	0
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
06...	100	120	110	--	--	--	--	--	--	--	--	--
FEB												
03...	120	34	28	32	13	6.0	14	4.0	9.6	2.2	23	0
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
02...	13	110	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
06...	200	100	24	--	--	--	--	--	--	--	--	--
MAY												
04...	--	56	--	30	8	4.0	10	5.0	7.4	1.5	27	0
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	300	200	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	460	220	180	--	--	--	--	--	--	--	--	--
AUG												
03...	140	30	150	38	0	6.0	16	5.0	10	2.3	55	0
03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	<20	30	--	--	--	--	--	--	--	--	--	--

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	23	9.0	78	17	95	<.12	<.01	--	<10	0
NOV												
05...	--	--	5.0	6.0	89	12	101	<.10	.07	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	46	4.5	7.0	8.0	62	9	71	.12	<.01	<3	<10	0
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
06...	--	--	14	9.5	67	7	74	.38	.04	--	--	--
FEB												
03...	19	1.8	23	10	113	3	116	.24	.03	<3	<10	<3
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
02...	--	--	13	9.5	76	29	105	.16	.05	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
06...	--	--	13	7.5	66	13	79	.10	.03	--	--	--
MAY												
04...	22	2.2	7.0	7.5	63	13	76	<.10	<.01	<3	<10	<3
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	--	--	21	10	111	27	138	.13	.04	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	14	9.0	81	14	95	<.10	.04	--	--	--
AUG												
03...	45	2.8	6.0	8.0	91	15	106	.10	.06	<3	<10	<3
03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	7.0	8.5	98	--	--	<.10	.09	--	<10	--

DATE	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL TOXAPHENE (UG/L) (39400)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
08...	<10	1400	20	430	20	--	--	--	--	--	--	--
NOV												
05...	<10	830	--	1500	20	.00	.00	.00	.00	.00	.00	<1
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	1000	20	660	<10	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
06...	<10	1400	600	63	20	--	--	--	--	--	--	--
FEB												
03...	<10	1600	580	120	30	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
02...	<10	2000	30	130	20	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
06...	<10	1100	20	71	<10	--	--	--	--	--	--	--
MAY												
04...	<10	990	50	97	20	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	<10	1700	60	140	30	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	<10	2600	130	240	30	--	--	--	--	--	--	--
AUG												
03...	10	930	110	340	<10	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	<10	400	70	190	10	--	--	--	--	--	--	--

07259000 BLUE MOUNTAIN LAKE NEAR WAVELAND, AR

LOCATION.--Lat 35°06'06", long 93°39'02", in NW¼NW¼ sec.15, T.5 N., R.25 W., Yell County, at outlet structure at Blue Mountain Dam on Petit Jean River, 1.9 mi (3.1 km) southwest of Waveland, and at mile 74.4 (119.7 km).

DRAINAGE AREA.--488 mi^2 (1,264 km^2).

PERIOD OF RECORD.--March 1947 to current year. Prior to October 1969, published as Blue Mountain Reservoir near Waveland.

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

REMARKS.--Lake is formed by earthfill dam. Outlet works consist of a 20-ft (6.1 m) circular tunnel controlled by three 8 ft (2.4 m) by 17 ft (5.2 m) tractor-type gates and an uncontrolled saddle spillway 150 ft (45.7 m) long. Storage began Mar. 13, 1947. Capacity between elevations 384.0 ft (117.04 m) and 419.0 ft (127.71 m) is 233,300 acre-ft (288 hm^3) and is reserved for flood-control storage. Lake is used for flood-control, conservation and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest.....	419.0 (127.71 m)	257,900 (318 hm^3)
Top of conservation pool.....	384.0 (117.04 m)	24,640 (30.4 hm^3)
Bottom of lowest outlet (gate sills)..	370.0 (112.78 m)	1,940 (2.39 hm^3)

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 298,600 acre-ft (368 hm^3) May 26, 1957, elevation, 422.54 ft (128.790 m); minimum since initial filling to conservation-pool level, 2,150 acre-ft (2.65 hm^3) Oct. 2, 3, 1959, elevation, 370.68 ft (112.983 m), result of lowering pool to control fish population.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 47,720 acre-ft (58.8 hm^3) Mar. 11, elevation, 390.73 ft (119.095 m); minimum, 22,890 acre-ft (28.2 hm^3) Nov. 26, elevation, 383.36 ft (116.848 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

383	21,900	388	37,490
385	27,700	391	48,800

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24950	23430	23220	32790	26080	24880	26750	31640	35310	32750	29820	27300
2	24820	23520	23220	31950	26080	24820	25860	31710	35210	32620	29910	27240
3	24790	23630	23220	31010	25860	24790	25440	31680	34970	32620	29850	27240
4	24700	23790	23160	29970	25860	24880	25100	31680	34670	32690	29630	27180
5	24640	23760	23380	28950	25930	25040	24880	31880	34470	32580	29600	27090
6	24590	23710	24170	28130	25620	25160	24700	32010	34230	32450	29600	27000
7	24590	23710	24610	27300	25410	25190	24730	31950	34000	32350	29480	26900
8	24500	23680	24880	26200	25160	31680	24850	31950	33730	32210	29320	26780
9	24500	23760	24950	25410	24950	43350	24850	31910	33530	32080	29230	26750
10	24500	23540	25010	24850	24730	47000	24980	31980	33390	31980	29170	26720
11	24450	23630	25100	24610	24670	47280	24880	32010	33290	31880	29110	26540
12	24390	23540	25190	24530	24700	45690	24950	32790	33190	31780	29050	26380
13	24370	23350	25250	24700	24730	42690	25040	33320	33120	31640	28890	26320
14	24340	23270	25560	24760	24730	39430	25130	33730	33020	31540	28740	26290
15	24310	23220	25470	24850	24790	36550	25130	34030	33090	31440	28620	26260
16	24200	23190	25310	24880	24850	33190	25160	34330	32920	31370	28560	26260
17	24170	23130	25440	24820	25370	30400	25220	34400	32790	31210	28530	26260
18	24090	23110	25340	24730	25800	28500	25220	34400	33020	31110	28400	26230
19	24040	23490	25340	25100	25990	26970	25280	34470	32850	31010	28310	26260
20	23930	23600	25310	25100	26260	26290	27580	34470	32790	30870	28220	26260
21	23900	23320	25250	25130	27090	25370	29260	34470	32620	30800	28100	26110
22	23820	23270	25280	25100	27550	24950	29880	34430	32480	30710	28010	26020
23	23820	23240	25220	25160	27850	24850	30250	34770	32450	30650	27850	25960
24	23900	23220	25220	25220	27610	24730	30680	34800	32850	30620	27790	25860
25	23820	22970	25650	25590	26940	24760	30800	34730	33020	30490	27760	25800
26	23680	23220	25680	25800	26200	25130	30900	34570	33090	30400	27700	25860
27	23650	23080	25680	25860	25530	24880	31070	35040	33120	30310	27640	25680
28	23650	23020	26780	25960	25250	24920	31210	35140	33050	30250	27640	25710
29	23630	23680	31410	26020	25040	25560	31440	35140	32990	30120	27490	25650
30	23460	23300	33220	26050	---	26510	31580	35310	32850	30030	27360	25590
31	23460	---	33290	26110	---	26900	---	35310	---	29940	27300	---
MAX	24950	23790	33290	32790	27850	47280	31580	35310	35310	32750	29910	27300
MIN	23460	22970	23160	24530	24670	24730	24700	31640	32450	29940	27300	25590
(†)	383.57	383.51	386.75	384.48	384.13	384.74	386.24	387.35	386.62	385.73	384.87	384.31
(‡)	-1490	-160	+9990	-7180	-1070	+1860	+4680	+3730	-2460	-2910	-2640	-1710

CAL YR 1975 MAX 121100 MIN 22970 ‡-29080
WTR YR 1976 MAX 47280 MIN 22970 ‡ +640

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07259500 PETIT JEAN RIVER NEAR WAVELAND, AR

LOCATION.--Lat 35°06'17", long 93°37'53", in SE¼SW¼ sec.11, T.5 N., R.25 W., Yell County, on left bank 0.8 mi (1.3 km) downstream from Rock Creek, 1.2 mi (1.9 km) downstream from Cedar Creek, 1.3 mi (2.1 km) south of Waveland, 1.4 mi (2.3 km) downstream from Blue Mountain Dam, and at mile 73.0 (117.5 km).

DRAINAGE AREA.--516 mi^2 (1,336 km^2).

PERIOD OF RECORD.--January 1939 to current year. Published as Petit Jean Creek near Blue Mountain prior to October 1943, and as Petit Jean Creek near Waveland October 1943 to September 1965.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 339.70 ft (103.541 m) above mean sea level. Prior to Sept. 30, 1943, at site 1.8 mi (2.9 km) upstream at datum 9.54 ft (2.907 m) higher.

REMARKS.--Records good. Flow regulated by Blue Mountain Lake, 1.4 mi (2.3 km) upstream, since March 1947 (see station 07259000).

AVERAGE DISCHARGE.--37 years, 536 ft^3/s (15.2 m^3/s), 388,300 acre-ft/yr (478 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 62,600 ft^3/s (1,770 m^3/s) Apr. 16, 1939, gage height, 29.95 ft (9.129 m), site and datum then in use, or 34.0 ft (10.36 m) from floodmarks, present site; no flow at times in 1943, 1946. Maximum discharge since construction of Blue Mountain Dam in 1947, 8,580 ft^3/s (243 m^3/s) Jan. 2, 1947, gage height, 27.25 ft (8.306 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1916, that of Apr. 16, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,190 ft^3/s (62.0 m^3/s) Mar. 13, gage height, 14.09 ft (4.295 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Oct. 10-13, 25, 26.

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	16	16	20	770	61	189	354	18	34	40	22	24
2	16	16	21	743	75	135	622	18	81	39	19	25
3	16	16	23	719	85	116	429	16	128	39	21	22
4	15	16	23	699	85	115	328	16	127	39	22	23
5	15	16	25	688	111	114	243	16	126	38	24	23
6	16	17	82	679	157	113	172	16	125	39	25	23
7	15	18	43	671	156	112	116	15	122	38	23	24
8	14	17	41	658	155	183	71	15	119	39	20	24
9	16	17	43	494	153	246	59	15	93	39	19	24
10	12	16	41	376	114	119	50	16	56	38	20	23
11	12	17	38	253	70	838	48	16	42	38	19	21
12	12	17	37	83	59	1620	46	52	31	39	20	21
13	12	18	37	34	29	2160	46	29	29	39	23	21
14	15	19	36	33	29	2090	45	20	29	40	24	22
15	20	19	37	31	28	1990	44	22	29	39	22	22
16	17	18	38	30	28	1910	44	22	29	39	22	23
17	17	18	37	29	34	1700	44	28	27	38	22	22
18	17	18	36	29	53	1240	41	34	28	38	22	20
19	17	20	37	28	107	978	40	34	27	32	22	21
20	16	20	36	28	113	614	48	35	29	27	20	22
21	17	21	36	28	138	605	47	34	30	27	21	23
22	20	17	36	28	155	349	52	33	29	27	22	23
23	18	18	35	27	154	184	46	39	25	27	21	23
24	17	17	35	28	401	179	28	46	28	27	22	23
25	12	17	37	35	602	148	25	33	33	28	23	23
26	12	18	40	29	593	117	23	31	33	27	22	23
27	12	18	41	37	525	116	22	39	30	26	23	23
28	14	19	72	58	306	120	21	37	30	26	22	24
29	16	21	203	62	223	141	20	34	34	26	22	24
30	17	23	198	65	---	144	18	35	38	24	22	24
31	17	---	509	64	---	138	---	35	---	21	23	---
TOTAL	478	538	1973	7536	4799	18823	3192	849	1621	1043	674	683
MEAN	15.4	17.9	63.6	243	165	607	106	27.4	54.0	33.6	21.7	22.8
MAX	20	23	509	770	602	2160	622	52	128	40	25	25
MIN	12	16	20	27	28	112	18	15	25	21	19	20
AC-FT	948	1070	3910	14950	9520	37340	6330	1680	3220	2070	1340	1350

CAL YR 1975 TOTAL 243848 MEAN 668 MAX 2910 MIN 12 AC-FT 483700
WTR YR 1976 TOTAL 42209 MEAN 115 MAX 2160 MIN 12 AC-FT 83720

07260500 PETIT JEAN RIVER AT DANVILLE, AR

LOCATION.--Lat 35°03'33", long 93°23'44", in NW¼SE¼ sec.25, T.5 N., R.23 W., Yell County, on left bank at downstream side of bridge on State Highway 10 at Danville, 0.3 mi (0.5 km) upstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 0.5 mi (0.8 km) upstream from Spring Creek, 0.6 mi (1.0 km) downstream from Dutch Creek, and at mile 48.8 (78.5 km).

DRAINAGE AREA.--764 mi^2 (1,979 km^2).

PERIOD OF RECORD.--June 1916 to current year. Prior to October 1965, published as Petit Jean Creek at Danville.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 303.33 ft (92.455 m) above mean sea level. June 1, 1916, to Aug. 24, 1934, nonrecording gage on railroad bridge 0.3 mi (0.5 km) downstream at datum 0.25 ft (0.076 m) higher. Aug. 25, 1934, to July 12, 1939, nonrecording gage at present site and datum. Since June 18, 1954, auxiliary water-stage recorder 2.2 mi (3.5 km) downstream.

REMARKS.--Records good. Flow regulated by Blue Mountain Lake, 25.6 mi (41.2 km) upstream, since March 1947. (See station 07259000.) Danville diverted about 0.8 ft^3/s (0.023 m^3/s) for municipal use upstream from gage.

AVERAGE DISCHARGE.--60 years, 819 ft^3/s (23.2 m^3/s), 593,400 acre-ft/yr (732 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,800 ft^3/s (2,010 m^3/s) Apr. 17, 1939, gage height, 31.82 ft (9.699 m); no flow at times in 1924, 1934-36, 1943, 1956, 1963, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,390 ft^3/s (67.7 m^3/s) Mar. 9, gage height, 15.57 ft (4.746 m); minimum daily, 8.1 ft^3/s (0.23 m^3/s) Oct. 15.

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	34	14	23	1040	164	308	291	54	66	40	17	20
2	23	15	21	1060	154	264	608	49	118	41	17	27
3	18	19	20	982	160	224	667	42	139	42	17	37
4	17	20	20	811	162	206	431	40	149	75	14	33
5	17	18	27	756	163	206	375	38	142	69	15	28
6	16	15	318	722	194	195	274	42	140	49	17	25
7	16	13	471	701	214	179	223	41	131	43	20	24
8	17	15	267	671	211	679	170	37	125	40	20	24
9	14	17	208	627	208	2410	128	35	120	39	16	25
10	14	17	184	450	204	1860	111	34	92	37	12	27
11	14	15	160	391	169	950	100	32	64	37	13	26
12	12	14	143	266	146	1680	94	31	51	37	13	24
13	11	14	130	162	130	2120	90	67	39	35	14	21
14	9.5	14	118	123	105	2400	89	72	36	37	15	21
15	8.1	15	116	115	104	2380	85	66	33	41	17	19
16	12	17	112	111	103	2280	80	65	33	41	23	18
17	15	17	100	103	190	2170	78	56	28	37	19	18
18	15	17	89	99	813	1820	76	51	32	35	17	23
19	14	21	80	97	431	1490	77	57	32	35	21	23
20	13	38	74	98	355	986	93	55	31	32	19	21
21	13	31	68	95	533	728	144	54	31	24	14	21
22	14	22	63	93	502	642	164	53	33	24	13	19
23	15	18	59	92	402	308	130	54	31	22	13	19
24	20	16	57	92	369	257	107	96	30	24	13	22
25	22	15	58	171	598	242	87	81	109	25	19	23
26	17	16	70	256	638	204	89	56	70	24	25	22
27	12	16	110	196	613	209	82	77	47	24	23	22
28	10	17	134	173	506	202	72	115	39	22	21	23
29	9.7	17	1700	178	339	394	65	84	34	19	24	24
30	11	23	1430	175	---	532	60	66	37	21	24	24
31	13	---	935	170	---	382	---	66	---	19	22	---
TOTAL	466.3	536	7365	11076	8880	28907	5140	1766	2062	1090	547	703
MEAN	15.0	17.9	238	357	306	932	171	57.0	68.7	35.2	17.6	23.4
MAX	34	38	1700	1060	813	2410	667	115	149	75	25	37
MIN	8.1	13	20	92	103	179	60	31	28	19	12	18
CFSM	.02	.02	.31	.47	.40	1.22	.22	.07	.09	.05	.02	.03
IN.	.02	.03	.36	.54	.43	1.41	.25	.09	.10	.05	.03	.03
AC-FT	925	1060	14610	21970	17610	57340	10200	3500	4090	2160	1080	1390

CAL YR 1975 TOTAL 361648.3 MEAN 991 MAX 12300 MIN 8.1 CFSM 1.30 IN 17.61 AC-FT 717300
WTR YR 1976 TOTAL 68538.3 MEAN 187 MAX 2410 MIN 8.1 CFSM .24 IN 3.34 AC-FT 135900

07260640 PETIT JEAN RIVER NEAR CENTERVILLE, AR

LOCATION.--Lat 35°04'29", long 93°11'58", in NE¼ sec.23, T.5 N., R.21 W., Yell County, at bridge on State Highway 7, 3.8 mi (6.1 km) southwest of Centerville.

DRAINAGE AREA.--927 mi^2 (2,401 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
OCT												
08...	9827	9827	19	77	7.0	21.0	18.0	160	110	6.7	71	1.7
NOV												
05...	9827	9827	19	85	6.8	23.0	19.0	80	60	5.8	63	2.4
DEC												
01...	9827	9827	26	80	7.2	8.0	7.0	60	30	10.1	83	2.7
JAN												
06...	9827	9827	750	67	7.3	9.0	4.0	80	70	12.6	96	2.0
FEB												
03...	9827	9827	210	61	7.1	6.0	9.0	100	40	11.4	98	1.9
MAR												
02...	9827	9827	349	65	7.0	23.0	17.0	40	65	9.0	92	2.4
APR												
06...	9827	9827	341	59	6.9	14.0	10.0	100	65	9.1	81	2.2
MAY												
04...	9827	9827	56	87	7.1	20.0	19.0	80	60	8.4	89	2.6
JUN												
01...	9827	9827	87	80	6.9	26.0	24.0	120	130	7.2	85	2.9
JUL												
06...	9827	9827	56	86	7.0	30.0	21.0	80	150	5.2	58	2.6
AUG												
03...	9827	9827	17	114	7.2	29.0	26.0	60	75	4.8	59	1.9
31...	9827	9827	22	119	7.3	26.0	24.0	70	50	5.3	62	1.6

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)
OCT												
08...	400	250	--	--	--	--	--	--	--	--	--	--
NOV												
05...	300	300	--	--	--	--	--	--	--	--	--	--
DEC												
01...	240	140	120	25	0	5.0	12	3.0	6.7	3.0	33	0
JAN												
06...	220	140	270	--	--	--	--	--	--	--	--	--
FEB												
03...	320	70	90	18	4	3.0	8	2.0	5.2	1.9	17	0
MAR												
02...	1300	550	--	--	--	--	--	--	--	--	--	--
APR												
06...	270	94	40	--	--	--	--	--	--	--	--	--
MAY												
04...	--	160	--	26	8	5.0	12	3.0	5.5	1.9	22	0
JUN												
01...	--	320	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	200	24	--	--	--	--	--	--	--	--	--
AUG												
03...	80	30	120	32	7	6.0	14	4.0	9.0	3.0	31	0
31...	180	100	--	--	--	--	--	--	--	--	--	--

07260640 PETIT JEAN RIVER NEAR CENTERVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)
OCT											
08...	--	--	28	10	103	56	159	.30	.10	--	<10
NOV											
05...	--	--	4.0	9.5	85	49	134	.65	.14	--	--
DEC											
01...	27	3.3	12	9.5	64	17	81	.25	.08	<3	<10
JAN											
06...	--	--	5.0	7.5	68	34	102	.40	.08	--	--
FEB											
03...	14	2.2	5.0	6.5	--	--	--	.46	.05	<3	<10
MAR											
02...	--	--	6.0	8.0	52	84	136	.28	.10	--	--
APR											
06...	--	--	5.0	6.0	61	58	119	.31	.11	--	--
MAY											
04...	18	2.8	6.0	8.0	67	41	108	.28	.04	<3	<10
JUN											
01...	--	--	<1.0	7.0	83	100	183	.43	.05	--	--
JUL											
06...	--	--	4.0	9.0	103	110	213	.96	.23	--	--
AUG											
03...	25	3.1	7.0	11	99	59	158	.22	.15	<3	<10
31...	--	--	13	13	100	38	138	<.10	.11	--	<10

DATE	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT											
08...	0	<10	4800	<10	400	<10	--	--	--	--	--
NOV											
05...	--	--	2800	--	460	<10	.00	.00	.00	.00	<1
DEC											
01...	0	<10	2500	10	180	<10	--	--	--	--	--
JAN											
06...	--	<10	3100	<10	140	<10	--	--	--	--	--
FEB											
03...	<3	<10	1800	10	110	<10	--	--	--	--	--
MAR											
02...	--	<10	3700	10	230	<10	--	--	--	--	--
APR											
06...	--	<10	3200	<10	220	<10	--	--	--	--	--
MAY											
04...	<3	<10	3000	<10	300	<10	--	--	--	--	--
JUN											
01...	--	<10	5200	70	400	20	--	--	--	--	--
JUL											
06...	--	<10	7800	<10	450	10	--	--	--	--	--
AUG											
03...	<3	20	4400	<10	1300	<10	--	--	--	--	--
31...	--	<10	2800	<10	830	<10	--	--	--	--	--

07260660 ARKANSAS RIVER AT DAM NO. 9, NEAR OPPELO, AR

LOCATION.--Lat 35°07'42", long 92°47'06", in sec.35, T.6 N., R.17 W., Conway County, at Lock and Dam No. 9, 2.0 mi (3.2 km) northwest of Oppelo, and at mile 193.0 (310.5 km).

DRAINAGE AREA.--154,949 mi² (401,318 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
08...	9827	9827	8900	505	8.1	27.0	22.0	15	10	8.2
NOV										
05...	9827	9827	10700	568	8.0	27.0	20.0	10	10	9.1
DEC										
01...	9827	9827	3600	461	8.0	11.0	9.0	20	10	11.3
JAN										
06...	9827	9827	26900	454	8.1	11.0	6.0	30	25	12.2
FEB										
03...	9827	9827	12500	409	8.0	12.0	9.0	25	15	12.4
MAR										
02...	9827	9827	8900	248	8.0	26.0	19.0	20	15	9.9
APR										
06...	9827	9827	12500	636	8.2	20.0	13.0	15	15	10.8
MAY										
04...	9827	9827	47500	344	7.9	24.0	18.0	60	55	9.1
JUN										
01...	9827	9827	45600	975	8.0	31.0	23.0	30	55	7.9
JUL										
06...	9827	9827	85300	1000	8.1	32.0	24.0	20	40	8.4
AUG										
03...	9827	9827	18100	513	8.1	29.0	29.0	30	20	6.8
31...	9827	9827	5400	515	8.1	31.0	27.0	25	10	6.7

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
08...	93	1.5	200	59	--	--	--	--	--	--
NOV										
05...	99	1.4	380	150	--	--	--	--	--	--
DEC										
01...	97	1.4	200	7	15	120	13	37	92	7.0
JAN										
06...	97	2.0	740	170	36	--	--	--	--	--
FEB										
03...	107	2.6	88	40	<4	94	16	27	68	6.0
MAR										
02...	106	2.0	70	32	--	--	--	--	--	--
APR										
06...	102	2.5	230	40	4	--	--	--	--	--
MAY										
04...	96	1.5	--	270	--	100	26	29	72	7.0
JUN										
01...	91	1.8	740	150	--	--	--	--	--	--
JUL										
06...	99	2.3	340	85	8	--	--	--	--	--
AUG										
03...	87	1.5	100	31	4	130	32	39	98	7.0
31...	83	1.5	20	13	--	--	--	--	--	--

07260660 ARKANSAS RIVER AT DAM NO. 9, NEAR OPPELO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
08...	--	--	--	--	--	--	62	89	335	19
NOV										
05...	--	--	--	--	--	--	73	100	377	18
DEC										
01...	50	3.7	130	0	107	2.1	44	70	285	12
JAN										
06...	--	--	--	--	--	--	49	66	244	36
FEB										
03...	38	3.1	95	0	78	1.5	36	54	221	19
MAR										
02...	--	--	--	--	--	--	30	49	191	27
APR										
06...	--	--	--	--	--	--	45	110	325	16
MAY										
04...	28	3.1	90	0	74	1.8	21	36	200	41
JUN										
01...	--	--	--	--	--	--	71	210	548	26
JUL										
06...	--	--	--	--	--	--	66	200	551	36
AUG										
03...	44	3.5	120	0	98	1.5	40	63	292	9
31...	--	--	--	--	--	--	40	64	294	8

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
08...	354	.10	.02	--	<10	0	<10	480	80	72
NOV										
05...	395	<.10	.09	--	--	--	<10	470	--	55
DEC										
01...	297	.21	.02	<3	<10	0	<10	490	360	79
JAN										
06...	280	.51	.05	--	--	--	<10	800	630	85
FEB										
03...	240	.36	.04	<3	<10	<3	<10	590	40	46
MAR										
02...	218	.16	.05	--	--	--	<10	780	40	83
APR										
06...	341	.11	.09	--	--	--	<10	520	20	73
MAY										
04...	241	.51	.04	<3	<10	<3	<10	2600	40	140
JUN										
01...	574	.34	.10	--	--	--	<10	1500	50	130
JUL										
06...	587	.16	.10	--	--	--	<10	1700	40	160
AUG										
03...	301	.32	.09	<3	<10	<3	20	540	<10	88
31...	302	<.10	.11	--	<10	--	<10	420	60	35

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
08...	10	--	--	--	--	--	--	--	--
NOV									
05...	30	--	--	--	--	--	--	--	--
DEC									
01...	10	--	--	--	--	--	--	--	--
JAN									
06...	20	--	--	--	--	--	--	--	--
FEB									
03...	10	.00	.00	.00	.00	.00	.00	.00	<1
MAR									
02...	20	--	--	--	--	--	--	--	--
APR									
06...	<10	--	--	--	--	--	--	--	--
MAY									
04...	30	--	--	--	--	--	--	--	--
JUN									
01...	40	--	--	--	--	--	--	--	--
JUL									
06...	20	--	--	--	--	--	--	--	--
AUG									
03...	<10	--	--	--	--	--	--	--	--
31...	10	--	--	--	--	--	--	--	--

07261000 CADRON CREEK NEAR GUY, AR

LOCATION.--Lat 35°17'56", long 92°24'10", in NW¼SE¼ sec.29, T.8 N., R.13 W., Faulkner County, on left bank on downstream side of bridge on U.S. Highway 65, 4.3 mi (6.9 km) southwest of Guy, and 10.5 mi (16.9 km) upstream from Cove Creek, and at mile 48.3 (77.7 km).

DRAINAGE AREA.--169 mi^2 (438 km^2).

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1965, published as North Fork Cadron Creek near Guy.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 371.68 ft (113.288 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--22 years, 290 ft^3/s (8.21 m^3/s), 21.06 in/yr (535 mm/yr), 210,100 acre-ft/yr (259 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s (527 m^3/s) Aug. 14, 1957, gage height, 24.95 ft (7.605 m), from rating curve extended above 14,000 ft^3/s (396 m^3/s); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft^3/s (113 m^3/s) and maximum(*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 18	0630	4,900	139	12.13	3.697
June 25	1330	*7,750	219	15.58	4.749

No flow part of each day Aug. 21-22.

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	24	12	371	1120	308	233	485	173	1080	340	19	1.5
2	21	12	237	880	266	210	391	152	1410	264	15	5.0
3	19	16	181	680	236	189	328	130	764	223	8.9	194
4	19	40	149	540	212	174	279	109	515	364	6.8	80
5	17	66	131	420	196	282	237	96	453	367	6.1	50
6	16	50	679	350	189	272	209	100	469	245	6.2	40
7	15	40	702	290	166	222	185	115	351	191	5.0	26
8	15	32	442	243	154	380	162	98	272	159	4.0	19
9	14	28	335	194	147	1840	144	85	218	140	3.4	14
10	13	26	264	193	139	1250	131	79	180	130	2.8	11
11	13	23	220	186	144	827	125	76	154	114	2.6	11
12	13	22	191	177	159	739	146	75	139	101	2.6	8.0
13	10	19	168	164	142	581	128	117	125	89	2.2	6.3
14	8.8	17	151	150	129	473	132	134	109	79	1.7	5.0
15	8.0	15	142	135	122	415	127	376	163	71	1.5	4.1
16	6.8	14	137	130	120	362	113	1010	804	65	.90	3.3
17	5.4	14	126	121	866	301	102	522	340	56	.80	2.7
18	4.7	14	112	113	3500	266	95	356	252	50	.60	2.3
19	4.3	15	102	109	1390	239	419	262	286	45	.32	1.9
20	5.1	20	97	122	904	285	419	203	208	40	.19	1.9
21	5.7	20	93	132	1730	608	585	163	165	41	.03	1.8
22	5.4	26	87	118	1110	401	425	137	145	34	.29	2.4
23	5.5	24	83	110	769	335	319	118	2800	30	1.3	1.9
24	6.7	20	79	108	600	295	312	167	3280	27	1.9	1.5
25	26	20	98	595	486	288	599	201	5830	28	2.5	1.4
26	62	23	142	1470	402	266	429	149	1970	26	2.0	1.3
27	34	26	220	880	338	452	329	332	1050	23	1.5	1.3
28	23	35	410	649	294	381	264	1060	706	20	1.8	1.2
29	19	42	2700	518	261	990	222	650	518	19	1.8	1.4
30	16	281	1980	426	---	869	194	437	468	16	1.5	1.6
31	14	---	1470	359	---	630	---	347	---	11	1.2	---
TOTAL	469.4	1012	12299	11682	15479	15055	8035	8029	25224	3408	106.43	502.8
MEAN	15.1	33.7	397	377	534	486	268	259	841	110	3.43	16.8
MAX	62	281	2700	1470	3500	1840	599	1060	5830	367	19	194
MIN	4.3	12	79	108	120	174	95	75	109	11	.03	1.2
CFSM	.09	.20	2.35	2.23	3.16	2.88	1.59	1.53	4.98	.65	.02	.10
IN.	.10	.22	2.71	2.57	3.41	3.31	1.77	1.77	5.55	.75	.02	.11
AC-FT	931	2010	24400	23170	30700	29860	15940	15930	50030	6760	211	997

CAL YR 1975 TOTAL 130767.60 MEAN 358 MAX 11600 MIN 1.8 CFSM 2.12 IN 28.78 AC-FT 259400
WTR YR 1976 TOTAL 101301.63 MEAN 277 MAX 5830 MIN .03 CFSM 1.64 IN 22.30 AC-FT 200900

07261250 CADRON CREEK WEST OF CONWAY, AR

LOCATION.--Lat 35°06'53", long 92°31'20", in SW¼NW¼ sec.32, T.6 N., R.14 W., Faulkner County, 120 ft (37 m) upstream from bridge on U.S. Highway 64 at county line near Conway.

PERIOD OF RECORD.--October 1968 to September 1973, February 1974 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
08...	9827	9827	97	39	7.1	26.0	23.0	40	25	9.2
NOV										
05...	9827	9827	213	43	6.8	24.0	19.0	30	30	8.0
DEC										
01...	9827	9827	1440	50	7.3	8.0	9.0	40	45	10.2
JAN										
06...	9827	9827	1540	37	6.7	7.0	6.0	50	20	10.9
FEB										
03...	9827	9827	1110	44	6.8	13.0	7.0	45	30	10.4
MAR										
02...	9827	9827	805	46	6.7	28.0	22.0	50	50	8.6
APR										
06...	9827	9827	855	41	6.7	23.0	14.0	35	35	8.8
MAY										
04...	9827	9827	238	40	7.0	24.0	19.0	35	35	10.5
JUN										
01...	9827	9827	1420	44	6.6	25.0	22.0	60	75	7.8
JUL										
06...	9827	9827	915	47	6.6	31.0	26.0	40	40	6.0
AUG										
03...	9827	9827	.00	68	7.7	28.0	27.0	50	40	9.2
31...	9827	9827	.00	104	7.8	29.0	29.0	25	15	9.5

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
08...	106	3.6	200	72	--	--	--	--	--	--
NOV										
05...	86	2.1	600	50	--	--	--	--	--	--
DEC										
01...	88	3.0	680	480	1800	16	0	4.0	10	1.0
JAN										
06...	87	2.2	40	87	70	--	--	--	--	--
FEB										
03...	85	2.2	20	32	40	12	2	2.0	6	1.0
MAR										
02...	98	2.6	140	140	--	--	--	--	--	--
APR										
06...	85	4.7	160	94	<4	--	--	--	--	--
MAY										
04...	112	3.1	--	5	--	12	0	2.0	6	1.0
JUN										
01...	89	3.0	800	1200	--	--	--	--	--	--
JUL										
06...	73	3.0	260	56	12	--	--	--	--	--
AUG										
03...	114	5.6	140	40	30	26	0	6.0	16	2.0
31...	122	4.0	20	<7	--	--	--	--	--	--

07261250 CADRON CREEK WEST OF CONWAY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
08...	--	--	--	--	--	--	22	6.5	50	28
NOV										
05...	--	--	--	--	--	--	3.0	4.5	52	26
DEC										
01...	3.3	2.7	22	0	18	1.8	9.0	6.5	39	46
JAN										
06...	--	--	--	--	--	--	8.0	6.5	34	14
FEB										
03...	2.9	1.6	12	0	10	3.0	3.0	4.5	--	--
MAR										
02...	--	--	--	--	--	--	2.0	5.5	38	76
APR										
06...	--	--	--	--	--	--	2.0	4.5	23	54
MAY										
04...	3.0	1.5	15	0	12	2.4	1.0	3.5	34	54
JUN										
01...	--	--	--	--	--	--	8.0	5.0	52	50
JUL										
06...	--	--	--	--	--	--	7.0	4.5	51	33
AUG										
03...	5.2	1.8	32	0	26	1.0	1.0	5.0	76	21
31...	--	--	--	--	--	--	2.0	6.5	76	13

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
08...	78	.10	.04	--	--	--	--	--	--	--
NOV										
05...	78	.32	.10	--	--	--	--	--	--	--
DEC										
01...	85	.18	.07	<3	<10	0	<10	2500	50	190
JAN										
06...	48	.60	.07	--	--	--	--	--	--	--
FEB										
03...	--	.53	.07	<3	<10	<3	<10	1000	<10	80
MAR										
02...	114	.37	.09	--	--	--	--	--	--	--
APR										
06...	77	.39	.15	--	--	--	--	--	--	--
MAY										
04...	88	.23	.04	<3	<10	<3	<10	1700	20	200
JUN										
01...	102	.46	<.01	--	--	--	--	--	--	--
JUL										
06...	84	.18	.13	--	--	--	--	--	--	--
AUG										
03...	97	.10	.84	<3	<10	<3	<10	1800	<10	160
31...	89	<.10	.07	--	--	--	--	--	--	--

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
08...	--	--	--	--	--	--	--	--	--
NOV									
05...	--	--	--	--	--	--	--	--	--
DEC									
01...	<10	--	--	--	--	--	--	--	--
JAN									
06...	--	--	--	--	--	--	--	--	--
FEB									
03...	<10	.00	.00	.00	.00	.00	.00	.00	<1
MAR									
02...	--	--	--	--	--	--	--	--	--
APR									
06...	--	--	--	--	--	--	--	--	--
MAY									
04...	<10	--	--	--	--	--	--	--	--
JUN									
01...	--	--	--	--	--	--	--	--	--
JUL									
06...	--	--	--	--	--	--	--	--	--
AUG									
03...	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--

07261260 ARKANSAS RIVER AT TOAD SUCK FERRY DAM, NEAR CONWAY, AR

LOCATION.--Lat 35°04'30", long 92°32'06", in sec.18, T.5 N., R.14 W., Faulkner County, at Toad Suck Ferry Dam, 6.0 mi (9.7 km) west of Conway, and at mile 172.0 (276.7 km).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
08...	9827	9827	8400	484	8.1	27.0	23.0	15	10	8.6
NOV										
05...	9827	9827	9400	613	8.0	20.0	20.0	5	10	9.2
DEC										
01...	9827	9827	13400	447	8.1	8.0	9.0	20	10	11.2
04...	9827	9827	68000	--	--	--	--	--	--	--
JAN										
06...	9827	9827	31800	364	8.0	8.0	6.0	30	30	12.2
FEB										
03...	9827	9827	13400	287	7.8	14.0	8.0	30	20	11.7
MAR										
02...	9827	9827	10400	299	7.8	27.0	21.0	20	30	9.8
APR										
06...	9827	9827	9400	544	8.1	22.0	14.0	15	20	10.9
MAY										
04...	9827	9827	49200	337	7.9	25.0	18.0	70	60	9.7
JUN										
01...	9827	9827	47100	812	7.9	28.0	28.0	30	55	9.1
JUL										
06...	9827	9827	77800	953	8.0	34.0	26.0	20	40	8.7
AUG										
03...	9827	9827	17400	504	8.2	29.0	28.0	20	15	8.0
31...	9827	9827	4500	493	8.5	30.0	27.0	20	8	9.5

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
08...	99	1.4	100	67	--	--	--	--	--	--
NOV										
05...	100	1.6	500	140	--	--	--	--	--	--
DEC										
01...	97	1.4	260	53	30	120	13	38	96	6.0
04...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	98	2.2	440	170	35	--	--	--	--	--
FEB										
03...	98	2.4	280	56	15	70	11	20	50	5.0
MAR										
02...	109	3.5	130	15	--	--	--	--	--	--
APR										
06...	105	2.5	500	52	8	--	--	--	--	--
MAY										
04...	102	1.5	--	160	--	98	26	27	68	7.0
JUN										
01...	115	2.3	710	130	--	--	--	--	--	--
JUL										
06...	106	2.8	440	40	32	--	--	--	--	--
AUG										
03...	101	2.0	--	13	<4	130	32	38	96	8.0
31...	117	2.6	20	5	--	--	--	--	--	--

07261260 ARKANSAS RIVER AT TOAD SUCK FERRY DAM, NEAR CONWAY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
08...	--	--	--	--	--	--	65	84	336	18
NOV										
05...	--	--	--	--	--	--	72	110	389	23
DEC										
01...	51	3.7	130	0	107	1.7	40	69	276	13
04...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	--	--	--	--	--	--	30	54	201	15
FEB										
03...	30	2.8	72	0	59	1.8	23	40	164	18
MAR										
02...	--	--	--	--	--	--	23	42	163	34
APR										
06...	--	--	--	--	--	--	38	98	279	25
MAY										
04...	28	3.1	88	0	72	1.8	19	37	198	42
JUN										
01...	--	--	--	--	--	--	56	160	464	38
JUL										
06...	--	--	--	--	--	--	61	200	514	42
AUG										
03...	43	3.6	120	0	98	1.2	38	63	290	0
31...	--	--	--	--	--	--	36	65	285	7

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
08...	354	<.10	.02	--	<10	0	<10	500	20	89
NOV										
05...	412	<.10	.08	--	--	--	<10	350	--	64
DEC										
01...	289	.19	.02	<3	<10	0	<10	490	90	59
04...	--	--	--	--	--	--	--	--	--	--
JAN										
06...	216	.39	.04	--	--	--	<10	840	230	83
FEB										
03...	182	.49	.01	<3	<10	<3	<10	720	190	62
MAR										
02...	197	.19	.06	--	--	--	<10	1600	110	230
APR										
06...	304	.14	.90	--	--	--	<10	800	50	120
MAY										
04...	240	.54	.07	<3	<10	<3	<10	2600	80	150
JUN										
01...	502	.36	.01	--	--	--	<10	1500	40	120
JUL										
06...	556	.11	.11	--	--	--	10	2400	30	180
AUG										
03...	290	.32	.07	<3	<10	<3	10	520	<10	110
31...	292	<.10	.09	--	<10	--	<10	250	40	31

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
08...	40	--	--	--	--	--	--	--	--
NOV									
05...	50	--	--	--	--	--	--	--	--
DEC									
01...	<10	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--
JAN									
06...	20	--	--	--	--	--	--	--	--
FEB									
03...	<10	.00	.00	.00	.00	.00	.00	.00	<1
MAR									
02...	20	--	--	--	--	--	--	--	--
APR									
06...	20	--	--	--	--	--	--	--	--
MAY									
04...	30	--	--	--	--	--	--	--	--
JUN									
01...	20	.00	.00	.00	.00	.00	.00	.00	<1
JUL									
06...	30	--	--	--	--	--	--	--	--
AUG									
03...	10	.00	.00	.00	.00	.00	.00	.00	<1
31...	<10	.00	.00	.00	.00	.00	.00	.00	<1

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, AR

LOCATION.--Lat 34°52'21", long 93°39'24", in NW¼NW¼ sec.34, T.3 N., R.25 W., Yell County, near left bank on downstream side of bridge on State Highway 28, 1.2 mi (1.9 km) downstream from Garner Creek, 1.9 mi (3.1 km) east of Gravelly, 6.4 mi (10.3 km) upstream from Gaffords Creek, and at mile 103.7 (166.9 km).

DRAINAGE AREA.--410 mi^2 (1,062 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1007: 1939. WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 410.50 ft (125.120 m) above mean sea level (levels by Corps of Engineers). Prior to May 11, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--37 years, 535 ft^3/s (15.2 m^3/s), 17.72 in/yr (450 mm/yr), 387,600 acre-ft/yr (478 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,400 ft^3/s (1,970 m^3/s) May 20, 1960, and July 26, 1969, gage height, 30.30 ft (9.235 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,660 ft^3/s (189 m^3/s) Mar. 9, gage height, 11.84 ft (3.609 m), from peak-stage indicator, no peaks above base of 10,000 ft^3/s (280 m^3/s); no flow at times.

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	20	3.9	11	756	89	151	264	132	64	37	3.2	0
2	20	3.6	9.8	540	84	142	236	120	70	29	7.6	0
3	16	4.4	10	413	80	130	213	92	89	23	13	.80
4	14	4.9	13	324	77	125	198	74	92	22	13	1.5
5	12	4.3	48	272	78	123	186	84	81	19	12	1.5
6	11	3.5	945	240	83	103	171	84	77	14	12	1.3
7	10	2.9	1140	219	78	100	158	81	74	12	12	1.0
8	11	3.5	511	202	74	612	147	70	68	9.8	12	.80
9	8.4	7.0	326	200	72	4960	130	63	62	8.6	11	.60
10	7.6	6.6	238	177	70	2290	123	64	58	7.0	10	.40
11	7.4	4.6	197	153	73	1270	114	58	50	6.0	9.2	.10
12	7.4	5.5	166	144	70	883	106	77	37	4.8	7.8	0
13	7.1	6.9	145	136	68	685	111	262	33	3.5	6.8	0
14	7.3	6.8	127	127	65	510	103	332	31	3.5	6.0	0
15	7.7	7.0	120	117	64	444	95	252	29	3.3	5.2	0
16	8.3	8.5	112	109	63	378	86	197	31	3.5	4.6	0
17	8.4	9.9	103	101	142	318	80	165	31	4.3	3.6	.20
18	8.2	10	96	97	387	287	74	141	32	4.0	2.9	.70
19	8.1	12	89	90	274	254	80	118	29	4.0	2.1	1.4
20	8.0	13	84	87	230	211	125	100	27	4.5	1.7	2.8
21	7.4	15	79	84	274	200	585	81	25	6.4	1.3	3.2
22	6.8	20	73	81	289	234	521	77	23	8.4	.90	2.9
23	6.2	15	69	77	309	215	332	81	23	6.4	.40	3.3
24	6.1	12	67	76	270	200	276	100	26	4.5	.10	4.0
25	6.9	10	81	83	238	190	254	77	38	3.5	0	4.3
26	6.4	7.6	91	106	213	179	285	68	43	3.3	0	4.3
27	5.5	7.7	104	87	191	169	230	64	47	2.9	0	4.3
28	4.8	9.1	150	103	174	166	191	63	68	2.9	0	4.1
29	4.4	8.9	1900	104	163	238	167	63	60	2.9	0	4.1
30	4.5	12	2110	98	---	313	148	64	47	2.9	0	4.0
31	4.4	---	1190	93	---	302	---	66	---	3.1	0	---
TOTAL	271.3	246.1	10404.8	5496	4342	16382	5789	3370	1465	270.0	158.40	51.60
MEAN	8.75	8.20	336	177	150	528	193	109	48.8	8.71	5.11	1.72
MAX	20	20	2110	756	387	4960	585	332	92	37	13	4.3
MIN	4.4	2.9	9.8	76	63	100	74	58	23	2.9	0	0
CFSM	.02	.02	.82	.43	.37	1.29	.47	.27	.12	.02	.01	.004
IN.	.02	.02	.94	.50	.39	1.49	.53	.31	.13	.02	.01	.005
AC-FT	538	488	20640	10900	8610	32490	11480	6680	2910	536	314	102

CAL YR 1975 TOTAL 206609.20 MEAN 566 MAX 18200 MIN 2.9 CFSM 1.38 IN 18.75 AC-FT 409800
WTR YR 1976 TOTAL 48246.20 MEAN 132 MAX 4960 MIN 0 CFSM .32 IN 4.38 AC-FT 95700

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, AR--Continued

WATER-QUALITY RECORDS

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
01...	9827	9827	--	46	7.0	20.0	23.0	25	5	8.9
07...	1028	1028	10	--	--	--	21.5	--	--	--
29...	9827	9827	4.8	48	7.0	25.0	22.0	20	5	6.2
NOV										
18...	1028	1028	10	--	--	--	12.5	--	--	--
DEC										
03...	9827	9827	12	65	6.9	17.0	15.0	20	4	11.3
30...	1028	1028	2140	--	--	--	6.5	--	--	--
JAN										
07...	9827	9827	211	40	6.8	<2.0	6.0	30	20	12.8
FEB										
04...	9827	9827	73	37	7.1	23.0	11.0	60	15	12.2
10...	1028	1028	70	--	--	--	7.5	--	--	--
MAR										
03...	9827	9827	127	42	6.9	29.0	20.0	40	20	9.5
24...	1028	1028	202	--	--	--	14.5	--	--	--
31...	9827	9827	295	43	7.1	19.0	18.0	50	20	10.3
MAY										
05...	9827	9827	14	46	7.2	24.0	22.0	40	10	9.7
05...	1028	1028	84	--	--	--	19.0	--	--	--
JUN										
02...	9827	9827	14	49	7.2	27.0	28.0	40	<25	8.5
16...	1028	1028	31	--	--	--	25.0	--	--	--
JUL										
06...	9827	9827	9.3	47	7.1	34.0	31.0	20	8	8.9
27...	1028	1028	3.0	--	--	--	30.0	--	--	--
AUG										
03...	9827	9827	13	57	7.3	26.0	30.0	50	45	6.8
SEP										
07...	1028	1028	1.0	--	--	--	25.0	--	--	--
07...	9827	9827	1.0	64	7.2	29.0	27.0	20	8	7.2

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
01...	102	2.1	100	50	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
29...	71	--	90	10	--	--	--	--	--	--
NOV										
18...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	111	2.4	<10	<5	--	26	9	6.0	16	2.0
30...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	103	--	80	10	33	26	17	3.0	8	4.0
FEB										
04...	110	1.2	<7	<4	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	103	1.4	7	4	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
31...	108	1.3	100	30	--	12	1	2.0	6	1.0
MAY										
05...	110	1.8	40	<4	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	108	1.1	<10	<4	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	119	--	60	<4	90	14	0	2.0	6	2.0
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	89	1.5	150	60	100	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--
07...	89	2.0	<10	<7	--	--	--	--	--	--

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
01...	--	--	--	--	--	--	7.0	5.0	31	7
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	<1.0	4.5	43	9
NOV										
18...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	3.1	1.0	21	0	17	4.2	8.0	6.0	21	9
30...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	--	--	11	0	9	2.8	5.0	7.5	48	6
FEB										
04...	--	--	--	--	--	--	3.0	4.5	42	6
10...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	3.0	5.5	36	20
24...	--	--	--	--	--	--	--	--	--	--
31...	2.8	.9	14	0	11	1.8	4.0	5.5	37	26
MAY										
05...	--	--	--	--	--	--	1.0	5.0	41	30
05...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	--	--	--	--	--	6.0	4.5	37	8
16...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	4.7	1.0	18	0	15	2.3	3.0	5.0	42	4
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	2.0	4.5	51	31
SEP										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	3.0	4.5	29	20

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
01...	38	.10	<.01	--	<10	0	80	380	<10	42
07...	--	--	--	--	--	--	--	--	--	--
29...	52	<.10	<.01	--	--	--	160	300	--	35
NOV										
18...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	30	.51	.01	<3	<10	0	80	370	20	15
30...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	54	.51	.02	--	--	--	150	900	--	<27
FEB										
04...	48	.16	.03	--	--	--	170	790	--	44
10...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	56	.29	.03	--	--	--	120	1100	--	38
24...	--	--	--	--	--	--	--	--	--	--
31...	63	.15	<.01	<3	<10	<0	30	790	<10	<27
MAY										
05...	71	.14	.04	--	--	--	160	860	--	49
05...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	45	.12	.01	--	--	--	50	820	--	36
16...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	46	.11	.05	<3	<10	<3	120	560	10	56
27...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	82	.13	.31	--	--	--	40	830	--	110
SEP										
07...	--	--	--	--	--	--	--	--	--	--
07...	49	<.10	<.01	--	--	--	--	--	--	--

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
01...	60	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--
29...	100	--	--	--	--	--	--	--	--
NOV									
18...	--	--	--	--	--	--	--	--	--
DEC									
03...	<10	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JAN									
07...	40	.00	.00	.00	.00	.00	.00	.00	<1
FEB									
04...	30	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
MAR									
03...	20	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
31...	<60	--	--	--	--	--	--	--	--
MAY									
05...	60	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
JUN									
02...	30	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
JUL									
06...	50	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
AUG									
03...	20	--	--	--	--	--	--	--	--
SEP									
07...	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--

07262000 NIMROD LAKE NEAR NIMROD, AR

LOCATION.--Lat 34°57'07", long 93°09'38", in NW¼SW¼ sec.32, T.4 N., R.20 W., Perry County, at Nimrod Dam on Fourche LaFave River, 4.8 mi (7.7 km) west of Nimrod, 10.2 mi (16.4 km) upstream from South Fourche LaFave River, and at mile 62.6 (100.7 km).

DRAINAGE AREA.--680 mi^2 (1,760 km^2).

PERIOD OF RECORD.--May 1942 to current year. Prior to October 1944, monthend contents only, published in WSP 1311.

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

REMARKS.--Lake is formed by concrete-gravity dam. Storage began May 18, 1942. Capacity between elevations 342.0 ft (104.24 m) and 373.0 ft (113.69 m) is 307,000 acre-ft (378 hm^3) and is reserved for flood-control storage. Figures given herein represent total contents. Contents computed from daily readings at 2400 to five significant figures prior to Oct. 1, 1963. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest.....	373.0 (113.69 m)	336,000 (414 hm^3)
Top of conservation pool.....	342.0 (104.24 m)	29,000 (35.8 hm^3)
Bottom of lowest outlet.....	314.9 (95.98 m)	867 (1.07 hm^3)

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 370,100 acre-ft (456 hm^3) Apr. 24, 1973, elevation, 374.82 ft (114.245 m); minimum since initial filling to conservation pool, 4,620 acre-ft (5.70 hm^3) Dec. 1, 1960, elevation, 327.52 ft (99.828 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 57,120 acre-ft (70.4 hm^3) Mar. 11, elevation, 348.10 ft (106.101 m); minimum, 26,490 acre-ft (32.7 hm^3) Nov. 19, elevation, 341.29 ft (104.025 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

341	25,460
345	41,020
349	62,200

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29010	27310	28190	48080	29580	29580	31420	37640	41810	40810	36920	32420
2	28900	27270	28230	47540	29610	29680	30780	37760	42400	40720	36870	32420
3	28830	27380	28300	46400	29650	29680	30750	37930	42550	40940	36710	32490
4	28760	27340	28340	44720	29720	30000	30500	38060	42550	41020	36490	32420
5	28660	27310	29050	43050	30110	30000	30220	38520	42400	40980	36320	32310
6	28620	27240	31140	41170	30110	30000	29930	38650	42350	40850	36160	32170
7	28620	27130	34210	39580	29900	29970	29610	38780	42110	40680	35940	32100
8	28550	27020	35010	37590	29720	33740	29540	38780	41860	40600	35770	31990
9	28440	27130	34290	35610	29510	48580	29650	38860	41560	40510	35650	31890
10	28620	26920	33320	33620	29540	56550	29720	38990	41120	40340	35390	31780
11	28510	26950	32210	31710	29720	55480	29680	39030	40720	40170	35270	31600
12	28410	26920	31180	30180	29830	51800	29790	39670	40340	40050	35060	31500
13	28370	26700	30080	29330	29900	47290	29790	39880	40130	39880	34930	31420
14	28300	26670	29470	29290	29900	42350	29830	40940	40090	39790	34630	31420
15	28230	26630	29080	29400	29900	37930	29930	41910	40130	39580	34680	31320
16	28190	26630	28940	29510	29900	33490	30080	42350	40090	39500	34510	31250
17	28120	26600	29080	29470	33320	31350	30250	42300	40000	39240	34250	31210
18	28050	26560	29010	29510	38480	30290	30430	42160	40220	39120	34080	31140
19	27980	27310	29080	29680	39670	30150	30750	42010	40090	38900	33870	31140
20	27940	27730	29260	29680	38990	30750	31320	41860	39960	38690	33740	31070
21	27870	27270	29360	29680	39240	31030	31530	41610	39880	38520	33580	30930
22	27800	27340	29470	29650	38570	31030	32860	41320	39790	38360	33410	30780
23	27770	27270	29580	29610	37760	30780	33790	41020	39750	38230	33320	30610
24	28020	27340	29760	29760	36830	30500	34630	40980	40430	38060	33190	30470
25	27910	27240	30430	30470	35650	30180	35140	40770	40770	37850	32980	30360
26	27770	27550	30640	30750	34170	30000	35610	40890	40810	37760	32860	30250
27	27700	27550	31000	30930	32420	29680	36110	41960	40810	37590	32940	30110
28	27630	27550	31990	30640	30860	30250	36580	42260	40810	37470	32810	30080
29	27550	28370	39070	30290	29760	31280	37040	42110	40810	37170	32730	30000
30	27480	28120	46010	29900	---	32130	37420	42010	40720	37260	32520	29830
31	27380	---	47990	29650	---	32100	---	41910	---	37130	32490	---
MAX	29010	28370	47990	48080	39670	56550	37420	42350	42550	41020	36920	32490
MIN	27380	26560	28190	29290	29510	29580	29540	37640	39750	37130	32490	29830
(†)	341.54	341.75	346.41	342.18	342.21	342.87	344.15	345.18	344.93	344.08	342.98	342.23
(‡)	-1560	+740	+19870	-18340	+110	+2340	+5320	+4490	-1190	-3590	-4640	-2660

CAL YR 1975 MAX 209800 MIN 26560 ‡-15940
WTR YR 1976 MAX 56550 MIN 26560 ‡ +890

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07262500 FOURCHE LAFAVE RIVER NEAR NIMROD, AR

LOCATION.--Lat 34°57'02", long 93°09'16", in NW¼SW¼ sec.32, T.4 N., R.20 W., Perry County, on left bank 2,000 ft (610 m) downstream from Nimrod Dam, 4.5 mi (7.2 km) southwest of Nimrod, and 9.8 mi (15.8 km) upstream from South Fourche LaFave River, and at mile 62.2 (100.1 km).

DRAINAGE AREA.--684 mi^2 (1,772 km^2).

PERIOD OF RECORD.--March 1936 to current year.

REVISED RECORDS.--WSP 877: 1938. WSP 1311: 1937(M). WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 305.25 ft (93.040 m) above mean sea level (levels by Corps of Engineers). Mar. 3, 1936, to Dec. 20, 1938, nonrecording gage at site 1.1 mi (1.8 km) downstream at datum 3.92 ft (1.195 m) lower. Dec. 21, 1938, to Aug. 20, 1946, water-stage recorder at site 2.0 mi (3.2 km) downstream at datum 9.72 ft (2.963 m) lower.

REMARKS.--Records good. Flow regulated by Nimrod Lake, 2,000 ft (610 m) upstream, since 1942. (See station 07262000).

AVERAGE DISCHARGE.--40 years, 867 ft^3/s (24.6 m^3/s), 628,100 acre-ft/yr (774 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,100 ft^3/s (1,020 m^3/s) Feb. 19, 1938, gage height, 29.7 ft (9.05 m), site and datum them in use, and 27.6 ft (8.41 m), present site and datum, from floodmark; no flow at times in 1936, 1939, 1952. Maximum discharge since construction of Nimrod Dam in 1942, 20,000 ft^3/s (566 m^3/s) Apr. 1, 1945, gage height, 26.19 ft (7.983 m), site and datum then in use, and 16.47 ft (5.020 m), present site and datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1935 reached a stage of 28.8 ft (8.78 m), present site and datum, from information by Corps of Engineers, discharge, 39,000 ft^3/s (1,100 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,430 ft^3/s (97.1 m^3/s) Mar. 11, gage height, 7.50 ft (2.286 m); minimum daily, 9.5 ft^3/s (0.27 m^3/s) Dec. 4.

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	16	14	11	1230	205	305	757	28	214	49	51	30
2	15	14	10	1230	126	204	631	27	214	49	51	30
3	15	15	9.8	1220	69	204	377	27	214	50	51	31
4	15	14	9.5	1210	69	205	375	27	215	50	51	31
5	14	15	9.7	1200	69	206	375	27	215	50	51	31
6	13	15	19	1190	109	206	375	28	215	50	50	31
7	11	15	77	1180	201	205	375	27	214	50	50	31
8	11	15	473	1170	201	210	216	27	217	50	50	31
9	11	15	761	1160	172	105	123	27	221	50	49	30
10	12	15	755	1140	117	911	123	27	221	50	48	30
11	12	15	749	1130	117	2790	123	27	220	50	48	30
12	12	15	742	946	117	3370	123	29	207	50	48	30
13	12	15	735	555	117	3310	123	29	116	50	48	30
14	12	14	485	189	117	3250	123	29	47	50	48	30
15	12	14	353	117	118	3180	65	29	45	50	49	29
16	12	15	212	117	117	2600	30	137	44	50	49	29
17	11	15	120	114	119	1570	30	214	45	50	48	29
18	12	15	120	114	123	973	30	214	46	50	48	29
19	12	16	98	114	712	454	30	214	45	50	49	29
20	11	15	47	114	1170	275	29	214	46	50	49	29
21	11	14	47	114	1170	278	27	214	46	50	48	29
22	10	14	46	114	1170	350	27	214	33	51	48	29
23	10	14	46	114	1160	448	28	214	32	50	44	29
24	11	14	46	114	1150	453	28	214	33	50	31	29
25	11	14	47	116	1150	453	27	214	33	50	31	29
26	10	14	47	116	1140	452	28	108	33	50	30	29
27	9.7	13	46	230	1130	288	28	49	33	50	30	30
28	12	13	47	408	1110	156	28	107	33	50	30	30
29	15	13	34	408	795	124	28	216	38	50	30	30
30	14	12	399	408	---	124	28	214	49	51	30	30
31	14	---	1030	271	---	520	---	214	---	51	30	---
TOTAL	378.7	431	7631.0	17853	14140	28179	4710	3386	3384	1551	1368	894
MEAN	12.2	14.4	246	576	488	909	157	109	113	50.0	44.1	29.8
MAX	16	16	1030	1230	1170	3370	757	216	221	51	51	31
MIN	9.7	12	9.5	114	69	105	27	27	32	49	30	29
AC-FT	751	855	15140	35410	28050	55890	9340	6720	6710	3080	2710	1770

CAL YR 1975	TOTAL	342666.7	MEAN 939	MAX 4990	MIN 9.5	AC-FT	679700	
WTR YR 1976	TOTAL	83905.7	MEAN 229	MAX 3370	MIN 9.5	AC-FT	166400	

07263000 SOUTH FOURCHE LAFAVE RIVER NEAR HOLLIS, AR

LOCATION.--Lat 34°54'41", long 93°03'21", in SE¼NE¼ sec.18, T.3 N., R.19 W., Perry County, on left bank 0.8 mi (1.3 km) upstream from Big Cove Creek, 2.1 mi (3.4 km) downstream from Cedar Creek, 4.0 mi (6.4 km) northeast of Hollis, and at mile 5.6 (9.0 km).

DRAINAGE AREA.--210 mi^2 (544 km^2).

PERIOD OF RECORD.--May 1941 to current year.

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 366.10 ft (111.587 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--35 years, 293 ft^3/s (8.30 m^3/s), 18.86 in/yr (479 mm/yr), 212,300 acre-ft/yr (262 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,400 ft^3/s (1,540 m^3/s) Mar. 30, 1945, gage height, 19.47 ft (5.934 m), from rating curve extended above 31,000 ft^3/s (878 m^3/s) on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,800 ft^3/s (193 m^3/s) Dec. 29, gage height, 9.00 ft (2.743 m), no peaks above base of 9,000 ft^3/s (260 m^3/s); no flow Aug. 10-26.

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	4.0	.80	254	341	99	105	261	25	219	70	1.6	.10
2	3.5	.80	111	245	84	92	198	22	823	57	1.8	.40
3	3.0	1.3	66	192	71	80	157	19	390	48	1.7	3.6
4	2.7	2.5	48	153	63	70	130	17	207	149	1.4	21
5	2.5	3.0	46	126	63	71	110	16	142	217	1.1	15
6	2.4	2.8	1030	108	77	121	96	19	211	133	.80	9.5
7	2.0	3.4	501	99	79	120	82	25	240	79	.50	6.6
8	1.5	3.2	213	86	77	1950	71	23	153	54	.30	5.3
9	1.3	2.8	138	71	70	3370	61	21	103	40	.10	5.1
10	1.1	2.7	103	62	63	1170	53	21	74	30	0	4.4
11	1.0	2.5	80	59	62	608	47	18	57	24	0	3.7
12	.80	2.4	65	58	62	425	43	16	43	20	0	3.2
13	.80	2.3	56	54	62	303	41	520	35	17	0	2.9
14	.70	2.2	47	50	61	237	38	351	28	15	0	2.4
15	.60	2.1	45	46	57	204	36	188	24	13	0	2.5
16	.50	2.0	48	40	54	173	32	167	55	12	0	3.7
17	.50	2.0	54	37	1820	144	28	152	41	10	0	3.7
18	.30	1.8	54	34	3160	124	28	108	45	8.7	0	3.2
19	.30	2.1	43	32	866	110	38	76	75	7.6	0	2.9
20	.30	32	37	34	491	126	103	57	49	6.4	0	3.8
21	.20	112	33	34	580	182	146	45	35	5.7	0	4.4
22	.20	55	30	34	531	146	124	36	27	4.9	0	3.2
23	.20	34	28	33	329	112	79	31	22	4.0	0	2.9
24	.30	23	27	32	261	94	60	966	111	3.2	0	2.5
25	.60	19	36	220	222	84	64	226	2780	2.7	0	2.1
26	1.0	17	86	556	189	77	52	109	1150	2.4	0	1.9
27	1.0	17	185	288	155	70	41	387	644	2.1	1.0	1.8
28	1.0	16	352	202	130	70	36	681	229	1.7	1.5	1.7
29	1.0	16	4430	162	116	566	32	306	137	1.5	.60	1.6
30	1.0	132	1250	134	---	628	28	172	99	1.3	.20	1.5
31	1.0	---	570	116	---	373	---	172	---	1.2	.10	---
TOTAL	37.30	515.70	10066	3738	9954	12005	2315	4992	8248	1041.4	12.70	126.60
MEAN	1.20	17.2	325	121	343	387	77.2	161	275	33.6	.41	4.22
MAX	4.0	132	4430	556	3160	3370	261	966	2780	217	1.8	21
MIN	.20	.80	27	32	54	70	28	16	22	1.2	0	.10
CFSM	.005	.08	1.55	.58	1.63	1.84	.37	.77	1.31	.16	.001	.02
IN.	.007	.09	1.78	.66	1.76	2.13	.41	.88	1.46	.18	.002	.02
AC-FT	74	1020	19970	7410	19740	23810	4590	9900	16360	2070	25	251

CAL YR 1975 TOTAL 119366.10 MEAN 327 MAX 16800 MIN 0 CFSM 1.56 IN 21.14 AC-FT 236800
WTR YR 1976 TOTAL 53051.70 MEAN 145 MAX 4430 MIN 0 CFSM .69 IN 9.40 AC-FT 105200

07263150 FOURCHE LAFAVE RIVER NEAR BIGELOW, AR

LOCATION.--Lat 34°58'42", long 92°38'54", in NE¼ sec.24, T.4 N., R.16 W., Perry County, at bridge on State Highway 113, 1.8 mi (2.8 km) southwest of Bigelow, and at mile 5.1 (8.2 km).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)
OCT										
08...	9827	9827	47	7.1	25.0	21.0	30	25	6.1	68
NOV										
05...	9827	9827	65	7.1	24.0	21.0	40	20	8.1	90
DEC										
01...	9827	9827	62	7.2	8.0	9.0	30	20	8.7	75
JAN										
06...	9827	9827	45	7.2	9.0	6.0	30	15	12.1	96
FEB										
03...	9827	9827	38	7.0	12.0	8.0	60	30	11.1	93
MAR										
02...	9827	9827	41	6.8	26.0	20.0	40	30	9.1	98
APR										
06...	9827	9827	41	6.8	22.0	14.0	55	35	9.1	88
MAY										
04...	9827	9827	69	7.0	25.0	20.0	35	20	8.5	92
JUN										
01...	9827	9827	56	6.7	27.0	23.0	160	150	6.6	76
JUL										
06...	9827	9827	749	7.7	33.0	25.0	30	30	7.7	92
AUG										
03...	9827	9827	69	7.2	31.0	--	80	70	3.3	--
31...	9827	9827	76	7.2	31.0	26.0	70	45	3.4	41

DATE	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)
OCT										
08...	1.1	100	36	--	--	--	--	--	--	--
NOV										
05...	2.6	270	68	--	--	--	--	--	--	--
DEC										
01...	2.0	900	640	570	22	0	4.0	10	3.0	4.9
JAN										
06...	2.6	75	53	27	--	--	--	--	--	--
FEB										
03...	1.9	110	24	13	14	4	2.0	4	2.0	2.8
MAR										
02...	1.7	140	40	--	--	--	--	--	--	--
APR										
06...	2.0	210	24	20	--	--	--	--	--	--
MAY										
04...	3.2	--	28	--	28	10	4.0	10	4.0	5.5
JUN										
01...	2.4	1000	840	--	--	--	--	--	--	--
JUL										
06...	3.0	140	25	55	--	--	--	--	--	--
AUG										
03...	1.8	<20	25	25	22	0	5.0	12	2.0	4.9
31...	1.5	60	25	--	--	--	--	--	--	--

07263150 FOURCHE LAFAVE RIVER NEAR BIGELOW, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)
OCT										
08...	--	--	--	--	--	8.0	6.5	49	32	81
NOV										
05...	--	--	--	--	--	2.0	50	56	20	76
DEC										
01...	1.6	29	0	24	2.9	4.0	6.5	36	26	62
JAN										
06...	--	--	--	--	--	4.0	5.5	29	2	31
FEB										
03...	1.1	12	0	10	1.9	3.0	5.5	59	3	62
MAR										
02...	--	--	--	--	--	3.0	5.5	37	32	69
APR										
06...	--	--	--	--	--	1.0	5.5	30	89	119
MAY										
04...	1.6	22	0	18	3.5	4.0	9.0	52	0	52
JUN										
01...	--	--	--	--	--	3.0	6.5	75	82	157
JUL										
06...	--	--	--	--	--	48	140	395	26	421
AUG										
03...	2.1	28	0	23	2.8	1.0	5.5	75	57	132
31...	--	--	--	--	--	7.0	7.5	71	32	103

DATE	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT										
08...	.11	.03	--	<10	0	<10	1300	100	190	10
NOV										
05...	.13	.08	--	--	--	<10	1100	--	150	20
DEC										
01...	.15	.02	<3	<10	0	<10	1200	30	150	<10
JAN										
06...	.10	.03	--	--	--	<10	630	270	84	20
FEB										
03...	.10	.02	<3	<10	<3	<10	1200	60	110	<10
MAR										
02...	.11	.06	--	--	--	<10	1500	20	170	20
APR										
06...	.10	.07	--	--	--	<10	1800	20	200	<10
MAY										
04...	<.10	.02	<3	<10	<3	<10	1300	20	260	20
JUN										
01...	.44	.18	--	--	--	<10	4000	60	240	60
JUL										
06...	.18	.08	--	--	--	<10	1200	50	460	50
AUG										
03...	.27	.07	<3	<10	<3	<10	3700	40	1500	20
31...	<.10	.14	--	<10	--	<10	1900	20	600	20

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, AR

LOCATION.--Lat 34°47'27", long 92°21'32", in sec.23, T.2 N., R.13 W., Pulaski County, in Murray Dam control house on right bank and at mile 141.5 (227.7 km).

DRAINAGE AREA.--158,030 mi^2 (409,300 km^2), of which 22,241 mi^2 (57,604 km^2) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1927 to current year. Prior to October 1969, published as 07263500 Arkansas River at Little Rock. Monthly discharge only for some periods, published in WSP 1311. Gage-height records collected at or near former site since 1873 are contained in reports of National Weather Service. Gage-height records collected at site 5.5 mi (8.8 km) downstream since 1883, and intermittent records of discharge since 1885 are contained in reports of Mississippi River Commission.

GAGE.--Water-stage and gate position recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, Oct. 1, 1934, to May 9, 1970, recording gage at site 6.2 mi (10.0 km) downstream at datum 223.61 ft (68.156 m) higher. Sept. 20, 1968, to May 9, 1970, auxiliary water-stage recorder 5.5 mi (8.8 km) upstream from former gage.

REMARKS.--Records good. Beginning May 10, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Two discharge measurements furnished by Corps of Engineers.

AVERAGE DISCHARGE.--49 years, 41,500 ft^3/s (1,180 m^3/s), 30,070,000 acre-ft/yr (37,080 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 536,000 ft^3/s (15,200 m^3/s) May 27, 1943, gage height, 30.05 ft (9.159 m), site and datum then in use; minimum, 850 ft^3/s (24.1 m^3/s) Aug. 23, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1833 reached a stage of 34.6 ft (10.55 m) former site and datum. Flood of Apr. 20, 1927, reached a stage of 33.0 ft (10.06 m), former site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 149,000 ft^3/s (4,220 m^3/s) Apr. 23, tailwater elevation, 243.53 ft (74.228 m); minimum daily discharge, 1,160 ft^3/s (32.9 m^3/s) Sept. 4.

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	13100	5060	6860	31600	7640	9850	22400	59400	51200	25700	18900	11700
2	11800	4130	16300	29900	6440	12300	25600	63200	55900	25100	12400	6940
3	5190	2830	10200	28000	16300	13000	19200	54900	62800	25100	19100	5040
4	5100	8950	3500	21900	12500	23000	21700	52400	54800	44400	26400	1160
5	9530	11400	10400	27500	7240	15300	17100	47400	47400	52800	23000	4720
6	6210	11400	30900	34300	6590	10100	10100	41000	48800	68900	15200	2430
7	11500	11500	40500	27700	6460	5810	20300	43500	39600	88500	13200	1510
8	9440	7850	42500	30600	4300	15000	20200	44700	29200	92300	3810	7430
9	10100	9930	29900	29300	6540	48100	12600	49700	27000	92500	8360	8780
10	10100	5810	19300	26300	10800	71500	6500	49800	27200	94800	16700	9270
11	3970	9330	13900	28700	4310	70100	4790	43100	35700	95700	11100	1770
12	3380	11800	13200	30500	9340	63800	9650	39700	24400	93800	7620	3040
13	15800	16700	10100	19200	5800	56800	14600	48400	10700	95600	10300	2530
14	18300	13000	4250	3260	4590	43900	13800	59700	9110	94400	6120	3060
15	15200	5170	21100	5120	3020	46600	15100	72300	22100	92300	2910	7590
16	15500	2980	26900	13200	3980	41900	13000	67500	18200	94100	8720	12600
17	8150	2970	20500	6920	12100	37100	6180	56700	18500	93900	14600	9530
18	2940	3370	26900	3210	33200	27500	3800	49900	21600	90500	15400	5210
19	5300	12200	26200	3240	38700	20000	19300	49500	16200	68600	14500	5700
20	7160	13100	19100	14900	24800	35100	49800	55200	7720	58600	11200	9190
21	8770	15000	7090	13600	16700	38800	93600	47500	16000	57100	3690	12900
22	10500	7690	7290	3460	16200	34800	134000	42300	16500	51600	3210	10900
23	8450	3560	22000	5900	18700	25700	144000	40500	20500	43600	6680	4220
24	10100	6000	6820	5190	17400	18000	141000	42900	28900	42600	12400	2350
25	13300	16800	2890	8110	16700	24700	110000	37300	58600	42200	12400	4290
26	6450	19000	4690	10600	11400	22600	77100	35900	57400	42000	12400	2770
27	4880	6820	4690	16200	9920	14600	64900	44400	62300	36100	13000	3650
28	8390	6900	6100	16500	6980	3380	63700	41900	52800	35900	9110	5040
29	7540	5510	39900	16500	7340	18500	54100	42600	40800	33500	3650	5790
30	8760	4580	53400	13600	---	27000	54800	47400	35400	31100	5160	10500
31	4970	---	42900	5490	---	27100	---	50800	---	24200	6360	---
TOTAL	279880	261340	590280	530500	345990	923940	1262920	1521500	1017330	1927500	347600	181610
MEAN	9028	8711	19040	17110	11930	29800	42100	49080	33910	62180	11210	6054
MAX	18300	19000	53400	34300	38700	71500	144000	72300	62800	95700	26400	12900
MIN	2940	2830	2890	3210	3020	3380	3800	35900	7720	24200	2910	1160
AC-FT	555100	518400	1171000	1052000	686300	1833000	2505000	3018000	2018000	3823000	689500	360200

CAL YR 1975 TOTAL 20922460 MEAN 57320 MAX 221000 MIN 2750 AC-FT 41500000
WTR YR 1976 TOTAL 9190390 MEAN 25110 MAX 144000 MIN 1160 AC-FT 18230000

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1968 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: October 1968 to September 1975.

COOPERATION.--Chemical records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark. Sediment records furnished by Corps of Engineers, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,410 mg/L Oct. 29, 1970; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 1,430,000 tons (1,297,000 tonnes) Oct. 29, 1970; minimum daily, 0 tons (0 tonnes) on many days.

EXTREMES FOR 1975 WATER YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 760 mg/L Nov. 12-13; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 484,000 tons (439,000 tonnes) Nov. 12-13; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DIS-CHARGE (CFS) (00060)	INSTAN-TANEOUS DIS-CHARGE (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER-ATURE (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)
OCT										
01...	9827	9827	--	--	470	8.1	18.0	22.0	--	10
29...	9827	9827	--	--	616	8.1	19.0	19.0	10	8
DEC										
02...	9827	9827	--	--	471	8.1	16.0	10.0	10	15
JAN										
07...	9827	9827	27700	--	--	8.1	--	--	30	--
FEB										
04...	9827	9827	12500	--	272	7.8	12.0	9.0	60	25
MAR										
03...	9827	9827	--	12200	228	7.6	20.0	16.0	35	15
APR										
08...	9827	9827	20200	--	--	8.1	23.0	19.0	45	20
23...	1028	1028	--	135000	--	--	31.5	20.5	--	--
JUN										
03...	9827	9827	--	--	874	8.0	21.0	23.0	25	40
JUL										
01...	9827	9827	--	--	736	7.9	30.0	28.0	35	25
12...	1028	1028	--	95100	--	--	35.0	29.0	--	--
AUG										
03...	9827	9827	--	--	482	8.2	29.0	30.0	20	20
SEP										
09...	9827	9827	--	--	489	8.5	24.0	27.0	15	6

DATE	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)
OCT										
01...	9.2	104	1.2	--	10	<10	130	32	38	96
29...	8.1	87	1.0	340	10	5	--	--	--	--
DEC										
02...	11.2	99	1.4	70	<7	--	--	--	--	--
JAN										
07...	11.8	--	1.9	20	120	56	82	13	--	--
FEB										
04...	11.3	97	2.4	100	9	--	--	--	--	--
MAR										
03...	8.9	89	1.3	65	12	--	--	--	--	--
APR										
08...	10.2	109	2.3	60	8	--	90	25	27	68
23...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	7.7	89	1.6	420	300	--	--	--	--	--
JUL										
01...	6.9	87	--	--	14	--	120	40	34	86
12...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	7.5	99	1.9	<20	<4	<4	--	--	--	--
SEP										
09...	8.0	99	1.5	70	25	--	--	--	--	--

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)
OCT										
01...	7.0	57	3.9	120	0	98	1.5	55	--	277
29...	--	--	--	--	--	--	--	120	120	423
DEC										
02...	--	--	--	--	--	--	--	40	72	307
JAN										
07...	--	33	3.3	84	0	69	1.1	20	50	192
FEB										
04...	--	--	--	--	--	--	--	18	37	168
MAR										
03...	--	--	--	--	--	--	--	14	32	130
APR										
08...	5.0	--	--	79	0	65	1.0	19	88	282
23...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	--	--	--	--	--	--	--	74	160	478
JUL										
01...	9.0	--	--	98	0	80	2.0	46	140	422
12...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	39	62	275
SEP										
09...	--	--	--	--	--	--	--	34	65	272

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)
OCT										
01...	20	297	<.10	--	--	--	--	--	460	60
29...	11	434	.11	.06	--	--	--	<10	320	--
DEC										
02...	7	314	.27	.04	--	--	--	70	370	40
JAN										
07...	23	215	.26	.05	<3	<10	<3	20	810	120
FEB										
04...	8	176	.33	.05	--	--	--	10	960	80
MAR										
03...	22	152	.25	.05	--	--	--	<10	910	70
APR										
08...	8	290	.10	.07	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	9	487	.31	.07	--	--	--	<10	1200	60
JUL										
01...	40	462	.21	.06	<3	--	--	<10	850	20
12...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	17	292	.30	.08	--	--	--	10	690	30
SEP										
09...	10	282	<.10	.04	--	<10	--	20	170	10

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT										
01...	380	<10	--	--	--	--	--	--	--	--
29...	120	40	--	--	--	--	--	--	--	--
DEC										
02...	95	<10	.00	.00	.00	.00	.00	.00	.00	<1
JAN										
07...	110	30	--	--	--	--	--	--	--	--
FEB										
04...	110	20	--	--	--	--	--	--	--	--
MAR										
03...	130	20	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	290	20	--	--	--	--	--	--	--	--
JUL										
01...	790	<10	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	290	20	--	--	--	--	--	--	--	--
SEP										
09...	120	20	--	--	--	--	--	--	--	--

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, AR--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	25900	20	1400	65600	90	15900	166000	480	215000
2	15700	10	424	106000	240	68700	157000	440	187000
3	20500	10	553	128000	330	114000	117000	280	88500
4	8250	10	223	145000	390	153000	74100	120	24000
5	12600	10	340	166000	480	215000	61500	70	11600
6	17400	10	470	184000	550	273000	65000	80	14000
7	12400	10	335	190000	570	292000	74500	120	24100
8	23300	10	629	196000	600	318000	107000	240	69300
9	28100	20	1520	198000	610	326000	112000	260	78600
10	25000	20	1350	201000	620	336000	99300	210	56300
11	11500	10	310	216000	680	397000	83900	150	34000
12	5430	0	0	236000	760	484000	76400	120	24800
13	7520	0	0	236000	760	484000	83000	150	33600
14	7300	0	0	222000	700	420000	93400	190	47900
15	28400	20	1530	199000	610	328000	95700	200	51700
16	31300	20	1690	187000	560	283000	89600	170	41100
17	31900	20	1720	178000	530	255000	76900	130	27000
18	29100	20	1570	164000	470	208000	61700	70	11700
19	31200	20	1680	167000	480	216000	69400	100	18700
20	13700	10	370	165000	470	209000	69500	100	18800
21	7690	0	0	161000	460	200000	69000	100	18600
22	21800	10	589	159000	450	193000	67800	90	16500
23	14400	10	389	158000	450	192000	67000	90	16300
24	18900	10	510	173000	510	238000	62900	80	13600
25	11400	10	308	190000	570	292000	67200	90	16300
26	15300	10	413	187000	560	283000	68000	90	16500
27	20400	10	551	181000	540	264000	60800	70	11500
28	11300	10	305	179000	530	256000	56800	60	9200
29	35400	20	1910	174000	510	240000	59300	70	11200
30	42300	30	3430	169000	490	224000	59200	70	11200
31	50300	40	5430	---	---	---	62200	80	13400
TOTAL	635690	---	29949.00	5280600	---	7777600	2533100	---	1232000

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	64000	80	13800	82700	150	33500	138000	370	138000
2	68600	100	18500	114000	270	83100	142000	380	146000
3	79800	140	30200	130000	330	116000	138000	370	138000
4	78800	130	27700	134000	350	127000	129000	330	115000
5	76100	120	24700	125000	310	105000	126000	320	109000
6	80700	140	30500	118000	290	92400	129000	330	115000
7	74200	120	24000	113000	270	82400	125000	310	105000
8	71600	110	21300	114000	270	83100	120000	290	94000
9	63000	80	13600	120000	290	94000	117000	280	88500
10	71700	110	21300	109000	240	70600	119000	290	93200
11	94900	190	48700	104000	230	64600	119000	290	93200
12	86600	160	37400	102000	220	60600	119000	290	93200
13	84500	150	34200	99600	210	56500	132000	340	121000
14	79900	140	30200	93800	190	48100	145000	390	153000
15	74500	120	24100	97500	200	52700	149000	410	165000
16	65300	90	15900	94700	190	48600	143000	390	151000
17	57200	60	9270	91900	180	44700	132000	340	121000
18	64800	80	14000	83800	150	33900	127000	320	110000
19	65000	80	14000	74500	120	24100	143000	390	151000
20	62500	80	13500	64600	80	14000	147000	400	159000
21	60100	70	11400	60400	70	11400	143000	390	151000
22	53700	50	7250	63700	80	13800	136000	360	132000
23	40000	30	3240	98400	210	55800	133000	350	126000
24	35100	20	1900	156000	440	185000	138000	370	138000
25	38800	30	3140	167000	480	216000	135000	350	128000
26	39800	30	3220	152000	420	172000	128000	330	114000
27	44500	30	3600	133000	350	126000	121000	300	98000
28	37700	30	3050	133000	350	126000	157000	440	187000
29	35800	20	1930	---	---	---	220000	690	410000
30	33400	20	1800	---	---	---	221000	700	418000
31	43300	30	3510	---	---	---	210000	650	369000
TOTAL	1925900	---	510910	3029600	---	2240900	4381000	---	4730100

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, AR--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	184000	550	273000	57100	60	9250	101000	210	57300
2	164000	470	208000	58600	60	9490	98300	210	55700
3	158000	450	192000	83600	150	33900	93900	190	48200
4	155000	430	180000	105000	230	65200	85000	160	36700
5	154000	430	179000	114000	270	83100	88300	170	40500
6	150000	410	166000	105000	230	65200	90100	180	43800
7	127000	320	110000	86100	160	37200	90000	170	41300
8	109000	250	73600	87900	170	40300	99100	210	56200
9	97800	200	52800	95800	200	51700	107000	240	69300
10	89200	170	40900	88700	170	40700	111000	260	77900
11	98900	210	56100	77100	130	27100	93400	190	47900
12	97200	200	52500	75600	120	24500	84700	150	34300
13	90500	180	44000	72300	110	21500	96000	200	51800
14	82200	150	33300	58600	60	9490	103000	230	64000
15	82400	150	33400	71300	110	21200	108000	250	72900
16	82200	150	33300	70200	100	19000	118000	290	92400
17	80400	140	30400	61700	70	11700	121000	300	98000
18	68400	100	18500	70800	100	19100	130000	330	116000
19	62000	70	11700	72000	110	21400	135000	350	128000
20	63800	80	13800	70200	100	19000	135000	350	128000
21	54200	50	7320	72600	110	21600	139000	370	139000
22	53400	50	7210	71300	110	21200	136000	360	132000
23	53100	50	7170	71300	110	21200	128000	330	114000
24	52500	50	7090	66200	90	16100	125000	310	105000
25	57500	60	9310	58400	60	9460	128000	330	114000
26	74700	120	24200	64500	80	13900	127000	320	110000
27	76000	120	24600	67300	90	16400	126000	320	109000
28	77200	130	27100	81200	140	30700	121000	300	98000
29	65400	90	15900	100000	210	56700	101000	220	60000
30	58200	60	9430	98800	210	56000	70600	100	19100
31	---	---	---	99500	210	56400	---	---	---
TOTAL	2818200	---	1941630	2432700	---	949690	3289400	---	2360300

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	73000	110	21700	27000	20	1460	4590	0	0
2	74700	120	24200	9990	10	270	5850	0	0
3	52100	50	7030	15000	10	405	25600	20	1380
4	43000	30	3480	10500	10	283	23600	20	1270
5	46800	40	5050	18800	10	508	22700	10	613
6	38100	30	3090	18700	10	505	3370	0	0
7	39200	30	3180	20400	10	551	3290	0	0
8	36600	30	2960	15400	10	416	3560	0	0
9	37600	30	3050	13500	10	364	9320	10	252
10	46600	40	5030	15200	10	410	17400	10	470
11	38300	30	3100	9880	10	267	20400	10	551
12	34700	20	1870	21100	10	570	9910	10	268
13	26700	20	1440	13400	10	362	2810	0	0
14	22600	10	610	12400	10	335	2870	0	0
15	22500	10	607	9760	10	264	2750	0	0
16	22100	10	597	16400	10	443	5830	0	0
17	25200	20	1360	29400	20	1590	12500	10	337
18	26000	20	1400	26000	20	1400	18700	10	505
19	16900	10	456	21100	10	570	21300	10	575
20	15900	10	429	21900	10	591	44000	30	3560
21	19700	10	532	19000	10	513	33800	20	1830
22	20100	10	543	15300	10	413	25000	10	675
23	22900	10	618	15200	10	410	25500	10	688
24	17900	10	483	4470	0	0	20500	10	553
25	11000	10	297	11400	10	308	33800	20	1830
26	5990	0	0	18300	10	494	33000	20	1780
27	3720	0	0	21600	10	583	23100	10	624
28	11200	10	302	23800	20	1290	16000	10	432
29	15200	10	410	18200	10	491	7750	0	0
30	24600	20	1330	15400	10	416	3120	0	0
31	29200	20	1580	3630	0	0	---	---	---
TOTAL	920110	---	96734.00	512130	---	16482.00	481920	---	18193.00

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR
(National radiochemical station)
(National stream-quality accounting network station)

LOCATION.--Lat 34°40'07", long 92°09'18", sec.35, T.1 N., R.11 W., Pulaski County, at upper end of upstream wall at David D. Terry Lock and Dam, 10.7 mi (17.2 km) downstream from Main Street bridge at Little Rock, and at mile 124.2 (199.8 km).

DRAINAGE AREA.--158,288 mi^2 (409,966 km^2), of which 22,241 mi^2 (57,604 km^2) is probably noncontributing.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1970 to current year.
pH: April 1970 to current year.
WATER TEMPERATURES: October 1969 to current year.
DISSOLVED OXYGEN: October 1969 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1969.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument. Monitor records are insufficient to report extremes. Discharge figures are for station 07263450, 16.8 mi (26.0 km) upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)
OCT												
01-21	1028	1028	--	--	--	--	--	--	--	--	--	--
21...	1028	1028	4700	627	7.9	20.0	8	1100	B13	150	32	40
NOV												
10...	1028	1028	2990	708	7.3	18.0	4	2000	B8	170	48	50
10-30	1028	1028	--	--	--	--	--	--	--	--	--	--
DEC												
01-09	1028	1028	--	--	--	--	--	--	--	--	--	--
09...	1028	1028	33300	445	7.6	8.0	25	870	380	120	28	35
JAN												
15...	1028	1028	5010	392	7.8	5.0	15	B680	B37	93	22	26
FEB												
17...	1028	1028	3970	340	7.7	10.5	8	1400	88	86	15	26
MAR												
10...	1028	1028	68500	318	7.7	12.0	36	1500	960	78	13	23
APR												
06...	1028	1028	8900	446	7.9	19.0	12	310	B30	90	28	24
MAY												
10...	1028	1028	45700	318	7.1	18.5	20	580	B40	110	25	29
JUN												
07...	1028	1028	38900	786	8.4	23.0	25	660	B43	130	42	35
JUL												
01...	1028	1028	22700	687	7.9	26.5	20	B4100	180	120	45	34
AUG												
02...	1028	1028	6970	456	7.9	28.5	10	--	--	140	44	42
02-30	1028	1028	--	--	--	--	--	--	--	--	--	--
30...	1028	1028	5980	503	7.5	27.0	7	420	B13	130	32	39
SEP												
27...	1028	1028	3900	488	8.0	24.5	4	520	B4	--	--	--

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM AD-SORP-TION RATIO (00931)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L) (00935)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)
OCT											
01-21	--	--	--	--	--	--	--	--	--	--	--
21...	11	65	49	2.3	3.8	138	0	113	2.8	44	99
NOV											
10...	11	78	49	2.6	4.2	149	0	122	12	58	120
10-30	--	--	--	--	--	--	--	--	--	--	--
DEC											
01-09	--	--	--	--	--	--	--	--	--	--	--
09...	8.3	37	39	1.5	3.5	114	0	94	4.6	30	55
JAN											
15...	6.7	37	46	1.7	2.8	86	0	71	2.2	30	56
FEB											
17...	5.1	30	42	1.4	2.6	87	0	71	2.8	25	44
MAR											
10...	4.9	28	43	1.4	2.6	79	0	65	2.5	27	40
APR											
06...	7.2	50	54	2.3	2.5	75	0	62	1.5	28	79
MAY											
10...	8.0	28	36	1.2	2.9	98	0	80	12	30	41
JUN											
07...	9.8	100	62	3.9	2.9	105	0	86	.7	48	160
JUL											
01...	8.5	82	59	3.3	2.8	91	0	75	1.8	42	140
AUG											
02...	7.7	43	40	1.6	3.5	113	0	93	2.3	45	62
02-30	--	--	--	--	--	--	--	--	--	--	--
30...	8.7	50	44	1.9	3.7	124	0	102	6.3	39	69
SEP											
27...	8.4	46	--	--	3.8	116	0	95	1.9	34	67

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT											
01-21	--	--	--	--	--	--	--	--	--	--	--
21...	.2	.3	343	331	.47	4350	.03	.08	.11	.49	.07
NOV											
10...	.3	.4	365	395	.50	2950	.03	.86	.89	3.9	.07
10-30	--	--	--	--	--	--	--	--	--	--	--
DEC											
01-09	--	--	--	--	--	--	--	--	--	--	--
09...	.2	3.7	243	229	.33	21800	.22	4.6	4.8	21	.09
JAN											
15...	.2	3.2	216	204	.29	2920	.31	.54	.85	3.8	.07
FEB											
17...	.2	.8	178	177	.24	1910	.12	.87	.99	4.4	.07
MAR											
10...	.2	2.2	167	167	.23	30900	.15	.95	1.1	4.9	.10
APR											
06...	.2	1.2	246	229	.33	5910	.01	.86	.87	3.9	.07
MAY											
10...	.2	2.6	191	190	.26	23600	.32	.31	.63	2.8	.10
JUN											
07...	.2	3.5	442	411	.60	46400	.18	.43	.61	2.7	.08
JUL											
01...	.4	48	380	403	.52	23300	.19	.47	.66	2.9	.10
AUG											
02...	.2	4.0	268	263	.36	5040	.38	.42	.80	3.5	.10
02-30	--	--	--	--	--	--	--	--	--	--	--
30...	.3	2.7	265	274	.36	4280	.02	.46	.48	2.1	.08
SEP											
27...	.3	3.0	270	--	.37	2840	.15	.96	1.1	4.9	.11

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
OCT 21...	1	1	0	0	0	0	30	30	0	50	48
JAN 15...	1	1	0	<10	<9	1	0	0	0	<50	<50
APR 06...	0	0	0	<10	<10	0	10	0	10	<50	<50
JUL 01...	--	--	1	0	0	0	<10	<9	1	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT 21...	2	30	26	4	300	10	<10	0	1	70	60
JAN 15...	0	20	14	6	600	30	<100	<100	0	60	60
APR 06...	0	10	5	5	670	20	<100	<99	1	110	110
JUL 01...	0	10	6	4	1100	70	9	9	0	70	50

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS-PENDED MERCURY (HG) (UG/L) (71895)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
OCT 21...	10	.0	.0	.0	0	0	0	40	30	10
JAN 15...	0	.0	.0	.0	0	0	0	20	20	0
APR 06...	0	.0	.0	.0	0	0	0	50	50	0
JUL 01...	20	.4	.1	.3	0	0	0	30	20	10

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS-PENDED GROSS BETA AS CS-137 (PC/L) (03516)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L) (80060)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS-SOLVED URANIUM (U) (UG/L) (80020)
APR 06...	<3.1	1.1	4.3	1.0	3.4	.8	.07	.40

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	SUS-PENDED SEDI-MENT (MG/L) (80154)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT				
21...	4.1	--	--	--
NOV				
10...	--	14	113	83
DEC				
09...	--	38	3420	92
JAN				
15...	--	26	352	93
FEB				
17...	--	14	150	96
MAR				
10...	--	87	16100	96
APR				
06...	5.0	24	577	84
MAY				
10...	--	44	5430	96
JUN				
07...	--	36	3780	91
JUL				
01...	--	39	2390	93
AUG				
02...	--	24	452	93
30...	--	38	614	91
SEP				
27...	--	13	137	89

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCT. 21, 1975
1200 HOURS

IDENTIFICATION OF PHYTOPLANKTON

6,100 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...HYDRODICTYACEAE			
L	....PEDIASTRUM			0
	...OOCYSTACEAE			
	....ANKISTRODESMUS		100	2
L	....DICTYOSPHAERIUM			0
	...SCENEDESMACEAE			
D	....SCENEDESMUS		1,600	27
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
L	....CHLAMYDOMONAS			0
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
L	....EUASTRUM			0
		TOTALS	1,700	29
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,000	17
	....MELOSIRA		310	5
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0
	...NITZSCHIACEAE			
D	....NITZSCHIA		3,000	48
		TOTALS	4,300	70
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE		
	..HETEROCOCCALES			
	...CHLOROTHECIACEAE			
L	....OPHIOCYTIUM			0
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
L	....AGMENELLUM			0
L	....ANACYSTIS			0
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....EUGLENA			0
	....TRACHELOMONAS		100	2
		TOTALS	100	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.974
CLASS	0.974
ORDER	1.599
FAMILY	1.690
GENERA	1.859

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NOV. 10, 1975
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

56,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		390	1
L	....DICTYOSPHAERIUM			0
L	....OOCYSTIS			0
	....SELENASTRUM		390	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		2,300	4
	....TETRASTRUM		1,500	3
	...OOCYSTACEAE			
	....GLOEOACTINIUM		5,400	10
		TOTALS	10,000	19
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		6,600	12
	....MELOSIRA		770	1
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....COCCONEIS		390	1
	...NAVICULACEAE	NAVICULOID		
	....GYROSIGMA		390	1
	...NITZSCHIACEAE			
D	....NITZSCHIA		9,700	17
		TOTALS	18,000	32
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....AGMENELLUM		25,000	44
	....ANACYSTIS		3,100	6
		TOTALS	28,000	50

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.472
CLASS	1.472
ORDER	1.784
FAMILY	2.104
GENERA	2.501

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DEC. 9, 1975
1230 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,300 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		220	10
	...SCENEDESMACEAE			
D	....SCENEDESMUS		440	19
		TOTALS	660	29
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		880	39
D	....MELOSIRA		440	19
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		290	13
		TOTALS	1,600	71

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.869
CLASS 0.869
ORDER 1.355
FAMILY 1.621
GENERA 2.154

JAN. 15, 1976
1400 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,500 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		3,900	86
	....MELOSIRA		410	9
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		210	5
		TOTALS	4,500	100

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.267
FAMILY 0.267
GENERA 0.700

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

FEB. 17, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

36,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...COELASTRACEAE			
L	....COELASTRUM			0
	...OOCYSTACEAE			
	....ANKISTRODESMUS		790	2
	....DICTYOSPHAERIUM		2,600	7
	....DIMORPHOCOCCUS		1,400	4
	....KIRCHNERIELLA		520	1
	....OOCYSTIS		350	1
	....WESTELLA		350	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		350	1
L	....TETRASTRUM			0
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
L	....CHLAMYDOMONAS			0
		TOTALS	6,600	17
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		27,000	77
	....MELOSIRA		870	2
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
L	....CYMBELLA			0
	...DIATOMACEAE			
L	....DIATOMA			0
	...FRAGILARIACEAE			
L	....ASTERIONELLA			0
	...NAVICULACEAE	NAVICULOID		
L	....GYROSIGMA			0
L	....NAVICULA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		350	1
		TOTALS	29,000	80
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
L	....GOMPHOSPHAERIA			0
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
L	....LYNGBYA			0
L	....OSCILLATORIA			0
		TOTALS	170	0
	EUGLENOPHYTA	EUGLENOIDS		
	.CRYPTOPHYCEAE	CRYPTOMONADS		
	..CRYPTOMONIDALES			
	...CRYPTOCHRYSIDACEAE			
L	....CHROOMONAS			0
		TOTALS	87	0
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....EUGLENA			0
		TOTALS	87	0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.774
CLASS	0.779
ORDER	0.917
FAMILY	0.990
GENERA	1.515

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 10, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

9,900 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...COELASTRACEAE			
	....COELASTRUM		1,400	14
	...OOCYSTACEAE			
	....ANKISTRODESMUS		430	4
	...SCENEDESMACEAE			
	....SCENEDESMUS		350	4
	....TETRALLANTOS		1,400	14
	....TETRASTRUM		350	4
		TOTALS	3,900	40
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		2,200	22
	....MELOSIRA		860	9
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		87	1
	...CYMBELLACEAE			
	....AMPHORA		87	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		87	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		87	1
	...NITZSCHIACEAE			
	....NITZSCHIA		87	1
	...SURIRELLACEAE			
L	....SURIRELLA			0
		TOTALS	3,500	36
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		2,500	25
		TOTALS	2,500	25

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.562
CLASS	1.562
ORDER	1.753
FAMILY	2.394
GENERA	2.922

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APR. 6, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

27,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...SCENEDESMACEAE				
	....SCENEDESMUS			1,400	5
			TOTALS	1,400	5
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			19,000	72
	....MELOSIRA			2,200	8
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			720	3
	...NITZSCHIACEAE				
	....NITZSCHIA			3,200	12
			TOTALS	25,000	95

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.303
CLASS 0.303
ORDER 0.897
FAMILY 0.999
GENERA 1.377

MAY 10, 1976
1230 HOURS

IDENTIFICATION OF PHYTOPLANKTON

9,600 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....ANKISTRODESMUS			160	2
	....DICTYOSPHAERIUM			620	6
	....KIRCHNERIELLA			160	2
	....TREUBARIA			160	2
	...SCENEDESMACEAE				
D	....CRUCIGENIA			1,900	19
	....SCENEDESMUS			930	10
			TOTALS	3,900	41
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			3,400	35
D	....MELOSIRA			1,900	19
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			160	2
	...NITZSCHIACEAE				
	....NITZSCHIA			310	3
			TOTALS	5,800	59

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.973
CLASS 0.973
ORDER 1.215
FAMILY 1.604
GENERA 2.573

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JUNE 7, 1976
1130 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...COELASTRACEAE				
D	....COELASTRUM			3,100	55
	...SCENEDESMACEAE				
	....ACTINASTRUM			300	5
D	....SCENEDESMUS			970	18
			TOTALS	4,300	78
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			1,100	20
	....MELOSIRA			75	1
			TOTALS	1,200	21

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.753
CLASS	0.753
ORDER	0.753
FAMILY	1.437
GENERA	1.691

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JULY 1, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,600 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...COELASTRACEAE			
	....COELASTRUM		94	2
	...OOCYSTACEAE			
	....ANKISTRODESMUS		27	1
	....DICTYOSPHAERIUM		380	8
	....SELENASTRUM		27	1
	...SCENEDESMACEAE			
	....CRUCIGENIA		650	14
D	....SCENEDESMUS		790	17
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CARTERIA		54	1
	....CHLAMYDOMONAS		81	2
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
L	....COSMARIUM			0
		TOTALS	2,100	46
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		430	9
	....MELOSIRA		110	2
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
L	....COCCONEIS			0
	...NITZSCHIACEAE			
	....NITZSCHIA		54	1
		TOTALS	600	12
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....AGMENELLUM		220	5
D	....ANACYSTIS		1,000	23
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....APHANIZOMENON		320	7
	...OSCILLATORIACEAE			
	....OSCILLATORIA		270	6
		TOTALS	1,900	41
	EUGLENOPHYTA	EUGLENOIDS		
	.CRYPTOPHYCEAE	CRYPTOMONADS		
	..CRYPTOMONIDALES			
	...CRYPTOMONODACEAE			
	....CRYPTOMONAS		27	1
		TOTALS	27	1
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
L	....EUGLENA			0
L	....TRACHELOMONAS			0
		TOTALS	27	0
	PYRRHOPHYTA	FIRE ALGAE		
	.DINOPHYCEAE	DINOFLAGELLATES		
	..PERIDINIALES			
	...GLENODINIACEAE			
L	....GLENODINIUM			0
		TOTALS	13	0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.528
CLASS	1.540
ORDER	2.147
FAMILY	2.715
GENERA	3.382

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 2, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

16,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...MICRACTINIACEAE			
	....GOLENKINIA		120	1
	...OOCYSTACEAE			
	....TETRAEDRON		120	1
	...SCENEDESMACEAE			
	....CRUCIGENIA		500	3
		TOTALS	740	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		370	2
D	....MELOSIRA		3,600	23
	..PENNALES	PENNATE		
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		120	1
	...NITZSCHIACEAE			
	....NITZSCHIA		2,000	13
		TOTALS	6,100	39
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....ANACYSTIS		2,700	17
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		6,200	39
		TOTALS	8,900	56

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.202
CLASS	1.202
ORDER	2.065
FAMILY	2.167
GENERA	2.281

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 30, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

110,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT	
	CHLOROPHYTA	GREEN ALGAE				
	.CHLOROPHYCEAE					
	..CHLOROCOCCALES					
	...OOCYSTACEAE					
	....DICTYOSPHAERIUM			5,500	5	
	....OOCYSTIS			890	1	
L	....TETRAEDRON				0	
	...SCENEDESMACEAE					
	....CRUCIGENIA			890	1	
			TOTALS	7,800	7	1.298=DIVERSITY
	CHRYSOPHYTA					
	.BACILLARIOPHYCEAE	DIATOMS				
	..CENTRALES	CENTRIC				
	...COSCINODISCACEAE					
	....CYCLOTELLA			4,400	4	
	....MELOSIRA			3,100	3	
	..PENNALES	PENNATE				
	...FRAGILARIACEAE					
	....ASTERIONELLA			2,200	2	
	...NAVICULACEAE	NAVICULOID				
	....NAVICULA			890	1	
	...NITZSCHIACEAE					
	....NITZSCHIA			890	1	
			TOTALS	12,000	11	2.067=DIVERSITY
	CYANOPHYTA	BLUE-GREEN ALGAE				
	.MYXOPHYCEAE					
	..CHROOCOCCALES	COCCOID				
	...CHROOCOCCACEAE					
	....AGMENELLUM			2,700	2	
	..OSCILLATORIALES	FILAMENTOUS				
	...NOSTOCACEAE					
L	....ANABAENA				0	
	...OSCILLATORIACEAE					
	....LYNGBYA			8,900	8	
D	....OSCILLATORIA			75,000	71	
			TOTALS	87,000	81	0.668=DIVERSITY
	EUGLENOPHYTA	EUGLENOIDS				
	.EUGLENOPHYCEAE					
	..EUGLENALES					
	...EUGLENACEAE					
L	....EUGLENA				0	
			TOTALS	220	0	0.000=DIVERSITY

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.880
CLASS	0.880
ORDER	1.142
FAMILY	1.233
GENERA	1.744

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SEP. 27, 1976
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

50,000 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...CHARACIACEAE			
L	....SCHROEDERIA			0
	...HYDRODICTYACEAE			
L	....PEDIASTRUM			0
	...OOCYSTACEAE			
	....ANKISTRODESMUS		590	1
L	....DICTYOSPHAERIUM			0
L	....KIRCHNERIELLA			0
	....OOCYSTIS		340	1
L	....SELENASTRUM			0
	...SCENEDESMACEAE			
	....SCENEDESMUS		1,000	2
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
L	....CARTERIA			0
L	....CHLAMYDOMONAS			0
		TOTALS	2,300	4
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		2,700	5
	....MELOSIRA		1,800	4
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		500	1
		TOTALS	5,000	10
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....AGMENELLUM		2,700	5
D	....ANACYSTIS		12,000	24
	....GOMPHOSPHAERIA		1,300	3
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....ANABAENA		2,100	4
L	....APHANIZOMENON			0
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		25,000	49
		TOTALS	42,000	85
	EUGLENOPHYTA	EUGLENOIDS		
	.CRYPTOPHYCEAE	CRYPTOMONADS		
	..CRYPTOMONIDALES			
	...CRYPTOCHRYSIDACEAE			
L	....CHROOMONAS			0
	...CRYPTOMONODACEAE			
L	....CRYPTOMONAS			0
		TOTALS	84	0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.755
CLASS	0.755
ORDER	1.623
FAMILY	1.889
GENERA	2.350

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	BIOMASS (G/M^2) ASH WEIGHT	BIOMASS (G/M^2) ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS PIGMENT RATIO	SAMPLING METHOD
OCT. 21	28	36	29	7	45	9.8	170	POLYETHYLENE STRIP
AUG. 30	28	12.3	8.0	4.3	46.2	5.7	93	POLYETHYLENE STRIP

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	588	579	584	738	734	736	590	575	583	385	374	382
2	594	573	583	742	735	738	581	567	577	372	354	362
3	588	567	578	743	739	741	574	570	572	358	352	356
4	588	549	574	742	739	740	566	562	564	362	357	359
5	575	560	570	737	726	731	558	550	553	368	362	365
6	584	564	578	737	730	733	547	514	532	373	366	370
7	583	562	574	731	723	727	508	493	500	394	375	385
8	581	569	576	727	718	723	488	462	478	408	392	400
9	585	570	582	719	715	717	458	443	448	425	409	418
10	598	565	586	709	706	708	458	454	456	445	428	439
11	---	---	---	685	676	680	476	469	471	449	445	447
12	612	501	568	678	668	673	484	481	482	448	442	444
13	---	---	---	669	648	658	479	474	476	434	423	428
14	641	569	616	648	635	641	473	471	472	414	404	408
15	613	598	607	635	623	628	472	465	469	403	392	397
16	627	609	620	634	624	628	462	450	454	413	403	408
17	639	623	631	625	615	621	470	448	456	413	405	409
18	643	637	640	622	612	615	493	470	485	415	406	411
19	642	634	638	612	598	606	589	489	492	420	416	419
20	649	637	644	602	590	594	500	497	499	417	395	410
21	---	---	---	587	566	576	497	492	494	404	393	397
22	---	---	---	564	560	562	494	488	492	403	395	398
23	---	---	---	561	558	559	491	486	488	402	392	396
24	---	---	---	559	555	557	483	469	477	400	392	396
25	---	---	---	571	567	569	470	464	467	392	386	389
26	---	---	---	578	566	572	470	458	465	395	387	391
27	---	---	---	575	564	569	457	442	449	408	400	403
28	---	---	---	573	564	568	440	430	436	401	385	394
29	722	718	720	580	569	574	447	430	441	386	355	374
30	731	720	725	579	574	576	425	389	398	357	332	344
31	735	730	732	---	---	---	391	386	389	342	316	328
MONTH	---	---	---	743	555	644	590	386	484	449	316	394

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	398	320	325	253	243	248	390	379	386	396	359	370
2	423	315	328	249	239	245	411	397	405	358	344	349
3	324	308	318	237	234	236	418	413	416	342	334	338
4	317	308	312	236	233	236	428	422	425	332	324	328
5	310	295	302	273	244	261	442	433	437	330	319	322
6	476	365	379	292	272	281	455	448	451	321	312	316
7	382	371	378	302	291	296	454	435	444	320	310	313
8	487	380	384	310	300	303	467	438	454	322	306	312
9	498	388	392	325	304	316	462	446	455	323	309	315
10	506	399	412	323	313	319	468	459	463	326	314	316
11	437	424	431	329	312	319	470	460	466	327	312	318
12	447	435	443	335	329	332	481	465	472	339	322	329
13	---	---	---	---	---	---	487	478	481	362	336	350
14	---	---	---	---	---	---	506	486	492	393	362	378
15	---	---	---	---	---	---	525	497	513	404	392	398
16	---	---	---	---	---	---	545	523	535	424	405	415
17	---	---	---	302	296	298	557	543	552	432	394	407
18	---	---	---	303	297	301	560	552	557	393	375	382
19	---	---	---	298	288	292	564	551	558	376	368	367
20	---	---	---	293	281	287	565	532	550	372	356	362
21	---	---	---	287	282	285	533	513	526	374	354	367
22	---	---	---	331	290	311	514	489	497	422	389	408
23	---	---	---	349	330	340	---	---	---	453	427	439
24	291	264	276	359	349	354	---	---	---	488	476	482
25	278	257	269	360	356	358	---	---	---	---	---	---
26	257	234	242	363	358	360	---	---	---	555	523	534
27	250	241	246	372	365	369	---	---	---	---	---	---
28	246	240	244	373	366	371	---	---	---	---	---	---
29	247	241	245	374	368	371	---	---	---	---	---	---
30	---	---	---	386	374	379	435	394	422	---	---	---
31	---	---	---	385	375	379	---	---	---	---	---	---
MONTH	---	---	---	386	233	313	---	---	---	555	306	369

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	667	647	656	---	---	---	472	470	471
2	---	---	---	691	677	684	---	---	---	469	464	467
3	---	---	---	709	697	704	---	---	---	468	460	462
4	---	---	---	768	724	743	---	---	---	459	458	459
5	---	---	---	844	784	815	---	---	---	461	455	457
6	---	---	---	872	857	865	491	487	489	455	448	451
7	---	---	---	923	887	904	493	489	490	452	446	449
8	---	---	---	960	935	946	493	489	491	449	445	447
9	---	---	---	971	960	966	493	490	491	450	445	448
10	---	---	---	903	828	858	495	491	493	446	441	444
11	---	---	---	808	762	788	499	495	497	441	439	440
12	---	---	---	737	669	699	501	498	499	438	434	436
13	---	---	---	643	629	634	502	500	500	448	429	431
14	---	---	---	614	605	608	502	497	500	435	431	433
15	---	---	---	588	583	585	499	495	497	437	433	434
16	---	---	---	564	551	560	492	490	491	440	436	438
17	---	---	---	547	537	542	491	486	489	442	439	440
18	---	---	---	533	510	522	486	482	483	447	440	442
19	---	---	---	505	486	492	480	473	476	446	442	443
20	---	---	---	483	478	479	473	468	471	444	441	442
21	---	---	---	474	470	472	---	---	---	442	438	440
22	---	---	---	468	461	464	---	---	---	446	442	443
23	---	---	---	457	453	455	---	---	---	447	444	446
24	---	---	---	461	454	457	---	---	---	453	448	450
25	---	---	---	464	459	461	---	---	---	455	451	452
26	---	---	---	467	464	465	---	---	---	458	455	456
27	---	---	---	469	466	468	500	492	496	460	458	459
28	---	---	---	470	463	466	499	492	495	460	454	456
29	---	---	---	464	462	463	496	488	492	460	439	456
30	644	533	639	---	---	---	487	470	476	459	452	455
31	---	---	---	---	---	---	472	469	471	---	---	---
MONTH	---	---	---	971	453	628	---	---	---	472	429	448

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	21.0	21.0	18.0	17.0	17.5	9.0	8.5	9.0	7.0	6.5	6.5
2	21.0	20.0	20.5	18.0	17.5	17.5	8.5	8.5	8.5	7.0	7.0	7.0
3	20.0	19.0	19.5	18.0	18.0	18.0	9.0	8.5	8.5	6.5	5.5	6.0
4	21.0	19.0	19.5	18.0	18.0	18.0	9.5	8.5	9.0	5.0	4.5	4.5
5	20.5	19.5	20.0	18.0	18.0	18.0	9.5	9.0	9.5	---	---	---
6	20.0	19.5	20.0	18.5	18.0	18.0	10.0	9.5	9.5	7.5	7.5	7.5
7	20.5	19.5	20.0	18.5	18.0	18.5	10.0	9.5	9.5	7.0	6.0	6.5
8	21.0	20.0	20.0	19.0	18.5	18.5	9.5	8.5	9.0	5.5	4.5	5.0
9	21.0	20.0	20.5	19.0	18.5	18.5	8.5	8.0	8.5	4.0	3.5	4.0
10	21.5	20.0	20.5	18.5	18.0	18.5	8.5	8.0	8.5	3.5	3.0	3.5
11	21.5	21.0	21.0	18.5	18.0	18.0	9.0	8.0	8.5	3.5	3.0	3.5
12	22.0	21.0	21.5	18.0	16.5	17.5	9.0	9.0	9.0	3.0	3.0	3.0
13	22.5	22.0	22.0	16.5	15.0	16.0	9.5	9.0	9.5	4.0	3.0	3.5
14	---	---	---	15.5	14.5	15.0	10.5	9.5	10.0	4.0	3.0	3.5
15	---	---	---	14.5	14.0	14.5	11.0	10.0	10.5	4.0	3.0	3.5
16	24.5	23.0	23.5	14.5	14.0	14.0	---	---	---	4.0	3.5	3.5
17	23.0	22.0	22.5	14.5	14.5	14.5	10.0	9.0	9.5	4.0	3.5	3.5
18	22.0	21.5	21.5	14.5	14.5	14.5	9.0	7.5	8.5	4.0	3.5	3.5
19	21.5	20.5	21.0	15.0	14.5	15.0	7.5	6.5	7.0	4.5	4.0	4.0
20	20.5	20.5	20.5	15.0	14.0	14.5	7.0	6.5	6.5	4.5	4.0	4.5
21	---	---	---	13.5	12.5	13.0	7.0	6.0	6.5	4.5	4.0	4.5
22	---	---	---	12.5	11.5	12.0	6.5	6.5	6.5	5.0	4.0	4.5
23	---	---	---	12.0	11.0	11.5	6.5	6.5	6.5	---	---	---
24	---	---	---	11.0	10.5	11.0	6.5	6.5	6.5	5.5	5.5	5.5
25	---	---	---	10.5	10.0	10.0	6.5	6.0	6.0	6.5	5.5	6.0
26	---	---	---	9.5	8.5	9.0	6.0	5.5	6.0	6.5	6.0	6.0
27	---	---	---	8.0	7.5	8.0	6.0	6.0	6.0	6.0	6.0	6.0
28	---	---	---	8.0	8.0	8.0	6.5	6.0	6.0	6.0	5.5	5.5
29	18.5	15.0	18.0	9.0	8.0	8.5	6.5	6.5	6.5	6.0	5.5	6.0
30	18.0	17.5	18.0	9.5	9.0	9.5	6.5	6.0	6.5	6.5	6.0	6.5
31	17.5	17.5	17.5	---	---	---	6.5	6.0	6.5	6.5	6.0	6.5
MONTH	---	---	---	19.0	7.5	14.5	11.0	5.5	8.0	7.5	3.0	5.0

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.6	7.5	7.6	7.7	7.6	7.6	7.9	7.7	7.8	7.9	7.9	7.9
2	7.7	7.6	7.6	7.6	7.5	7.6	7.9	7.7	7.8	7.9	7.9	7.9
3	7.6	7.5	7.6	7.5	7.4	7.5	7.9	7.8	7.8	7.9	7.9	7.9
4	7.6	7.6	7.6	7.4	7.4	7.4	8.1	7.8	7.9	7.9	7.9	7.9
5	7.6	7.5	7.6	7.6	7.5	7.6	8.1	7.8	8.0	7.9	7.9	7.9
6	7.6	7.6	7.6	7.7	7.6	7.6	8.6	7.8	8.1	7.9	7.9	7.9
7	7.5	7.5	7.5	7.7	7.6	7.6	8.2	7.7	7.9	7.9	7.9	7.9
8	7.6	7.5	7.5	7.7	7.6	7.7	7.8	7.6	7.8	7.9	7.9	7.9
9	7.5	7.4	7.5	7.8	7.7	7.8	7.7	7.5	7.6	7.9	7.9	7.9
10	7.7	7.4	7.5	7.8	7.8	7.8	7.7	7.4	7.6	7.9	7.9	7.9
11	7.8	7.6	7.7	7.8	7.7	7.7	8.0	7.6	7.8	7.9	7.8	7.9
12	7.8	7.6	7.7	7.7	7.7	7.7	7.8	7.6	7.7	7.9	7.8	7.8
13	---	---	---	---	---	---	7.8	7.6	7.7	7.9	7.8	7.8
14	---	---	---	---	---	---	7.9	7.7	7.8	7.9	7.8	7.8
15	---	---	---	---	---	---	8.0	7.8	7.9	7.9	7.8	7.8
16	---	---	---	---	---	---	8.2	8.1	8.1	7.8	7.7	7.8
17	---	---	---	7.5	7.5	7.5	8.3	8.1	8.2	7.8	7.8	7.8
18	---	---	---	7.6	7.5	7.6	8.5	8.1	8.2	7.8	7.7	7.7
19	---	---	---	7.6	7.5	7.6	8.5	8.0	8.3	7.8	7.7	7.7
20	---	---	---	7.6	7.5	7.6	8.1	7.9	8.0	7.8	7.7	7.8
21	---	---	---	7.6	7.6	7.6	7.9	7.7	7.8	7.9	7.8	7.8
22	---	---	---	7.6	7.6	7.6	7.7	7.5	7.6	7.8	7.7	7.7
23	---	---	---	7.7	7.6	7.6	7.7	7.6	7.6	7.7	7.6	7.7
24	8.1	8.0	8.1	7.7	7.6	7.6	7.6	7.5	7.5	7.6	7.5	7.6
25	8.1	8.0	8.1	7.7	7.6	7.6	7.7	7.6	7.6	7.5	7.4	7.5
26	8.0	7.9	8.0	7.7	7.6	7.6	7.7	7.7	7.7	7.4	7.3	7.3
27	7.9	7.9	7.9	7.8	7.7	7.7	7.8	7.8	7.8	7.2	7.2	7.2
28	7.8	7.7	7.7	7.8	7.7	7.7	7.8	7.8	7.8	---	---	---
29	7.7	7.6	7.7	7.8	7.7	7.7	7.9	7.8	7.9	---	---	---
30	---	---	---	7.8	7.7	7.8	7.9	7.9	7.9	---	---	---
31	---	---	---	7.8	7.8	7.8	---	---	---	---	---	---
MONTH	---	---	---	7.8	7.4	7.6	8.6	7.4	7.8	7.9	7.2	7.8

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.5	7.5	7.5	---	---	---	7.5	7.3	7.4
2	---	---	---	7.6	7.5	7.5	---	---	---	7.5	7.3	7.4
3	---	---	---	7.8	7.6	7.7	---	---	---	7.5	7.5	7.5
4	---	---	---	7.8	7.7	7.8	---	---	---	7.5	7.4	7.5
5	---	---	---	7.8	7.7	7.7	---	---	---	8.2	7.4	7.7
6	---	---	---	7.8	7.7	7.7	8.4	8.2	8.3	8.1	7.3	7.7
7	---	---	---	7.9	7.8	7.8	8.4	8.0	8.1	8.7	7.8	8.1
8	---	---	---	7.9	7.9	7.9	8.4	7.9	8.1	8.4	7.7	8.1
9	---	---	---	7.9	7.8	7.9	8.3	7.8	8.0	7.9	7.5	7.7
10	---	---	---	7.9	7.8	7.8	8.0	7.8	7.9	7.8	7.5	7.6
11	---	---	---	7.9	7.8	7.8	8.0	7.8	7.9	7.8	7.5	7.6
12	---	---	---	7.9	7.8	7.8	8.2	7.8	8.0	7.9	7.6	7.7
13	---	---	---	7.8	7.7	7.7	7.9	7.7	7.8	7.9	7.6	7.7
14	---	---	---	7.7	7.6	7.6	7.9	7.6	7.8	8.3	7.8	8.0
15	---	---	---	7.6	7.5	7.5	8.1	7.7	7.9	8.6	7.8	8.1
16	---	---	---	7.6	7.5	7.5	8.0	7.6	7.7	8.2	7.8	8.0
17	---	---	---	7.6	7.5	7.5	7.8	7.6	7.6	8.2	8.0	8.0
18	---	---	---	7.6	7.5	7.5	7.6	7.6	7.6	8.6	8.0	8.2
19	---	---	---	7.5	7.5	7.5	7.7	7.6	7.6	8.7	8.1	8.3
20	---	---	---	7.5	7.4	7.5	7.6	7.5	7.6	8.5	8.1	8.2
21	---	---	---	7.6	7.4	7.5	---	---	---	8.6	8.3	8.4
22	---	---	---	7.6	7.5	7.5	---	---	---	8.9	8.4	8.5
23	---	---	---	7.7	7.5	7.5	---	---	---	8.6	8.3	8.4
24	---	---	---	7.6	7.5	7.5	---	---	---	9.1	8.3	8.7
25	---	---	---	7.5	7.4	7.5	---	---	---	8.9	8.2	8.5
26	---	---	---	7.5	7.3	7.4	---	---	---	8.6	8.1	8.4
27	---	---	---	7.4	7.3	7.3	7.1	6.8	6.9	8.4	8.2	8.3
28	---	---	---	7.4	7.2	7.3	7.4	6.8	7.0	8.2	8.0	8.1
29	---	---	---	7.3	7.2	7.2	7.4	7.2	7.3	8.4	7.9	7.9
30	7.5	7.5	7.5	---	---	---	7.5	7.0	7.3	8.3	7.9	8.0
31	---	---	---	---	---	---	7.7	7.2	7.4	---	---	---
MONTH	---	---	---	7.9	7.2	7.6	---	---	---	9.1	7.3	8.0

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.0	6.5	13.5	12.5	13.0	15.0	14.5	15.0	17.5	16.5	17.0
2	6.5	6.0	6.5	14.0	13.0	13.5	15.5	14.5	15.0	18.0	17.0	17.5
3	6.5	6.5	6.5	14.5	14.0	14.5	16.0	15.0	15.5	18.0	17.5	18.0
4	7.0	6.5	6.5	15.0	14.5	15.0	16.5	15.5	16.0	18.0	17.5	18.0
5	7.0	7.0	7.0	16.0	15.0	15.5	16.5	15.5	16.0	18.5	18.0	18.5
6	7.0	6.0	6.5	15.0	14.5	14.5	17.5	16.0	16.5	18.5	18.0	18.5
7	6.5	6.0	6.5	15.0	14.5	14.5	17.0	16.0	17.0	18.5	18.5	18.5
8	7.5	6.0	6.5	14.5	13.5	14.0	17.0	17.0	17.0	19.0	18.0	18.5
9	7.5	6.5	7.0	13.5	12.5	13.0	17.0	16.5	17.0	19.0	18.5	18.5
10	9.0	8.0	8.5	13.0	12.0	12.5	17.5	16.5	17.0	19.5	19.0	19.0
11	9.5	9.0	9.5	13.5	12.5	13.0	18.5	17.0	17.5	20.0	19.0	19.5
12	10.0	9.5	9.5	14.0	13.5	13.5	18.0	17.5	17.5	20.5	19.5	20.0
13	---	---	---	---	---	---	18.0	17.5	17.5	20.5	20.0	20.5
14	---	---	---	---	---	---	18.5	17.5	18.0	20.5	20.0	20.0
15	---	---	---	---	---	---	19.0	18.0	18.5	20.5	19.5	20.0
16	---	---	---	---	---	---	19.5	19.0	19.0	20.5	19.5	20.0
17	---	---	---	12.5	12.0	12.5	20.0	19.0	19.5	20.0	19.0	19.5
18	---	---	---	13.0	12.0	12.5	20.5	19.5	19.5	20.0	19.0	19.5
19	---	---	---	13.5	12.5	13.0	20.5	20.0	20.0	20.5	19.5	20.0
20	---	---	---	14.5	13.5	14.0	20.5	20.0	20.5	21.0	20.0	20.5
21	---	---	---	15.0	14.0	14.5	20.0	19.5	19.5	22.0	21.0	21.5
22	---	---	---	14.5	14.0	14.0	20.5	19.0	20.0	23.0	21.5	22.0
23	---	---	---	14.5	14.0	14.5	20.0	19.5	19.5	23.0	22.5	22.5
24	11.5	11.0	11.5	14.5	14.0	14.5	20.0	19.5	19.5	23.0	22.0	22.5
25	11.5	11.0	11.5	15.0	14.0	14.5	19.5	18.5	19.0	22.5	22.0	22.0
26	13.0	11.0	11.5	15.0	14.5	15.0	18.5	18.0	18.5	22.5	21.0	22.0
27	12.5	11.5	12.0	15.5	14.5	15.0	18.5	18.0	18.5	21.0	20.5	20.5
28	13.0	12.0	12.0	15.0	14.5	14.5	18.5	17.5	18.0	---	---	---
29	12.5	12.0	12.5	15.0	14.5	15.0	17.5	16.5	17.0	---	---	---
30	---	---	---	15.0	14.5	15.0	16.5	16.5	16.5	---	---	---
31	---	---	---	14.5	14.5	15.0	---	---	---	---	---	---
MONTH	---	---	---	16.0	12.0	14.0	20.5	14.5	18.0	23.0	16.5	20.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				24.0	23.5	23.5	---	---	---	27.0	26.5	26.5
2				24.5	23.5	24.0	---	---	---	26.5	26.0	26.5
3				25.0	24.0	24.5	---	---	---	26.0	21.5	26.0
4				25.0	24.5	25.0	---	---	---	26.0	26.0	26.0
5				25.5	24.5	25.0	---	---	---	28.0	26.0	26.5
6				26.0	25.0	25.5	31.0	30.5	30.5	27.0	26.0	26.5
7				27.0	26.5	26.5	30.5	29.5	30.0	28.0	26.0	27.0
8				28.0	27.0	27.5	30.5	29.5	29.5	27.5	26.5	27.0
9				28.0	27.5	28.0	30.0	29.0	29.0	27.5	27.0	27.0
10				29.0	28.0	28.5	29.5	29.0	29.0	27.0	26.0	26.5
11				29.0	28.0	28.5	29.5	29.0	29.0	26.5	26.0	26.0
12				29.5	28.5	29.0	29.5	29.0	29.5	26.0	25.5	26.0
13				29.5	28.5	29.0	29.5	29.0	29.0	26.5	24.5	26.0
14				29.5	29.0	29.0	29.5	29.0	29.5	26.5	26.0	26.0
15				29.5	28.5	29.0	30.5	29.0	29.5	27.5	26.0	26.5
16				29.0	28.5	28.5	29.5	29.0	29.0	27.0	26.0	26.5
17				29.0	28.0	28.5	29.5	29.5	29.5	27.0	26.0	26.0
18				28.5	28.0	28.5	29.5	29.0	29.0	27.5	26.0	26.5
19				28.5	28.0	28.0	29.0	28.5	29.0	27.5	26.5	26.5
20				28.5	28.0	28.5	29.0	28.5	28.5	27.0	26.0	26.5
21				29.0	28.5	28.5	---	---	---	26.0	25.5	25.5
22				29.0	28.5	28.5	---	---	---	26.0	24.5	25.0
23				29.0	28.5	29.0	---	---	---	25.0	24.5	24.5
24				30.0	29.0	29.0	---	---	---	26.0	24.5	25.0
25				30.5	29.5	30.0	---	---	---	25.5	24.5	25.0
26				30.5	30.0	30.0	---	---	---	25.5	25.0	25.0
27				30.5	30.0	30.0	29.0	28.0	28.0	25.0	25.0	25.0
28				30.5	30.0	30.5	29.5	27.5	28.5	25.0	24.0	24.0
29				30.0	30.0	30.0	28.5	27.5	28.0	24.0	23.5	23.5
30				---	---	---	27.5	26.5	27.0	24.0	23.0	23.5
31				---	---	---	27.0	26.5	26.5	---	---	---
MONTH				30.5	23.5	28.0	---	---	---	28.0	21.5	26.0

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	7.1	7.4	---	---	---	9.9	9.0	10.4	11.5	10.7	11.0
2	8.0	7.6	7.8	---	---	---	10.7	9.1	9.9	11.9	10.6	11.1
3	8.5	7.7	8.0	---	---	---	10.7	9.9	10.3	---	---	---
4	---	---	---	---	---	---	10.9	9.7	10.4	---	---	---
5	8.8	7.7	8.2	---	---	---	10.2	9.5	9.9	---	---	---
6	8.2	7.4	7.8	8.7	7.5	8.1	10.4	9.3	9.8	---	---	---
7	7.9	6.5	7.0	8.9	7.7	8.4	10.5	10.2	10.3	---	---	---
8	8.3	6.5	7.3	9.8	8.3	8.9	10.9	10.1	10.5	---	---	---
9	8.1	6.9	7.4	9.4	8.2	8.9	11.2	10.6	10.9	---	---	---
10	8.4	6.6	7.6	10.5	8.8	9.5	---	---	---	---	---	---
11	7.7	6.2	7.0	9.7	8.6	9.1	11.3	10.7	11.1	---	---	---
12	8.7	6.1	7.3	9.9	8.3	9.2	10.9	9.9	10.4	18.4	11.4	12.3
13	9.0	6.3	7.6	10.6	8.8	9.7	10.7	10.0	10.4	13.0	12.0	12.3
14	7.8	7.1	7.5	10.5	9.4	10.0	10.4	9.1	9.9	13.9	12.9	13.2
15	10.1	7.8	8.8	10.7	9.4	10.1	10.2	8.9	9.7	12.3	11.3	12.0
16	9.3	8.4	8.7	9.5	8.7	9.2	10.5	9.9	10.2	12.1	11.1	11.6
17	9.3	7.9	8.6	9.5	8.4	8.8	10.3	9.7	10.0	11.8	11.2	11.6
18	10.1	8.0	9.1	9.3	8.2	8.6	11.2	9.9	10.6	12.5	11.5	11.8
19	---	---	---	8.7	7.8	8.2	11.6	10.3	10.9	12.4	11.4	11.9
20	---	---	---	9.0	7.9	8.4	10.8	9.7	10.4	12.4	11.9	12.1
21	---	---	---	10.4	9.0	9.7	11.1	10.4	10.7	12.7	12.0	12.4
22	---	---	---	10.4	9.4	9.9	10.9	10.0	10.3	13.2	12.6	12.9
23	---	---	---	10.3	9.6	9.9	13.3	9.5	10.2	13.5	11.4	12.6
24	---	---	---	10.3	9.2	10.1	11.3	10.4	10.9	12.1	11.4	11.7
25	---	---	---	10.3	9.3	9.9	11.5	10.4	10.8	12.1	11.0	11.5
26	---	---	---	11.1	10.2	10.6	10.8	9.9	10.4	11.3	10.6	11.0
27	---	---	---	11.4	10.4	10.9	10.7	10.0	10.3	12.2	10.6	11.2
28	---	---	---	11.5	10.7	11.0	10.4	9.6	9.9	12.2	11.3	12.0
29	---	---	---	11.3	9.8	10.6	11.5	9.8	10.7	12.3	11.4	11.8
30	---	---	---	10.5	9.9	10.3	12.0	11.2	11.4	11.9	11.2	11.6
31	---	---	---	---	---	---	11.8	11.0	11.4	12.0	11.4	11.7
MONTH	---	---	---	11.5	7.5	9.5	13.3	8.9	10.4	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	11.1	11.5	8.9	8.3	8.5	9.3	8.1	8.7	---	---	---
2	11.8	11.1	11.4	9.1	8.5	8.9	9.8	8.9	9.3	---	---	---
3	11.9	11.0	11.4	9.4	8.5	8.9	9.6	8.9	9.3	---	---	---
4	11.9	11.3	11.6	9.5	8.6	8.9	10.6	9.2	9.8	---	---	---
5	11.9	11.0	11.4	8.8	8.0	8.5	10.5	9.7	10.0	---	---	---
6	12.1	11.1	11.6	8.4	7.7	8.1	10.9	9.3	10.0	---	---	---
7	11.4	10.3	10.8	7.7	6.9	7.3	10.7	8.9	9.9	---	---	---
8	11.3	10.3	10.7	7.0	6.4	6.7	10.3	9.6	10.0	---	---	---
9	10.9	10.3	10.6	8.0	6.3	7.2	---	---	---	---	---	---
10	11.4	10.1	10.7	8.0	7.2	7.7	---	---	---	9.1	8.5	8.7
11	10.8	10.1	10.5	8.5	7.7	8.0	---	---	---	9.4	8.7	9.0
12	11.4	9.6	10.3	8.9	8.5	8.6	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	10.4	9.8	10.1	---	---	---	---	---	---
18	---	---	---	10.9	9.8	10.3	---	---	---	8.7	7.4	8.0
19	---	---	---	10.6	9.5	10.0	---	---	---	8.7	7.8	8.2
20	---	---	---	10.0	9.0	9.4	---	---	---	8.9	7.9	8.4
21	---	---	---	9.9	9.0	9.3	---	---	---	9.4	8.3	8.9
22	---	---	---	10.2	9.3	9.7	---	---	---	9.7	8.4	8.9
23	---	---	---	10.3	9.1	9.8	---	---	---	9.3	8.1	8.7
24	8.7	7.4	7.9	9.6	9.0	9.3	---	---	---	9.0	7.3	8.2
25	8.6	8.0	8.3	9.4	8.6	8.9	---	---	---	8.1	7.3	7.7
26	9.0	8.1	8.6	8.8	8.1	8.5	8.2	7.2	7.7	8.1	6.3	7.4
27	8.8	7.9	8.4	9.3	8.2	8.8	8.3	7.4	7.9	8.0	7.1	7.5
28	8.6	7.7	8.2	9.5	8.7	9.1	8.8	8.0	8.2	---	---	---
29	8.4	7.7	8.1	9.1	8.5	8.8	9.0	8.2	8.6	---	---	---
30	---	---	---	9.6	8.5	9.0	9.1	8.6	9.0	---	---	---
31	---	---	---	9.8	9.1	9.3	---	---	---	---	---	---
MONTH	---	---	---	10.9	6.3	8.8	---	---	---	---	---	---

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.8	5.9	6.2						
2	---	---	---	---	---	---						
3	---	---	---	8.1	6.4	7.2						
4	---	---	---	8.1	7.1	7.6						
5	---	---	---	8.5	6.8	7.6						
6	---	---	---	8.0	6.9	7.4						
7	---	---	---	8.1	6.8	7.4						
8	---	---	---	8.3	7.1	7.7						
9	---	---	---	7.9	7.2	7.5						
10	---	---	---	8.6	7.5	8.1						
11	---	---	---	8.8	7.6	8.2						
12	---	---	---	9.0	7.5	8.2						
13	---	---	---	8.6	7.4	8.0						
14	---	---	---	8.0	7.2	7.6						
15	---	---	---	7.9	7.1	7.5						
16	---	---	---	8.0	7.1	7.5						
17	---	---	---	8.3	7.1	7.7						
18	---	---	---	8.6	7.3	7.9						
19	---	---	---	8.3	7.5	8.0						
20	---	---	---	8.1	7.5	7.8						
21	---	---	---	8.7	7.4	7.9						
22	---	---	---	8.6	7.5	8.0						
23	---	---	---	8.5	7.4	7.9						
24	---	---	---	9.3	7.4	8.2						
25	---	---	---	9.0	7.5	8.2						
26	---	---	---	9.0	7.3	7.9						
27	---	---	---	8.1	7.1	7.6						
28	---	---	---	8.3	7.1	7.8						
29	---	---	---	8.2	7.0	7.4						
30	7.0	6.5	6.8	---	---	---						
31	---	---	---	---	---	---						
MONTH	---	---	---	9.3	5.9	7.7						

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.2	7.4	8.0	7.9	7.9	7.5	7.3	7.5	7.4	7.3	7.3
2	7.6	7.4	7.5	8.0	7.8	7.9	7.6	7.5	7.6	7.3	7.2	7.2
3	7.5	7.2	7.5	7.9	7.7	7.8	7.7	7.7	7.7	7.2	7.2	7.2
4	7.6	7.1	7.3	7.7	7.7	7.7	7.8	7.7	7.7	7.3	7.2	7.3
5	7.5	7.0	7.3	7.5	7.4	7.4	7.7	7.7	7.7	7.4	7.3	7.3
6	7.4	7.2	7.4	7.7	7.6	7.6	7.8	7.6	7.7	7.4	7.3	7.3
7	7.7	7.3	7.5	7.7	7.5	7.6	7.7	7.6	7.7	7.4	7.3	7.4
8	7.6	7.3	7.5	7.7	7.6	7.6	7.7	7.6	7.6	7.5	7.4	7.4
9	7.5	7.2	7.3	7.7	7.6	7.6	7.7	7.6	7.6	7.5	7.5	7.5
10	7.6	7.3	7.4	7.8	7.6	7.7	7.6	7.6	7.6	7.5	7.5	7.5
11	7.6	7.2	7.4	7.7	7.6	7.7	7.7	7.6	7.6	7.6	7.5	7.5
12	7.7	7.3	7.5	7.8	7.7	7.8	7.7	7.6	7.6	7.6	7.5	7.5
13	7.9	7.5	7.6	7.9	7.8	7.9	7.6	7.5	7.5	7.7	7.5	7.6
14	7.6	7.5	7.6	7.9	7.9	7.9	7.5	7.5	7.5	7.7	7.6	7.7
15	7.8	7.4	7.5	8.0	7.9	7.9	7.5	7.3	7.4	7.8	7.7	7.7
16	7.5	7.3	7.4	8.0	7.8	7.9	7.4	7.3	7.4	7.8	7.7	7.7
17	7.4	7.3	7.3	8.0	7.9	7.9	7.4	7.3	7.4	7.9	7.8	7.8
18	7.5	7.3	7.4	8.0	7.9	8.0	7.5	7.3	7.4	7.9	7.8	7.9
19	7.8	7.3	7.4	8.0	7.9	7.9	7.4	7.3	7.4	7.9	7.8	7.8
20	7.3	7.2	7.2	8.0	7.9	7.9	7.5	7.4	7.4	7.8	7.7	7.8
21	---	---	---	8.0	7.9	8.0	7.6	7.5	7.6	7.8	7.7	7.8
22	---	---	---	8.0	8.0	8.0	7.7	7.6	7.6	7.8	7.7	7.8
23	---	---	---	8.0	8.0	8.0	7.8	7.7	7.7	7.8	7.6	7.7
24	---	---	---	8.0	7.9	8.0	7.8	7.7	7.8	7.7	7.6	7.6
25	---	---	---	7.9	7.8	7.9	7.8	7.7	7.7	7.7	7.7	7.7
26	---	---	---	7.9	7.8	7.8	7.7	7.6	7.7	7.8	7.7	7.8
27	---	---	---	7.8	7.7	7.7	7.6	7.5	7.5	7.9	7.8	7.8
28	---	---	---	7.7	7.7	7.7	7.5	7.4	7.4	7.9	7.8	7.9
29	8.2	8.1	8.2	7.6	7.6	7.6	7.6	7.4	7.5	7.9	7.8	7.8
30	8.1	8.0	8.1	7.6	7.5	7.6	7.5	7.4	7.4	7.8	7.7	7.7
31	8.1	8.0	8.0	---	---	---	7.4	7.3	7.4	7.7	7.6	7.6
MONTH	---	---	---	8.0	7.4	7.8	7.8	7.3	7.6	7.9	7.2	7.6

07263750 ARKANSAS RIVER AT LOCK AND DAM 3, NEAR SWAN LAKE, AR

LOCATION.--Lat 34°09'36", long 91°40'42", in sec.20, T.6 S., R.6 W., Jefferson County, at Dam No. 3, 1.5 mi (2.4 km) southeast of Swan Lake.

DRAINAGE AREA.--158,937 mi² (411,647 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
27...	9827	9827	3000	527	8.0	8.0	17.0	20	6	8.5
DEC										
01...	9827	9827	6400	516	8.0	<1.0	9.0	50	9	10.2
29...	9827	9827	23200	440	7.9	12.0	7.0	40	7	11.3
JAN										
06...	9827	9827	37600	350	8.1	2.0	4.0	40	35	11.8
FEB										
03...	9827	9827	18000	404	8.0	1.0	6.0	60	15	10.5
MAR										
02...	9827	9827	12400	281	7.7	18.0	15.0	50	30	8.7
APR										
05...	9827	9827	18000	397	7.8	9.0	16.0	35	20	10.6
MAY										
25...	9827	9827	43200	540	7.9	21.0	22.0	40	65	8.7
JUN										
14...	9827	9827	8000	841	8.0	26.0	25.0	20	<25	8.2
JUL										
12...	9827	9827	101000	767	8.0	28.0	28.0	20	45	8.0
AUG										
09...	9827	9827	3300	493	8.2	21.0	27.0	50	15	8.1
SEP										
13...	9827	9827	1700	536	8.3	29.0	25.0	20	8	8.9

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
27...	88	1.4	300	<17	<7	140	33	43	110	7.0
DEC										
01...	88	1.6	250	84	13	--	--	--	--	--
29...	93	2.7	320	69	--	--	--	--	--	--
JAN										
06...	90	1.8	--	2600	220	--	--	--	--	--
FEB										
03...	84	2.4	1100	75	--	--	--	--	--	--
MAR										
02...	85	1.8	1200	30	--	70	16	19	48	5.0
APR										
05...	106	2.6	1400	220	<7	--	--	--	--	--
MAY										
25...	99	2.1	1400	220	20	--	--	--	--	--
JUN										
14...	98	2.4	1100	80	<5	140	50	41	100	9.0
JUL										
12...	101	2.0	3000	370	20	--	--	--	--	--
AUG										
09...	100	2.5	180	<10	<10	--	--	--	--	--
SEP										
13...	106	3.2	<20	<10	--	160	62	48	120	9.0

07263750 ARKANSAS RIVER AT LOCK AND DAM 3, NEAR SWAN LAKE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
27...	64	4.0	130	0	107	2.1	87	94	350	9
DEC										
01...	--	--	--	--	--	--	56	91	338	14
29...	--	--	--	--	--	--	20	71	280	12
JAN										
06...	--	--	--	--	--	--	21	45	191	27
FEB										
03...	--	--	--	--	--	--	35	57	243	7
MAR										
02...	29	3.0	66	0	54	2.1	21	38	171	26
APR										
05...	--	--	--	--	--	--	27	66	234	13
MAY										
25...	--	--	--	--	--	--	38	90	310	51
JUN										
14...	100	3.8	110	0	90	1.8	44	200	480	31
JUL										
12...	--	--	--	--	--	--	55	140	459	81
AUG										
09...	--	--	--	--	--	--	14	63	270	35
SEP										
13...	50	3.9	120	0	98	1.0	38	68	318	12

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
27...	359	.17	.06	<3	<10	0	<10	180	10	45
DEC										
01...	352	.12	.07	--	--	--	<10	360	30	260
29...	292	.17	.08	--	--	--	<10	270	90	89
JAN										
06...	218	.33	.08	--	--	--	--	--	--	--
FEB										
03...	250	.25	.04	--	--	--	<10	680	60	120
MAR										
02...	197	.25	.08	<3	<10	<3	<10	1500	10	160
APR										
05...	247	.10	.06	--	--	--	<10	790	10	94
MAY										
25...	361	.32	.08	--	--	--	<10	--	10	130
JUN										
14...	511	.31	.08	<3	<10	<3	<10	790	30	61
JUL										
12...	540	.48	.09	--	--	--	20	2043	--	160
AUG										
09...	305	.17	.08	--	<10	--	<10	390	10	58
SEP										
13...	330	<.10	.09	<3	<10	<3	<10	290	10	100

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
27...	40	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
01...	<10	--	--	--	--	--	--	--	--
29...	<10	--	--	--	--	--	--	--	--
JAN									
06...	--	--	--	--	--	--	--	--	--
FEB									
03...	<10	.00	.00	.00	.00	.00	.00	.00	<1
MAR									
02...	10	--	--	--	--	--	--	--	--
APR									
05...	<10	--	--	--	--	--	--	--	--
MAY									
25...	10	--	--	--	--	--	--	--	--
JUN									
14...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JUL									
12...	20	.00	.00	.00	.00	.00	.00	.00	<1
AUG									
09...	<10	.00	.00	.00	.00	.00	.00	.00	<1
SEP									
13...	<10	.00	.00	.00	.00	.01	.00	.05	<1

07264000 BAYOU METO NEAR LONOKE, AR

LOCATION.--Lat 34°44'10", long 91°54'58", in SW¼ sec.6, T.1 N., R.8 W., Lonoke County, near left bank on downstream side of bridge on State Highway 31, 3.0 mi (4.8 km) upstream from Brushy Slough, 3.5 mi (5.6 km) south of Lonoke, and at mile 106.4 (171.2 km).

DRAINAGE AREA.--207 mi^2 (536 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year. Gage-height record and results of discharge measurements at site 4.8 mi (7.7 km) upstream since June 1948 are contained in reports of Corps of Engineers, Vicksburg district; published as "Big Bayou Meto near Lonoke."

REVISED RECORDS.--WRD Ark. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 199.11 ft (60.689 m) above mean sea level. Prior to Feb. 10, 1955, water-stage recorder at site 4.8 mi (7.7 km) upstream at datum 6.97 ft (2.124 m) higher. Feb. 10 to June 29, 1955, nonrecording gage at present site and datum.

REMARKS.--Records good. Part of low flow is drainage from areas irrigated with ground water and from large minnow farm supplied with ground water.

AVERAGE DISCHARGE.--22 years, 290 ft^3/s (8.21 m^3/s), 210,100 acre-ft/yr (259 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft^3/s (133 m^3/s) May 18, 1968, gage height, 26.55 ft (8.092 m); no flow at times in 1955, 1956, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft^3/s (34.0 m^3/s) Mar. 13, gage height, 18.31 ft (5.581 m); minimum, 3.6 ft^3/s (0.10 m^3/s) Oct. 14, gage height, 3.37 ft (1.027 m).

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	14	6.9	43	431	196	319	647	79	167	919	180	19
2	10	6.6	61	477	133	219	634	75	143	807	126	60
3	8.0	6.7	99	499	96	184	575	59	120	583	66	73
4	8.1	7.4	97	489	82	152	462	49	99	311	36	101
5	8.3	8.3	73	468	107	215	333	41	85	150	22	138
6	7.2	14	73	432	109	230	241	44	71	97	14	124
7	12	22	65	357	132	387	192	46	58	65	11	102
8	6.6	23	68	262	191	641	156	61	49	42	11	86
9	5.8	24	103	193	178	904	128	72	48	41	10	68
10	10	19	107	141	136	982	117	62	42	43	8.4	61
11	9.8	20	86	101	104	1030	102	55	33	30	7.2	56
12	5.0	16	68	76	83	1120	112	47	29	19	5.7	46
13	4.0	9.4	53	75	78	1180	92	39	30	24	5.1	39
14	3.8	8.9	43	74	85	1180	74	40	27	25	4.8	32
15	8.1	9.2	42	63	91	1110	66	72	27	17	4.0	25
16	7.2	8.5	48	56	93	989	62	148	33	13	4.1	27
17	5.8	7.8	72	46	124	813	69	223	35	13	7.2	26
18	6.7	7.3	101	37	240	595	76	291	176	12	10	20
19	5.3	8.3	97	31	385	397	66	288	246	9.9	11	14
20	4.1	11	80	38	543	274	57	237	250	11	9.2	13
21	3.9	10	63	44	709	208	53	170	279	9.7	7.3	13
22	4.7	9.8	51	73	837	169	59	116	235	8.3	6.8	22
23	6.0	12	47	110	913	155	71	88	155	8.7	8.4	21
24	6.4	11	39	109	954	140	74	65	99	7.7	12	21
25	7.8	24	38	116	963	125	83	51	310	8.5	11	13
26	6.7	22	51	156	936	109	92	48	514	9.6	14	11
27	8.2	17	118	261	847	99	96	55	612	11	16	11
28	13	17	248	366	699	99	102	90	750	11	15	12
29	12	27	340	404	502	267	97	121	881	10	13	12
30	11	38	378	371	---	584	88	173	944	113	13	11
31	7.6	---	396	287	---	639	---	181	---	173	19	---
TOTAL	237.1	432.1	3248	6643	10546	15515	5076	3186	6547	3602.4	688.2	1277
MEAN	7.65	14.4	105	214	364	500	169	103	218	116	22.2	42.6
MAX	14	38	396	499	963	1180	647	291	944	919	180	138
MIN	3.8	6.6	38	31	78	99	53	39	27	7.7	4.0	11
AC-FT	470	857	6440	13180	20920	30770	10070	6320	12990	7150	1370	2530

CAL YR 1975 TOTAL 118241.2 MEAN 324 MAX 2000 MIN 3.8 AC-FT 234500
WTR YR 1976 TOTAL 56997.8 MEAN 156 MAX 1180 MIN 3.8 AC-FT 113100

07264000 BAYOU METO NEAR LONOKE, AR--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Part of low flow is drainage from areas irrigated with ground water and from large minnow farm supplied with ground water.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)
OCT										
13...	9827	9827	--	4.0	387	7.6	31.0	27.0	30	15
NOV										
12...	9827	9827	--	16	1470	7.6	13.0	14.0	25	10
DEC										
15...	9827	9827	--	42	293	7.3	3.0	11.0	90	25
JAN										
21...	9827	9827	--	48	298	7.2	.0	5.0	40	20
30...	1028	1028	--	374	--	--	--	6.0	--	--
FEB										
18...	9827	9827	--	238	247	7.2	12.0	14.0	180	200
20...	1028	1028	--	556	--	--	16.5	15.0	--	--
MAR										
23...	9827	9827	--	155	227	7.5	8.0	15.0	70	35
APR										
06...	9827	9827	--	247	182	7.2	12.0	17.0	70	40
21...	1028	1028	--	53	--	--	24.5	20.5	--	--
MAY										
25...	9827	9827	--	52	400	7.5	14.0	20.0	45	100
JUN										
03...	1028	1028	--	123	--	--	26.0	22.5	--	--
14...	9827	9827	--	27	444	7.8	24.0	25.0	40	95
JUL										
13...	9827	9827	--	24	463	7.5	27.0	27.0	30	50
22...	1028	1028	--	8.3	--	--	28.0	27.0	--	--
AUG										
10...	9827	9827	--	8.8	403	7.5	22.0	23.0	30	30
27...	1028	1028	--	16	--	--	37.0	30.0	--	--
SEP										
13...	9827	9827	39	--	660	7.8	20.0	21.0	30	20

DATE	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)
OCT										
13...	3.6	41	3.4	--	5400	210	130	7	34	84
NOV										
12...	6.6	63	4.8	1300	800	--	--	--	--	--
DEC										
15...	6.4	58	2.6	2800	1200	1200	--	--	--	--
JAN										
21...	9.9	77	3.2	400	100	160	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	6.6	63	4.1	5600	7400	12000	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	7.3	72	4.4	680	40	25	62	20	18	46
APR										
06...	6.8	70	3.0	<200	120	75	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	4.4	48	>4.4	<50	380	450	--	--	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
14...	2.7	32	12	5200	300	540	120	22	30	74
JUL										
13...	2.4	30	>2.4	1800	160	720	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
AUG										
10...	2.5	29	5.2	150	1000	400	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	4.8	53	2.9	680	770	--	190	92	59	150

07264000 BAYOU METO NEAR LONOKE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)
OCT										
13...	11	46	3.8	150	0	123	6.0	20	64	275
NOV										
12...	--	--	--	--	--	--	--	130	420	1070
DEC										
15...	--	--	--	--	--	--	--	6.0	64	232
JAN										
21...	--	--	--	--	--	--	--	12	62	207
30...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	--	--	--	--	--	--	--	20	36	234
20...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	4.0	23	2.9	51	0	42	2.6	27	32	168
APR										
06...	--	--	--	--	--	--	--	6.0	24	136
21...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	--	--	--	--	--	--	--	39	47	242
JUN										
03...	--	--	--	--	--	--	--	--	--	--
14...	11	34	3.5	120	0	98	3.0	7.0	54	272
JUL										
13...	--	--	--	--	--	--	--	54	56	407
22...	--	--	--	--	--	--	--	--	--	--
AUG										
10...	--	--	--	--	--	--	--	24	50	233
27...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	11	63	4.9	120	0	98	3.0	9.0	120	416

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)
OCT										
13...	28	303	.23	.16	<3	<10	0	--	670	20
NOV										
12...	28	1000	.44	.24	--	--	--	<10	500	--
DEC										
15...	25	257	.38	.48	--	--	--	<10	1600	--
JAN										
21...	23	230	.53	.23	--	--	--	<10	1300	--
30...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	131	365	.40	.36	--	--	--	10	6300	--
20...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	37	205	.10	.24	<3	<10	<3	20	2100	30
APR										
06...	34	170	.20	.30	--	--	--	<10	2200	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	47	289	.56	.22	--	--	--	10	2300	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
14...	57	329	.42	.25	<3	<10	<3	30	1800	30
JUL										
13...	85	492	.74	.22	--	--	--	20	2300	--
22...	--	--	--	--	--	--	--	--	--	--
AUG										
10...	39	272	.59	.22	--	<10	--	<10	1400	--
27...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	39	455	.26	.19	<3	<10	<3	20	1000	10

07264000 BAYOU METO NEAR LONOKE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT										
13...	520	20	.00	.00	.00	.00	.00	.00	--	--
NOV										
12...	390	<10	--	--	--	--	--	--	--	--
DEC										
15...	200	<10	--	--	--	--	--	--	--	--
JAN										
21...	130	10	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	330	20	.00	.00	.01	.00	.00	.00	.00	<1
20...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	300	10	--	--	--	--	--	--	--	--
APR										
06...	220	<10	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	500	20	--	--	--	--	--	--	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
14...	720	40	--	--	--	--	--	--	--	--
JUL										
13...	530	30	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
AUG										
10...	480	<10	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	440	20	--	--	--	--	--	--	--	--

07264050 BAYOU TWO PRAIRIE NEAR CABOT, AR

LOCATION.--Lat 34°51'38", long 91°58'45", in SW¼NW¼ sec.28, T.3 N., R.9 W., Lonoke County, at bridge on State Highway 89, 8.4 mi (13.5 km) south of Cabot.

DRAINAGE AREA.--84.9 mi² (220 km²).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
13...	9827	9827	2.0	178	7.2	30.0	23.0	40	10	4.5
NOV										
12...	9827	9827	5.0	135	7.2	13.0	13.0	80	10	7.8
DEC										
15...	9827	9827	20	88	7.0	4.0	11.0	90	20	6.9
JAN										
29...	9827	9827	410	67	6.6	5.0	4.0	80	30	9.1
FEB										
26...	9827	9827	--	56	6.4	11.0	12.0	150	30	5.6
MAR										
25...	9827	9827	25	80	6.8	14.0	13.0	90	30	7.1
APR										
22...	9827	9827	12	114	7.0	19.0	16.0	100	40	6.4
MAY										
26...	9827	9827	2.0	220	7.5	14.0	17.0	60	90	5.9
JUN										
24...	9827	9827	55	86	6.8	26.0	22.0	80	65	5.7
JUL										
20...	9827	9827	.00	152	7.2	27.0	25.0	50	55	2.7
AUG										
17...	9827	9827	2.0	206	7.3	25.0	25.0	80	80	5.2
SEP										
21...	9827	9827	.00	269	7.5	18.0	19.0	45	20	4.2

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
13...	52	2.5	--	750	1600	64	2	12	30	8.0
NOV										
12...	74	1.5	1300	340	--	--	--	--	--	--
DEC										
15...	62	1.8	3600	810	860	--	--	--	--	--
JAN										
29...	70	2.2	1400	290	--	22	9	5.0	12	2.0
FEB										
26...	52	3.4	230	88	--	--	--	--	--	--
MAR										
25...	67	6.3	200	53	--	--	--	--	--	--
APR										
22...	64	1.8	730	310	--	30	5	6.0	16	3.0
MAY										
26...	61	5.0	330	250	--	--	--	--	--	--
JUN										
24...	65	2.6	<7	180	--	--	--	--	--	--
JUL										
20...	32	6.8	600	88	400	--	--	12	30	--
AUG										
17...	62	7.6	1600	1200	2200	--	--	--	--	--
SEP										
21...	45	6.4	1100	190	900	--	--	--	--	--

07264050 BAYOU TWO PRAIRIE NEAR CABOT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 13...	15	2.9	76	0	62	7.7	9.0	21	123	13
NOV 12...	--	--	--	--	--	--	11	20	129	9
DEC 15...	--	--	--	--	--	--	18	14	105	13
JAN 29...	6.0	2.4	16	0	13	6.4	5.0	10	90	11
FEB 26...	--	--	--	--	--	--	4.0	8.0	97	7
MAR 25...	--	--	--	--	--	--	2.0	10	104	29
APR 22...	8.4	3.1	31	0	25	5.0	<1.0	12	98	62
MAY 26...	--	--	--	--	--	--	2.0	15	155	51
JUN 24...	--	--	--	--	--	--	10	12	91	95
JUL 20...	9.2	3.0	66	0	54	6.7	<1.0	9.5	133	53
AUG 17...	--	--	--	--	--	--	<1.0	23	155	123
SEP 21...	--	--	--	--	--	--	4.0	29	162	21

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 13...	136	<.10	.06	<3	<10	0	10	470	<10	740
NOV 12...	138	.11	.48	--	--	--	<10	1400	--	220
DEC 15...	118	.12	.42	--	--	--	<10	1500	--	66
JAN 29...	101	.14	.16	<3	<10	10	10	1500	30	110
FEB 26...	104	<.10	.16	--	--	--	<10	1600	20	150
MAR 25...	133	.19	.33	--	--	--	<10	2900	--	850
APR 22...	160	.25	.29	<3	<10	<3	<10	3300	<10	880
MAY 26...	206	.26	.15	--	--	--	<10	2200	--	1100
JUN 24...	186	--	.21	--	--	--	<10	3100	--	510
JUL 20...	186	.13	.42	<3	<10	<3	<10	4300	20	13000
AUG 17...	278	.17	.48	--	<10	--	<10	3800	--	2200
SEP 21...	183	.27	.29	--	10	--	50	1200	--	990

07264050 BAYOU TWO PRAIRIE NEAR CABOT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
13...	40	.00	.00	.00	.00	.00	.00	--	--
NOV									
12...	<10	--	--	--	--	--	--	--	--
DEC									
15...	<10	--	--	--	--	--	--	--	--
JAN									
29...	30	--	--	--	--	--	--	--	--
FEB									
26...	<10	--	--	--	--	--	--	--	--
MAR									
25...	<10	--	--	--	--	--	--	--	--
APR									
22...	<10	--	--	--	--	--	--	--	--
MAY									
26...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JUN									
24...	<10	.00	.00	.00	.00	--	.00	.00	<1
JUL									
20...	50	.00	.00	.00	.00	.00	.00	.00	<1
AUG									
17...	80	.00	.00	.00	.00	.00	.00	.00	<1
SEP									
21...	50	.00	.00	.00	.00	.00	.00	.00	<1

07265099 BAYOU METO NEAR BAYOU METO, AR

LOCATION.--Lat 34°12'07", long 91°31'50", in SE¼NE¼ sec.3, T.6 S., R.5 W., at Arkansas-Jefferson County line, at bridge on State Highway 11, 1.6 mi (2.6 km) southwest of Bayou Meto.

DRAINAGE AREA.--794 mi^2 (2,056 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
27...	9827	9827	.00	299	7.5	7.0	17.0	20	10	5.1
DEC										
01...	9827	9827	.00	269	7.7	<2.0	9.0	40	15	7.4
29...	9827	9827	28	241	7.4	12.0	7.0	45	20	8.0
JAN										
06...	9827	9827	1100	305	7.5	1.0	4.0	80	60	9.9
FEB										
03...	9827	9827	980	177	7.4	<1.0	6.0	200	140	9.1
MAR										
02...	9827	9827	1800	110	7.1	18.0	16.0	200	180	6.2
APR										
05...	9827	9827	1800	128	7.0	8.0	17.0	250	160	6.5
MAY										
25...	9827	9827	210	229	7.4	20.0	23.0	100	110	4.8
JUN										
14...	9827	9827	58	218	7.3	25.0	25.0	80	190	4.4
JUL										
12...	9827	9827	720	159	7.3	26.0	27.0	100	85	4.4
AUG										
09...	9827	9827	.00	338	7.6	20.0	25.0	20	35	3.6
SEP										
13...	9827	9827	460	345	7.6	28.0	23.0	40	40	5.5

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
27...	53	1.1	200	<13	20	110	12	24	60	12
DEC										
01...	64	1.6	600	360	550	--	--	--	--	--
29...	65	1.2	170	100	--	--	--	--	--	--
JAN										
06...	76	2.5	--	160	120	--	--	--	--	--
FEB										
03...	73	2.6	500	69	100	--	--	--	--	--
MAR										
02...	62	2.2	280	100	--	38	11	10	24	3.0
APR										
05...	67	2.2	230	190	120	--	--	--	--	--
MAY										
25...	55	2.5	<33	55	38	--	--	--	--	--
JUN										
14...	52	3.5	500	90	140	72	17	16	40	8.0
JUL										
12...	54	2.0	340	64	90	--	--	--	--	--
AUG										
09...	43	2.8	60	20	20	--	--	--	--	--
SEP										
13...	63	2.0	200	120	--	140	42	35	88	13

07265099 BAYOU METO NEAR BAYOU METO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
27...	24	3.9	120	0	98	6.1	17	38	195	8
DEC										
01...	--	--	--	--	--	--	14	32	190	8
29...	--	--	--	--	--	--	23	34	166	12
JAN										
06...	--	--	--	--	--	--	14	56	191	54
FEB										
03...	--	--	--	--	--	--	8.0	28	215	68
MAR										
02...	8.3	6.0	33	0	27	4.2	5.0	13	233	99
APR										
05...	--	--	--	--	--	--	5.0	14	203	91
MAY										
25...	--	--	--	--	--	--	6.0	26	199	52
JUN										
14...	12	6.2	67	0	55	5.4	5.0	18	226	122
JUL										
12...	--	--	--	--	--	--	1.0	13	155	82
AUG										
09...	--	--	--	--	--	--	43	22	207	31
SEP										
13...	19	4.8	120	0	98	4.8	13	27	223	51

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
27...	203	.22	.06	<3	<10	0	<10	460	<10	260
DEC										
01...	198	.23	.03	--	--	--	<10	770	--	170
29...	178	.19	.08	--	--	--	<10	960	--	160
JAN										
06...	245	.87	.18	--	--	--	<10	2400	--	110
FEB										
03...	283	.28	.27	--	--	--	<10	4600	--	100
MAR										
02...	332	.33	.29	<3	<10	<3	<10	10000	<10	190
APR										
05...	294	.61	.31	--	--	--	<10	8400	--	220
MAY										
25...	251	.63	.15	--	--	--	<10	3400	--	260
JUN										
14...	348	.78	.30	<3	<10	<3	<10	6700	10	280
JUL										
12...	237	.46	.22	--	--	--	20	5500	--	180
AUG										
09...	238	.67	.17	--	<10	--	<10	1500	--	420
SEP										
13...	274	.21	.15	<3	<10	<3	<10	2000	<10	260

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
27...	20	.00	.00	.00	.01	.01	.00	.00	<1
DEC									
01...	<10	--	--	--	--	--	--	--	--
29...	<10	--	--	--	--	--	--	--	--
JAN									
06...	<10	--	--	--	--	--	--	--	--
FEB									
03...	20	.00	.00	.00	.00	.00	.00	.00	<1
MAR									
02...	30	--	--	--	--	--	--	--	--
APR									
05...	20	--	--	--	--	--	--	--	--
MAY									
25...	10	--	--	--	--	--	--	--	--
JUN									
14...	20	.00	.00	.01	.01	.02	.00	.00	<1
JUL									
12...	<10	.00	.00	.00	.00	.01	.00	.00	<1
AUG									
09...	<10	.00	.00	.00	.01	.01	.00	.00	<1
SEP									
13...	10	.00	.00	.00	.00	.01	.00	.03	<1

07265283 ARKANSAS RIVER AT DAM NO. 2, NEAR GILLETT, AR

LOCATION.--Lat 35°58'18", long 91°18'59", in sec.20, T.8 S., R.3 W., Arkansas County, 2.0 mi (3.2 km) downstream from Arkansas Post Canal, and 9.8 mi (15.8 km) southeast of Gillett.

DRAINAGE AREA.--160,475 mi^2 (415,630 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)
OCT										
27...	9827	9827	--	1810	510	8.0	14.0	17.0	25	10
DEC										
01...	9827	9827	--	9200	569	8.1	3.0	9.0	30	15
29...	9827	9827	--	16500	419	7.9	10.0	8.0	30	15
JAN										
06...	9827	9827	36500	--	357	8.0	4.0	5.0	40	30
FEB										
03...	9827	9827	--	16600	349	7.9	7.0	6.0	45	40
MAR										
02...	9827	9827	--	12800	279	7.7	23.0	15.0	70	70
APR										
05...	9827	9827	--	16500	364	7.8	13.0	16.0	60	35
MAY										
25...	9827	9827	--	40200	483	7.9	23.0	22.0	70	65
JUN										
14...	9827	9827	--	.00	812	7.9	30.0	21.0	30	30
JUL										
12...	9827	9827	--	92400	862	8.0	29.0	28.0	20	40
AUG										
09...	9827	9827	--	3800	501	8.6	27.0	26.0	20	15
SEP										
13...	9827	9827	--	1900	513	8.0	24.0	25.0	20	10

DATE	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)
OCT										
27...	7.7	79	1.0	40	7	7	120	5	37	92
DEC										
01...	10.7	92	2.9	25	54	67	--	--	--	--
29...	11.3	95	2.2	350	20	--	--	--	--	--
JAN										
06...	11.8	92	2.0	--	800	160	--	--	--	--
FEB										
03...	10.8	86	1.9	340	9	20	--	--	--	--
MAR										
02...	8.5	83	1.6	120	5	--	74	16	21	52
APR										
05...	10.3	103	2.5	530	100	5	--	--	--	--
MAY										
25...	8.8	100	2.5	33	140	10	--	--	--	--
JUN										
14...	8.4	93	2.5	250	8	<5	130	40	38	96
JUL										
12...	7.1	90	1.5	--	140	12	--	--	--	--
AUG										
09...	10.4	127	3.2	130	<5	<5	--	--	--	--
SEP										
13...	6.7	80	1.9	20	<5	--	160	53	46	120

07265283 ARKANSAS RIVER AT DAM NO. 2, NEAR GILLETT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)
OCT										
27...	8.0	62	4.0	140	0	115	2.2	100	98	338
DEC										
01...	--	--	--	--	--	--	--	58	95	341
29...	--	--	--	--	--	--	--	36	66	271
JAN										
06...	--	--	--	--	--	--	--	25	48	208
FEB										
03...	--	--	--	--	--	--	--	27	52	208
MAR										
02...	5.0	27	3.9	71	0	58	2.3	18	38	198
APR										
05...	--	--	--	--	--	--	--	19	60	223
MAY										
25...	--	--	--	--	--	--	--	32	72	285
JUN										
14...	8.0	100	5.0	110	0	90	2.2	43	180	467
JUL										
12...	--	--	--	--	--	--	--	54	140	476
AUG										
09...	--	--	--	--	--	--	--	44	62	268
SEP										
13...	12	47	4.0	130	0	107	2.1	32	64	308

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)
OCT										
27...	13	351	.15	.06	<3	<10	0	<10	280	<10
DEC										
01...	52	393	<.10	.06	--	--	--	<10	740	--
29...	26	297	.20	.10	--	--	--	<10	410	--
JAN										
06...	14	222	.38	.07	--	--	--	<10	950	--
FEB										
03...	44	252	.42	.10	--	--	--	<10	1600	--
MAR										
02...	42	240	.36	.14	<3	<10	<3	<10	3800	10
APR										
05...	31	254	.14	.13	--	--	--	<10	1500	--
MAY										
25...	36	321	.40	.10	--	--	--	<10	2100	--
JUN										
14...	35	502	.31	.06	<3	<10	<3	10	1000	40
JUL										
12...	83	569	.45	.09	--	--	--	10	2000	--
AUG										
09...	28	296	.10	.08	--	<10	--	<10	320	--
SEP										
13...	3	311	<.10	.08	<3	<10	<3	<10	510	10

07265283 ARKANSAS RIVER AT DAM NO. 2, NEAR GILLETT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT										
27...	91	40	.00	.00	.00	.00	.00	.00	.00	<1
DEC										
01...	82	<10	--	--	--	--	--	--	--	--
29...	180	<10	--	--	--	--	--	--	--	--
JAN										
06...	160	10	--	--	--	--	--	--	--	--
FEB										
03...	130	20	.00	.00	.00	.00	.00	.00	.00	<1
MAR										
02...	160	20	--	--	--	--	--	--	--	--
APR										
05...	190	30	--	--	--	--	--	--	--	--
MAY										
25...	140	20	--	--	--	--	--	--	--	--
JUN										
14...	110	40	.00	.00	.00	.00	.00	.00	.00	<1
JUL										
12...	200	30	.00	.00	.00	.00	.00	.00	.00	<1
AUG										
09...	66	<10	.00	.00	.00	.00	.00	.00	.00	<1
SEP										
13...	130	20	.00	.00	.00	.00	.01	.00	.06	<1

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR

LOCATION.--Lat 33°33'27", long 91°14'15", sec.18, T.13 S., R.1 W., Chicot County (revised), on right bank 3.0 mi (4.8 km) southwest of Arkansas City, and at mile 554.1 (891.5 km).

DRAINAGE AREA.--1,130,600 mi^2 (2,928,300 km^2) approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1975 in reports of Geological Survey. Gage-height records since 1879 are contained in reports of Mississippi River Commission, and National Weather Service. Intermittent records of discharge since 1884 and daily discharge since Jan. 1, 1928, in reports of Mississippi River Commission.

GAGE.--Nonrecording gage. Datum of gage is 96.66 ft (29.462 m) above mean sea level. Prior to Sept. 3, 1930, at site 4.0 mi (6.4 km) upstream, Sept. 3, 1930, to Feb. 29, 1944, at site 1.9 mi (3.1 km) upstream, and Mar. 1, 1944, to Oct. 31, 1948, at site 1.2 mi (1.9 km) upstream, all present datum.

REMARKS.--Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--47 years, 552,200 ft^3/s (15,600 m^3/s), 400,100,000 acre-ft/yr (493 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,159,000 ft^3/s (61,100 m^3/s) Feb. 16, 1937; maximum gage height, 53.86 ft (16.417 m) Feb. 17, 1937; minimum discharge, 88,200 ft^3/s (2,500 m^3/s) Oct. 31, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of 1927 was the greatest since at least 1879. A stage of 60.4 ft (18.41 m) occurred on Apr. 21, 1927, prior to levee breaks, at site used prior to 1930, and a discharge of about 2,472,000 ft^3/s (70,000 m^3/s) occurred in early May.

EXTREMES FOR WATER YEAR 1975.--Maximum daily discharge, 1,840,000 ft^3/s (52,100 m^3/s) Apr. 9; maximum gage height, 42.85 ft (13.061 m) Apr. 10; minimum daily discharge, 233,000 ft^3/s (6,600 m^3/s) Oct. 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	341000	259000	646000	618000	820000	1140000	1730000	1050000	740000	567000	353000	266000
2	317000	268000	647000	634000	823000	1150000	1750000	1080000	714000	559000	343000	272000
3	308000	281000	638000	708000	887000	1170000	1770000	1110000	698000	569000	331000	283000
4	303000	299000	611000	771000	932000	1180000	1790000	1150000	671000	573000	321000	299000
5	303000	320000	580000	819000	970000	1190000	1800000	1180000	649000	569000	313000	324000
6	305000	349000	541000	850000	999000	1200000	1810000	1190000	635000	559000	313000	340000
7	306000	373000	588000	868000	1020000	1220000	1820000	1190000	629000	546000	327000	350000
8	304000	414000	549000	881000	1050000	1220000	1830000	1200000	628000	534000	331000	361000
9	302000	441000	566000	891000	1060000	1230000	1840000	1200000	639000	522000	314000	376000
10	298000	500000	581000	898000	1080000	1230000	1830000	1200000	645000	520000	298000	382000
11	292000	556000	596000	900000	1090000	1230000	1810000	1210000	642000	527000	279000	377000
12	285000	595000	608000	903000	1090000	1230000	1800000	1210000	638000	532000	279000	365000
13	270000	622000	604000	905000	1100000	1240000	1780000	1210000	626000	510000	309000	342000
14	249000	641000	601000	910000	1100000	1250000	1760000	1210000	605000	489000	307000	318000
15	233000	636000	604000	913000	1100000	1270000	1720000	1210000	604000	471000	294000	307000
16	235000	628000	619000	929000	1100000	1290000	1670000	1210000	610000	458000	278000	302000
17	237000	622000	633000	953000	1100000	1300000	1620000	1200000	611000	440000	269000	307000
18	245000	618000	647000	983000	1090000	1320000	1560000	1190000	608000	424000	270000	316000
19	248000	616000	642000	1010000	1080000	1330000	1480000	1180000	606000	409000	279000	329000
20	250000	614000	639000	1040000	1060000	1340000	1410000	1160000	613000	390000	281000	341000
21	254000	616000	633000	1040000	1000000	1360000	1300000	1120000	623000	375000	291000	358000
22	257000	617000	628000	1020000	955000	1370000	1230000	1070000	639000	374000	307000	366000
23	265000	617000	622000	987000	933000	1390000	1140000	1030000	650000	373000	319000	359000
24	287000	616000	619000	950000	923000	1410000	1070000	988000	657000	373000	329000	351000
25	291000	621000	615000	912000	933000	1430000	990000	954000	653000	374000	324000	349000
26	284000	622000	612000	870000	941000	1460000	902000	921000	650000	373000	318000	369000
27	274000	626000	610000	853000	1040000	1500000	892000	889000	645000	371000	308000	389000
28	263000	630000	609000	844000	1100000	1520000	905000	858000	635000	372000	291000	401000
29	252000	636000	608000	838000	---	1560000	973000	828000	611000	370000	280000	409000
30	252000	641000	607000	830000	---	1630000	1020000	794000	579000	367000	270000	414000
31	253000	---	609000	823000	---	1700000	---	769000	---	361000	266000	---
TOTAL	8563000	15894000	18912000	27351000	28376000	41060000	45002000	33761000	19153000	14251000	9392000	10322000
MEAN	276200	529800	610100	882300	1013000	1325000	1500000	1089000	638400	459700	303000	344100
MAX	341000	641000	647000	1040000	1100000	1700000	1840000	1210000	740000	573000	353000	414000
MIN	233000	259000	541000	618000	820000	1140000	892000	769000	579000	361000	266000	266000
AC-FT	16980000	31530000	37510000	54250000	56280000	81440000	89260000	66960000	37990000	28270000	18630000	20470000

CAL YR 1974 TOTAL 283735000 MEAN 777400 MAX 1490000 MIN 233000 AC-FT 562800000
WTR YR 1975 TOTAL 272037000 MEAN 745300 MAX 1840000 MIN 233000 AC-FT 539600000

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued
(National stream-quality accounting network)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to current year.
WATER TEMPERATURES: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 515 micromhos June 27, 1976; minimum, 236 micromhos April 14, 1975.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 26, 27, 1975, July 26-Aug. 1, 1976; minimum, 3.0°C Jan. 9, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 515 micromhos June 27; minimum, 290 micromhos Jan. 16, 17.
WATER TEMPERATURES: Maximum, 30.0°C July 26-Aug. 1; minimum, 3.0°C Jan. 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)
OCT												
09...	1028	1028	360000	439	7.4	20.5	45	--	400	150	49	41
NOV												
20...	1028	1028	425000	425	7.7	14.5	19	--	420	150	37	39
DEC												
11...	1028	1028	551000	385	7.3	8.0	65	--	B330	140	42	37
JAN												
14...	1028	1028	873000	299	7.7	4.5	130	B670	200	120	40	34
FEB												
11...	1028	1028	588000	349	7.6	5.5	50	310	88	130	41	37
MAR												
11...	1028	1028	889000	330	8.1	11.5	29	1500	670	130	35	35
APR												
07...	1028	1028	806000	314	8.0	16.0	98	330	180	120	33	34
MAY												
05...	1028	1028	608000	470	7.7	17.0	180	2400	200	140	34	37
JUN												
10...	1028	1028	633000	480	7.5	25.0	70	2000	--	150	48	40
JUL												
15...	1028	1028	471000	431	7.7	29.0	50	B1900	250	130	30	35
AUG												
12...	1028	1028	260000	420	7.7	28.0	30	B50	--	160	52	44
SEP												
10...	1028	1028	291000	410	7.8	26.0	15	B200	320	140	33	38

DATE	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
09...	12	26	27	.9	3.4	125	0	103	8.0	86	17
NOV											
20...	12	23	25	.8	3.1	134	0	110	4.3	74	15
DEC											
11...	12	20	23	.7	2.9	122	0	100	9.8	56	16
JAN											
14...	8.7	12	17	.5	2.7	99	0	81	3.2	44	12
FEB											
11...	9.6	15	19	.6	3.0	111	0	91	4.5	45	18
MAR											
11...	10	12	17	.5	2.7	114	0	94	1.4	39	15
APR											
07...	9.6	12	17	.5	2.8	112	0	92	1.8	40	14
MAY											
05...	12	15	18	.5	3.4	131	0	107	4.2	50	15
JUN											
10...	13	22	23	.8	2.8	129	0	106	6.5	59	27
JUL											
15...	10	26	30	1.0	2.8	120	0	98	3.8	52	32
AUG											
12...	13	20	21	.7	3.0	136	0	112	4.3	66	23
SEP											
10...	12	23	25	.8	3.2	136	0	112	3.4	64	20

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT											
09...	.2	5.5	263	253	.36	256000	.76	.84	1.6	7.1	.19
NOV											
20...	.3	5.0	250	237	.34	287000	.63	.87	1.5	6.6	.13
DEC											
11...	.3	4.9	230	209	.31	342000	.75	1.2	2.0	8.6	.24
JAN											
14...	.1	5.6	175	168	.24	412000	1.1	1.2	2.3	10	.32
FEB											
11...	.2	5.8	211	188	.29	335000	1.2	1.1	2.3	10	.19
MAR											
11...	.2	6.5	187	177	.25	449000	1.8	1.2	3.0	13	.28
APR											
07...	.1	5.8	198	174	.27	431000	1.6	1.2	2.8	12	.27
MAY											
05...	.3	5.8	212	203	.29	348000	1.7	2.2	3.9	17	.48
JUN											
10...	.2	3.8	240	231	.33	410000	1.5	.79	2.3	10	.27
JUL											
15...	.2	4.3	247	221	.34	314000	1.2	.65	1.9	8.2	.25
AUG											
12...	.2	1.3	239	238	.33	168000	.62	.56	1.2	5.2	.13
SEP											
10...	.2	2.5	238	230	.32	187000	.31	.81	1.1	5.0	.19

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
OCT											
09...	4	3	1	10	9	1	10	0	10	<50	<50
JAN											
14...	6	5	1	<10	<10	0	20	20	0	<50	<50
APR											
07...	4	4	0	<10	<9	1	10	10	0	<50	<48
JUL											
15...	--	--	2	<10	<9	1	10	10	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT											
09...	0	20	17	3	3100	0	0	0	0	220	210
JAN											
14...	0	50	44	6	7600	30	<100	<99	1	430	430
APR											
07...	2	40	33	7	5600	20	<100	<100	0	290	290
JUL											
15...	0	60	54	6	5400	20	<100	<100	0	250	250

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS-PENDED MERCURY (HG) (UG/L) (71895)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
OCT										
09...	10	.0	.0	.0	0	0	0	10	0	10
JAN										
14...	0	.0	.0	.0	1	1	0	130	130	0
APR										
07...	0	.0	.0	.0	0	0	0	70	70	0
JUL										
15...	0	.0	.0	.0	1	0	1	50	50	0

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	SUS-PENDED SEDI-MENT (MG/L) (80154)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT				
09...	5.0	97	94300	93
NOV				
20...	--	85	97500	85
DEC				
11...	--	137	204000	97
JAN				
14...	7.0	249	587000	92
FEB				
11...	--	97	154000	96
MAR				
11...	--	190	456000	96
APR				
07...	--	184	400000	97
MAY				
05...	--	548	900000	98
JUN				
10...	--	162	277000	98
JUL				
15...	--	176	224000	97
AUG				
12...	--	77	54100	98
SEP				
10...	--	74	58100	96

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCT. 9, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...CHARACIACEAE			
	....SCHROEDERIA		130	3
	...OOCYSTACEAE			
	....ANKISTRODESMUS		130	3
		TOTALS	270	6
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,500	32
D	....MELOSIRA		1,900	41
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		130	3
	...NITZSCHIACEAE			
	....NITZSCHIA		270	6
		TOTALS	3,700	82
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		530	12
		TOTALS	530	12

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.834
CLASS	0.834
ORDER	1.239
FAMILY	1.379
GENERA	2.106

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NOV. 20, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

8,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		140	2
	....CHODATELLA		140	2
L	....OOCYSTIS			0
	...SCENEDESMACEAE			
	....ACTINASTRUM		570	7
	....SCENEDESMUS		280	3
		TOTALS	1,100	14
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,400	17
D	....MELOSIRA		5,400	63
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		140	2
	...NITZSCHIACEAE			
	....NITZSCHIA		430	5
		TOTALS	7,400	87

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.567
CLASS	0.567
ORDER	0.906
FAMILY	1.068
GENERA	1.784

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DEC. 11, 1975
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,600 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
D	....CRUCIGENIA		580	16
	....SCENEDESMUS		290	8
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
L	....CLOSTERIUM		0	0
		TOTALS	860	24
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,200	32
D	....MELOSIRA		860	24
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....COCCONEIS		140	4
	...NAVICULACEAE	NAVICULOID		
L	....NAVICULA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		290	8
		TOTALS	2,500	68
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		290	8
		TOTALS	290	8

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.164
CLASS	1.164
ORDER	1.621
FAMILY	1.731
GENERA	2.503

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JAN. 14, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,100 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		510	47
	....MELOSIRA		150	13
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....ASTERIONELLA		73	7
	...MERIDIONACEAE			
L	....MERIDION			0
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		290	27
	...NITZSCHIACEAE			
	....NITZSCHIA		73	7
	...SURIRELLACEAE			
L	....SURIRELLA			0
		TOTALS	1,100	101

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.971
FAMILY 1.472
GENERA 1.930

FEB. 11, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,700 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		210	8
		TOTALS	210	8
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,700	63
	....MELOSIRA		360	13
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....ASTERIONELLA		290	11
L	....SYNEDRA			0
	...GOMPHONEMATACEAE			
L	....GOMPHONEMA			0
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		140	5
	...NITZSCHIACEAE			
L	....NITZSCHIA			0
	...SURIRELLACEAE			
L	....SURIRELLA			0
		TOTALS	2,500	92

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.398
CLASS 0.398
ORDER 1.007
FAMILY 1.152
GENERA 1.658

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAR. 11, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,300 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..VOLVOCALES				
	...CHLAMYDOMONADACEAE				
	....CHLAMYDOMONAS			90	7
			TOTALS	90	7
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....CYCLOTELLA			760	57
D	....MELOSIRA			220	17
L	....STEPHANODISCUS				0
	..PENNALES	PENNATE			
	...CYMBELLACEAE				
L	....CYMBELLA				0
	...NAVICULACEAE	NAVICULOID			
L	....GYROSIGMA				0
	....NAVICULA			45	3
	...NITZSCHIACEAE				
	....NITZSCHIA			180	13
			TOTALS	1,200	90
	EUGLENOPHYTA	EUGLENOIDS			
	.EUGLENOPHYCEAE				
	..EUGLENALES				
	...EUGLENACEAE				
	....EUGLENA			45	3
			TOTALS	45	3

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.561
CLASS	0.561
ORDER	1.183
FAMILY	1.303
GENERA	1.870

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APR. 7, 1976
0845 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,200 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		56	2
		TOTALS	56	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		440	14
D	....MELOSIRA		2,200	70
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
L	....ASTERIONELLA			0
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		220	7
L	....PINNULARIA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		170	5
	...SURIRELLACEAE			
	....SURIRELLA		56	2
		TOTALS	3,100	98

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.127
CLASS	0.127
ORDER	0.709
FAMILY	0.906
GENERA	1.453

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

MAY 5, 1976
0745 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,500 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		81	1
	....DICTYOSPHAERIUM		320	6
	...SCENEDESMACEAE			
D	....SCENEDESMUS		970	18
		TOTALS	1,400	25
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		2,100	38
D	....MELOSIRA		810	15
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
L	....FRAGILARIA			0
	....SYNEDRA		81	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		81	1
	...NAVICULACEAE	NAVICULOID		
	....CALONEIS		81	1
	....NAVICULA		320	6
L	....PINNULARIA			0
	...NITZSCHIACEAE			
	....NITZSCHIA		640	12
	...SURIRELLACEAE			
L	....SURIRELLA			0
		TOTALS	4,100	74

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.811
CLASS	0.811
ORDER	1.467
FAMILY	2.023
GENERA	2.581

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JUNE 10, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,400 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...HYDRODICTYACEAE				
D	....PEDIASTRUM			1,800	53
	...OOCYSTACEAE				
	....KIRCHNERIELLA			170	5
	...SCENEDESMACEAE				
D	....SCENEDESMUS			560	17
			TOTALS	2,500	75
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
	....CYCLOTELLA			170	5
	....MELOSIRA			400	12
	....STEPHANODISCUS			110	3
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			56	2
	...NITZSCHIACEAE				
	....NITZSCHIA			56	2
	...SURIRELLACEAE				
	....SURIRELLA			56	2
			TOTALS	850	26

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.811
CLASS	0.811
ORDER	0.992
FAMILY	1.890
GENERA	2.167

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JULY 15, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

5,800 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
	....ACTINASTRUM		420	7
		TOTALS	420	7
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,900	33
	....MELOSIRA		730	13
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....SYNEDRA		210	4
	...NAVICULACEAE	NAVICULOID		
	....DIPLONEIS		100	2
	....NAVICULA		100	2
	...NITZSCHIACEAE			
	....NITZSCHIA		100	2
		TOTALS	3,100	56
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		2,100	36
		TOTALS	2,100	36
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
	....PHACUS		100	2
		TOTALS	100	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.388
CLASS	1.388
ORDER	1.742
FAMILY	1.881
GENERA	2.306

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

AUG. 12, 1976
0900 HOURS

IDENTIFICATION OF PHYTOPLANKTON

17,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....CHODATELLA		110	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		220	1
	....TETRASTRUM		110	1
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		110	1
		TOTALS	560	4
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		2,300	13
D	....MELOSIRA		3,600	21
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
	....NITZSCHIA		1,400	8
		TOTALS	7,300	42
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		9,400	54
		TOTALS	9,400	54

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.161
CLASS	1.161
ORDER	1.487
FAMILY	1.508
GENERA	1.855

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SEP. 10, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

21,000 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____		CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE			
	.CHLOROPHYCEAE				
	..CHLOROCOCCALES				
	...OOCYSTACEAE				
	....OOCYSTIS			160	1
	...SCENEDESMACEAE				
	....SCENEDESMUS			1,300	6
			TOTALS	1,500	7
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
	....CYCLOTELLA			2,400	12
	....MELOSIRA			2,900	14
	....STEPHANODISCUS			490	2
	..PENNALES	PENNATE			
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA			160	1
	...NITZSCHIACEAE				
	....NITZSCHIA			1,100	5
			TOTALS	7,200	34
	CYANOPHYTA	BLUE-GREEN ALGAE			
	.MYXOPHYCEAE				
	..OSCILLATORIALES	FILAMENTOUS			
	...OSCILLATORIACEAE				
D	....OSCILLATORIA			12,000	59
			TOTALS	12,000	59

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.251
CLASS	1.251
ORDER	1.486
FAMILY	1.555
GENERA	1.928

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	367	419	381	344	313	344	442	455	401	400	470
2	401	374	414	367	321	309	344	429	458	396	396	459
3	420	372	414	365	315	305	341	414	461	383	387	442
4	449	371	417	362	320	307	342	389	477	389	399	435
5	453	377	406	349	318	308	336	365	494	405	406	420
6	437	391	405	351	319	308	327	347	508	424	411	428
7	457	406	404	344	322	309	321	341	491	429	423	422
8	452	415	406	333	330	309	318	336	473	437	438	417
9	447	424	408	329	337	308	318	335	452	485	434	414
10	451	429	397	322	341	311	321	342	444	506	435	417
11	464	423	380	305	349	316	324	351	428	510	433	420
12	462	428	378	301	355	337	328	362	432	508	415	427
13	454	424	356	300	363	334	330	373	452	478	419	453
14	453	442	349	305	369	318	344	384	437	496	422	462
15	467	440	356	302	372	313	352	391	417	444	433	454
16	452	428	368	290	368	310	368	398	421	420	434	454
17	430	420	383	290	370	306	367	409	450	420	441	485
18	418	406	382	296	368	315	376	426	449	423	453	460
19	417	406	386	308	365	313	384	430	454	429	435	448
20	406	405	390	314	365	319	381	432	483	429	438	439
21	411	419	387	314	359	328	394	422	472	421	441	448
22	418	405	385	320	366	335	412	406	454	408	449	445
23	419	396	376	318	356	346	434	391	454	408	440	462
24	407	388	382	323	322	352	450	390	443	411	434	471
25	366	389	386	323	314	357	438	402	461	410	455	453
26	356	406	378	328	313	371	417	417	501	415	433	454
27	340	418	372	338	303	374	421	420	515	414	422	484
28	343	413	376	348	305	372	427	417	509	408	433	508
29	370	407	370	348	317	368	436	425	476	403	433	454
30	376	423	374	352	---	361	458	427	437	416	428	473
31	377	---	382	353	---	355	---	440	---	413	447	---
MONTH	419	407	387	328	340	329	372	395	462	430	428	449

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	18.0	10.0	6.0	5.0	12.0	15.0	17.0	22.0	26.0	30.0	27.0
2	19.5	18.0	9.0	6.0	5.0	13.0	15.0	17.0	22.5	27.0	28.0	27.0
3	19.0	18.0	9.0	5.0	5.0	14.0	15.0	17.0	22.5	27.0	28.0	27.0
4	18.0	18.0	10.0	5.0	6.0	14.0	16.0	16.0	23.0	26.5	27.0	26.0
5	20.0	18.0	10.0	5.0	6.0	14.0	15.0	17.5	23.0	26.0	27.0	26.0
6	20.0	18.0	11.0	5.0	5.0	13.0	15.0	18.0	22.0	26.5	28.0	25.0
7	20.0	18.5	10.0	5.0	4.0	13.5	15.5	17.5	23.0	26.5	28.0	25.0
8	20.0	18.0	10.0	---	5.0	13.0	16.0	17.0	23.0	27.0	27.0	26.0
9	20.0	18.0	10.0	3.0	5.0	12.0	15.0	17.0	23.0	27.0	26.0	26.0
10	21.0	18.0	8.5	3.5	6.0	12.5	15.5	18.0	24.0	27.5	27.0	24.5
11	21.0	17.0	9.0	---	6.0	13.0	16.5	18.0	24.0	28.0	27.0	24.0
12	21.0	17.0	10.0	5.0	6.5	13.5	16.0	18.0	24.5	28.0	27.0	25.0
13	21.5	16.0	10.0	5.0	7.0	12.0	16.0	18.5	25.0	28.0	26.5	25.0
14	20.0	15.0	11.0	5.0	8.0	12.0	16.0	19.0	25.0	28.5	28.0	24.5
15	22.0	15.0	10.0	5.0	8.0	13.0	17.0	19.0	25.5	29.0	28.0	25.0
16	21.5	15.0	9.5	5.0	9.0	12.0	17.0	19.0	25.0	29.0	28.0	25.0
17	21.0	15.0	9.0	5.0	9.0	12.0	17.0	19.0	26.0	29.0	28.0	25.0
18	20.0	14.5	6.0	4.5	9.0	12.0	18.0	18.5	26.5	28.5	27.0	25.0
19	20.0	14.5	6.0	4.0	10.0	12.5	18.0	18.5	26.0	28.5	27.5	25.5
20	19.5	14.0	6.0	5.0	10.5	13.0	18.0	19.0	26.0	28.0	27.0	25.5
21	20.0	13.0	7.0	4.0	11.0	12.5	18.0	19.0	25.5	28.5	27.0	25.5
22	19.0	12.0	6.5	4.0	10.0	13.0	18.0	20.0	25.5	29.0	27.0	23.5
23	19.0	12.0	7.0	5.0	10.0	12.5	19.0	21.0	25.5	29.0	27.0	25.0
24	20.0	11.0	6.0	5.0	10.0	13.0	20.0	21.0	26.0	29.0	27.0	25.0
25	18.0	10.0	6.0	6.0	10.0	13.0	19.0	21.0	26.0	29.5	27.0	24.5
26	18.0	10.5	5.5	5.0	10.0	13.0	18.5	21.0	26.0	30.0	27.0	25.0
27	18.0	10.0	5.5	4.5	10.5	13.0	18.5	21.0	26.5	30.0	28.0	25.0
28	18.5	10.0	6.0	5.5	11.0	13.5	18.5	20.0	26.0	30.0	27.0	23.5
29	19.0	11.0	7.0	---	14.0	14.5	18.0	21.0	26.0	30.0	26.0	23.0
30	17.5	10.5	6.0	5.5	---	15.0	18.0	22.0	26.0	30.0	26.0	23.0
31	17.0	---	6.0	5.0	---	14.5	---	22.0	---	30.0	26.0	---
MONTH	19.5	15.0	8.0	5.0	8.0	13.0	17.0	19.0	24.5	28.5	27.5	25.0

07336860 RED RIVER NEAR FOREMAN, AR

LOCATION.--Lat 33°34'06", long 94°24'36", in sec.10, T.14 S., R.32 W., Little River County, at bridge on State Highway 41, 10.7 mi (17.2 km) south of Foreman.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
28...	9827	9827	4840	1010	8.1	22.0	18.0	15	20	9.4
DEC										
02...	9827	9827	3390	1060	8.0	15.0	9.0	10	20	10.9
JAN										
13...	9827	9827	5980	1260	8.0	21.0	8.0	20	50	11.6
FEB										
10...	9827	9827	3070	1140	8.2	25.0	11.0	20	10	11.6
MAR										
09...	9827	9827	7430	510	7.8	10.0	9.0	120	600	9.2
APR										
12...	9827	9827	2760	457	8.1	23.0	20.0	40	30	9.2
MAY										
11...	9827	9827	17600	409	7.9	29.0	21.0	150	200	7.5
JUN										
08...	9827	9827	11200	1440	8.3	28.0	25.0	50	90	8.5
JUL										
14...	9827	9827	3470	1300	8.2	35.0	29.0	20	20	7.5
AUG										
11...	9827	9827	3380	1290	8.0	33.0	28.0	20	30	8.9
SEP										
08...	9827	9827	3500	1440	8.2	29.0	27.0	30	50	7.5

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
28...	99	2.3	67	50	40	--	--	--	--	--
DEC										
02...	94	2.1	1000	350	400	--	--	--	--	--
JAN										
13...	98	2.4	140	73	100	300	170	78	200	25
FEB										
10...	105	4.7	34	20	20	--	--	--	--	--
MAR										
09...	79	3.5	4800	8200	--	--	--	--	--	--
APR										
12...	100	4.5	--	--	--	140	25	41	100	9.0
MAY										
11...	83	2.2	1000	370	--	--	--	--	--	--
JUN										
08...	101	2.4	<50	18	--	--	--	--	--	--
JUL										
14...	96	2.6	40	10	--	310	170	84	210	24
AUG										
11...	113	5.3	40	35	--	--	--	--	--	--
SEP										
08...	93	4.0	40	13	--	--	--	--	--	--

07336860 RED RIVER NEAR FOREMAN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 28...	--	--	--	--	--	--	330	230	757	33
DEC 02...	--	--	--	--	--	--	150	220	752	36
JAN 13...	150	7.2	160	0	131	2.6	240	240	818	121
FEB 10...	--	--	--	--	--	--	180	200	763	39
MAR 09...	--	--	--	--	--	--	66	72	318	482
APR 12...	36	3.7	140	0	115	1.8	47	42	267	63
MAY 11...	--	--	--	--	--	--	40	52	288	255
JUN 08...	--	--	--	--	--	--	180	260	851	77
JUL 14...	130	5.3	170	0	139	1.7	170	220	788	19
AUG 11...	--	--	--	--	--	--	110	200	751	23
SEP 08...	--	--	--	--	--	--	140	240	846	37

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 28...	790	.28	.08	--	--	--	--	--	--	--
DEC 02...	788	.20	.06	--	--	--	<10	1000	--	160
JAN 13...	939	.41	.11	<3	<10	<3	<10	1900	20	200
FEB 10...	802	.30	.05	--	--	--	<10	380	--	140
MAR 09...	800	.49	.15	--	--	--	30	16000	--	620
APR 12...	330	.14	.08	<3	<10	<3	<10	1700	120	190
MAY 11...	543	.47	.18	--	--	--	<10	1900	--	190
JUN 08...	928	.37	.07	--	--	--	20	2400	--	190
JUL 14...	807	.12	.07	<3	<10	<3	<10	550	20	120
AUG 11...	774	.30	.10	--	<10	--	<10	700	--	160
SEP 08...	883	.78	.10	--	<10	--	30	800	--	240

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT 28...	--	--	--	--	--	--	--	--	--
DEC 02...	<10	--	--	--	--	--	--	--	--
JAN 13...	10	--	--	--	--	--	--	--	--
FEB 10...	<10	.00	.00	.00	.00	.00	.00	.00	<1
MAR 09...	80	--	--	--	--	--	--	--	--
APR 12...	<10	--	--	--	--	--	--	--	--
MAY 11...	20	--	--	--	--	--	--	--	--
JUN 08...	20	--	--	--	--	--	--	--	--
JUL 14...	20	--	--	--	--	--	--	--	--
AUG 11...	20	--	--	--	--	--	--	--	--
SEP 08...	40	--	--	--	--	--	--	--	--

07337000 RED RIVER AT INDEX, AR

LOCATION.--Lat 33°33'07", long 94°02'28", in NW¼SW¼ sec.7, T.14 S., R.28 W., Miller County, near right bank on downstream side of bridge on U.S. Highway 71 at Index, 2.2 mi (3.5 km) south of Ogden, 20.6 mi (33.1 km) upstream from Little River, and at mile 485.3 (780.8 km).

DRAINAGE AREA.--48,030 mi^2 (124,400 km^2), of which 5,936 mi^2 (15,370 km^2) is probably noncontributing.

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

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.87 ft (75.246 m) above mean sea level. Prior to Dec. 12, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation by Lake Texoma (Texas), 241 mi (388 km) upstream since Oct. 31, 1943, capacity, 5,392,900 acre-ft (6,650 hm^3), by Pat Mayse Lake (Texas) since Sept. 28, 1967, capacity, 352,700 acre-ft (435 hm^3), and by Hugo Lake (Oklahoma) since Jan. 18, 1974, capacity, 966,700 acre-ft (1,190 hm^3).

AVERAGE DISCHARGE.--40 years, 11,990 ft^3/s (340 m^3/s), 8,687,000 acre-ft/yr (10,700 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 297,000 ft^3/s (8,410 m^3/s) Feb. 23, 1938, gage height, 34.25 ft (10.439 m); minimum, 378 ft^3/s (10.7 m^3/s) Nov. 28, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40,800 ft^3/s (1,160 m^3/s) Apr. 24, gage height, 14.96 ft (4.560 m); minimum daily, 1,710 ft^3/s (48.4 m^3/s) Jan. 24.

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	4890	3770	3890	4520	3020	4500	3170	26700	11100	8190	4430	4380
2	3740	3930	3720	5080	3250	3580	2820	20800	12300	7580	4400	4430
3	2730	3370	2960	5410	2840	3050	2640	14700	12000	7620	4170	4160
4	2610	2670	3360	5550	2580	2590	3830	12400	13800	9560	4120	3650
5	3090	2630	4240	5120	2340	2280	4250	11000	16900	12600	4090	3050
6	3190	3460	5910	4350	2080	2090	3590	11800	15500	14300	4200	2970
7	3060	3430	6480	4460	1940	1980	3040	16100	13300	12800	4070	3010
8	2950	2880	5310	4690	2490	6110	2940	20700	12600	9420	3620	3120
9	2800	2870	4030	3720	2550	14200	3120	26400	11700	6240	2890	3440
10	2310	2330	3300	3350	2460	12700	3050	26200	10800	4790	2550	3870
11	2000	1980	3290	4190	2660	9400	2870	21400	9620	4180	3290	3260
12	2250	1940	3540	5330	3100	13700	3140	17300	8030	4250	3680	2830
13	2810	2550	3270	6590	2620	19800	3040	14800	7420	4630	3600	2880
14	3210	2400	3250	6190	2110	17600	2910	13800	7790	4480	2990	3110
15	3580	1950	3010	4200	2020	14000	2900	15000	6840	4100	3650	2940
16	3400	2250	3060	2750	2310	12000	2960	17300	5590	3460	4110	2780
17	2450	2200	3360	2240	2470	10200	3000	17800	5130	3170	3700	2800
18	1920	1850	3370	2550	3230	7700	3190	17700	5230	3730	3640	2690
19	2170	1850	2580	2360	3480	5650	3270	17400	9090	4710	4120	3820
20	2840	2650	2290	2200	2760	4490	4260	17400	12400	7630	3830	4470
21	3030	2830	3140	2130	2150	4020	9630	16000	13500	12600	3180	4540
22	3070	2390	3590	2100	2570	4020	22800	13800	14800	10900	3050	4730
23	2980	2560	4150	1920	4320	3520	33100	11900	13500	7280	3230	4990
24	2330	3270	4230	1710	4300	3090	39000	9790	9050	5600	3380	4570
25	1940	3540	3760	1750	3750	2850	39500	8960	6390	5600	3660	3360
26	2750	3990	3450	2090	3590	2710	37200	8550	6530	5160	3470	2930
27	3980	4680	3680	2360	3480	2650	36100	9990	7220	5260	2930	3220
28	4470	4310	3880	2360	3690	2750	34600	10100	6970	5620	2420	3060
29	4730	3300	4010	2200	4500	2940	32700	8620	7410	5630	2420	3050
30	4490	3480	3750	1900	---	3350	30000	8710	8590	5260	3110	3560
31	3840	---	3680	1790	---	3420	---	9040	---	4800	3870	---
TOTAL	95610	87310	115540	107160	84660	202940	378620	472160	301100	211150	109870	105670
MEAN	3084	2910	3727	3457	2919	6546	12620	15230	10040	6811	3544	3522
MAX	4890	4680	6480	6590	4500	19800	39500	26700	16900	14300	4430	4990
MIN	1920	1850	2290	1710	1940	1980	2640	8550	5130	3170	2420	2690
AC-FT	189600	173200	229200	212600	167900	402500	751000	936500	597200	418800	217900	209600

CAL YR 1975	TOTAL	5125210	MEAN	14040	MAX	55900	MIN	1850	AC-FT	10170000
WTR YR 1976	TOTAL	2271790	MEAN	6207	MAX	39500	MIN	1710	AC-FT	4506000

07339500 ROLLING FORK NEAR DEQUEEN, AR

LOCATION.--Lat 34°02'51", long 94°24'47", in SW¼SW¼ sec.21, T.8 S., R.32 W., Sevier County, near center of span on downstream side of bridge on U.S. Highway 70, 4.0 mi (6.4 km) west of DeQueen, 6.0 mi (9.7 km) upstream from Rock Creek, and at mile 17.0 (27.4 km).

DRAINAGE AREA.--181 mi^2 (469 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 318.24 ft (97.000 m) above mean sea level. Prior to Dec. 16, 1948, nonrecording gage at present site and datum.

REMARKS.--Records good. Some regulation due to construction at DeQueen Lake.

AVERAGE DISCHARGE.--28 years, 292 ft^3/s (8.27 m^3/s), 211,600 acre-ft/yr (261 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,000 ft^3/s (2,010 m^3/s) Dec. 10, 1971, gage height, 24.23 ft (7.385 m), from floodmark; no flow at times in 1948, 1954, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 27, 1947, reached a stage of 25.6 ft (7.80 m), from floodmarks, discharge, 110,000 ft^3/s (3,120 m^3/s), from contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,560 ft^3/s (101 m^3/s) Mar. 9, gage height, 12.18 ft (3.712 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Oct. 26, 27, 31, and Nov. 1.

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	4.6	1.2	15	144	17	50	243	73	153	135	7.3	4.5
2	4.0	1.5	15	108	16	45	184	58	320	253	35	173
3	4.0	3.4	20	85	16	39	146	47	287	188	28	111
4	3.8	6.2	20	69	15	37	128	38	181	124	21	93
5	4.7	17	23	58	17	38	113	33	127	89	21	64
6	4.9	24	30	50	21	39	93	306	98	66	16	42
7	5.0	22	124	45	22	39	75	920	329	51	13	29
8	5.0	19	80	40	26	1260	63	465	253	41	11	22
9	5.0	17	54	36	29	3460	53	284	161	35	9.0	19
10	5.0	15	42	31	29	2350	45	200	113	29	8.2	17
11	4.7	14	35	29	29	719	39	163	78	25	7.5	14
12	4.2	13	30	28	28	418	37	132	56	21	6.8	13
13	3.5	11	26	28	25	296	39	341	43	19	6.4	12
14	3.2	9.2	24	26	23	269	50	471	33	16	6.0	26
15	3.0	7.5	24	24	22	245	76	341	28	15	5.7	125
16	2.6	8.6	23	22	21	213	76	259	30	21	5.0	60
17	2.6	9.4	22	21	42	183	67	203	34	37	4.6	40
18	2.4	9.2	22	20	166	154	69	152	45	19	4.7	79
19	2.1	9.5	21	19	226	138	228	114	49	14	4.5	137
20	1.8	13	19	19	177	127	1760	86	44	13	4.3	52
21	1.6	12	18	19	166	113	1990	65	40	11	3.9	76
22	1.4	12	18	19	241	91	713	50	31	9.4	3.8	68
23	1.3	16	17	18	201	72	387	41	24	8.1	3.8	51
24	1.3	18	17	18	145	65	275	35	22	7.1	3.8	38
25	1.3	17	28	20	138	63	261	29	721	6.4	3.9	30
26	1.2	16	48	19	106	61	212	61	1410	6.1	3.7	27
27	1.2	13	82	18	86	63	158	405	515	5.7	3.3	69
28	1.3	13	110	18	70	71	126	184	379	5.1	2.7	159
29	1.4	13	246	18	59	302	103	118	284	4.3	2.6	101
30	1.3	16	333	17	---	468	89	79	171	4.0	2.6	68
31	1.2	---	209	17	---	331	---	133	---	5.9	2.8	---
TOTAL	90.6	376.7	1795	1103	2179	11819	7898	5886	6059	1284.1	261.9	1819.5
MEAN	2.92	12.6	57.9	35.6	75.1	381	263	190	202	41.4	8.45	60.7
MAX	5.0	24	333	144	241	3460	1990	920	1410	253	35	173
MIN	1.2	1.2	15	17	15	37	37	29	22	4.0	2.6	4.5
AC-FT	180	747	3560	2190	4320	23440	15670	11670	12020	2550	519	3610

CAL YR 1975 TOTAL 91865.5 MEAN 252 MAX 4200 MIN 1.2 AC-FT 182200
WTR YR 1976 TOTAL 40571.8 MEAN 111 MAX 3460 MIN 1.2 AC-FT 80470

07339500 ROLLING FORK NEAR DEQUEEN, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

COOPERATION.--Records furnished by Corps of Engineers, Tulsa, Okla.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	20.0	20.5	18.5	16.0	17.0	10.5	9.0	9.0	8.0	6.5	7.5
2	20.5	19.0	19.5	17.5	17.0	17.5	9.5	8.0	9.0	7.5	7.0	7.5
3	20.0	18.0	19.0	19.5	17.0	18.0	9.5	8.0	9.0	7.0	6.0	6.5
4	19.5	17.5	18.0	19.0	18.0	18.0	10.0	8.5	9.0	6.0	4.5	5.0
5	20.5	17.0	18.5	19.0	17.5	18.0	12.5	10.0	11.0	5.0	3.5	4.0
6	20.0	17.5	18.5	18.5	17.5	18.0	12.5	12.0	12.5	5.5	4.5	5.0
7	19.0	17.5	18.5	20.0	17.5	18.5	12.0	10.5	11.0	6.0	4.0	5.0
8	21.5	17.5	19.0	19.0	18.0	18.5	11.0	10.0	10.5	4.0	2.5	3.0
9	22.0	18.5	20.0	20.5	18.0	19.0	10.5	9.0	9.5	3.0	2.0	2.5
10	23.0	19.0	21.0	19.0	17.0	18.0	10.0	9.0	9.5	4.0	2.5	3.0
11	23.0	20.0	21.5	18.0	16.5	17.0	10.5	8.5	9.5	6.0	4.0	5.5
12	23.5	20.5	22.0	18.5	15.0	16.0	12.5	10.5	11.5	6.0	5.0	5.0
13	23.5	20.5	21.5	15.0	13.5	14.5	13.0	12.0	12.5	8.0	5.5	7.0
14	23.5	20.5	22.0	---	---	---	14.0	13.0	13.5	8.0	7.0	7.5
15	23.0	20.5	21.5	---	---	---	14.0	12.0	13.5	7.0	6.0	6.5
16	22.0	20.5	21.5	---	---	---	12.0	10.0	11.0	7.0	6.5	6.5
17	21.0	19.5	20.5	---	---	---	10.0	8.0	9.5	7.5	6.0	6.5
18	20.5	18.5	19.5	---	---	---	9.0	7.0	8.0	7.0	6.0	6.5
19	20.0	18.0	18.5	---	---	---	7.0	6.0	6.5	7.0	6.5	7.0
20	20.5	17.5	18.5	---	---	---	7.0	6.0	6.5	8.5	7.0	7.5
21	21.0	17.5	19.0	---	---	---	7.0	6.0	6.0	8.0	6.0	7.0
22	20.5	18.0	19.0	---	---	---	6.0	6.0	6.0	7.5	6.0	7.0
23	20.0	18.5	19.0	---	---	---	8.0	6.0	6.0	8.5	7.0	7.5
24	21.5	19.5	20.0	---	---	---	7.0	6.5	7.0	11.0	8.5	9.5
25	20.5	18.0	19.0	---	---	---	6.5	5.0	5.5	12.0	10.5	11.0
26	18.0	17.0	17.5	---	---	---	6.0	5.0	5.5	11.0	8.0	9.5
27	17.0	16.5	16.5	---	---	---	6.0	4.0	5.0	8.5	7.0	7.5
28	18.5	16.5	17.0	---	---	---	6.5	5.0	6.0	7.0	6.5	6.5
29	19.5	17.5	18.0	---	---	---	7.0	6.5	6.5	8.5	6.5	7.5
30	18.0	17.0	18.0	---	---	---	7.0	6.5	6.5	10.0	7.0	8.5
31	---	---	---	---	---	---	7.5	6.0	6.5	8.5	7.5	8.0
MONTH	23.5	16.5	19.5	---	---	---	14.0	4.0	8.5	12.0	2.0	6.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	7.0	7.5							---	---	---
2	7.5	7.0	7.0							---	---	---
3	8.0	7.0	7.5							---	---	---
4	10.5	8.0	9.0							21.0	18.5	20.0
5	10.5	10.0	10.5							20.5	19.5	20.0
6	10.0	8.0	9.0							20.0	18.5	19.5
7	8.0	7.0	7.5							20.0	18.0	18.5
8	8.5	6.5	7.5							18.5	16.5	17.5
9	10.0	7.0	8.0							19.0	17.5	18.0
10	12.0	9.0	10.5							21.0	18.5	19.5
11	12.0	11.5	11.5							23.0	20.0	21.0
12	13.0	11.5	12.0							23.0	20.5	21.5
13	14.0	12.5	13.0							21.5	20.0	20.5
14	15.0	13.5	14.0							19.5	18.0	19.0
15	15.5	14.5	15.0							19.5	18.0	18.5
16	17.0	15.0	16.0							20.5	18.5	19.5
17	17.0	15.0	16.5							21.5	18.0	19.5
18	15.5	13.5	14.5							19.0	18.5	19.5
19	---	---	---							22.5	19.0	21.0
20	---	---	---							23.0	19.0	21.0
21	---	---	---							23.0	20.5	22.0
22	---	---	---							24.5	22.0	23.5
23	---	---	---							25.0	23.0	23.5
24	---	---	---							25.0	23.0	24.0
25	---	---	---							24.0	22.5	23.5
26	---	---	---							22.5	18.5	21.0
27	---	---	---							21.0	17.5	19.0
28	---	---	---							23.0	20.0	21.0
29	---	---	---							23.5	21.0	22.0
30	---	---	---							25.0	22.5	23.5
31	---	---	---							25.0	23.5	24.5
MONTH	---	---	---							25.0	16.5	21.0

07339500 ROLLING FORK NEAR DEQUEEN, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.0	23.5	24.5	---	---	---	---	---	---	---	---	---
2	25.5	23.0	24.0	---	---	---	---	---	---	25.5	24.5	25.0
3	24.5	22.5	24.0	---	---	---	---	---	---	24.5	24.0	24.0
4	24.0	23.0	23.5	---	---	---	---	---	---	24.0	24.0	24.0
5	24.5	23.0	23.5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	28.0	25.5	26.5
9	25.5	23.0	24.5	---	---	---	---	---	---	27.0	25.0	26.0
10	26.5	23.5	24.0	---	---	---	---	---	---	25.5	24.0	24.5
11	27.0	24.0	25.5	---	---	---	---	---	---	25.0	23.0	24.0
12	27.0	24.5	26.0	---	---	---	---	---	---	24.0	22.5	23.0
13	27.5	25.5	26.5	---	---	---	---	---	---	23.0	22.0	22.5
14	28.0	25.5	26.5	---	---	---	---	---	---	24.5	22.5	24.0
15	27.0	25.5	26.0	---	---	---	---	---	---	26.0	23.5	24.5
16	27.0	25.0	26.0	29.5	27.0	28.0	---	---	---	25.5	24.0	24.5
17	26.5	25.0	25.5	29.5	26.5	28.0	---	---	---	24.5	24.0	24.0
18	26.0	25.0	25.5	28.5	27.0	27.5	---	---	---	24.0	23.0	23.5
19	26.5	24.5	25.0	31.5	26.5	28.5	---	---	---	23.0	22.0	22.5
20	26.0	24.0	25.0	33.0	27.0	29.5	---	---	---	24.0	22.5	23.0
21	26.5	23.5	25.0	33.0	27.5	30.0	---	---	---	23.5	22.0	22.5
22	26.5	24.0	25.0	33.5	28.0	30.0	---	---	---	23.0	21.0	22.5
23	27.0	24.5	25.5	34.0	28.0	30.5	---	---	---	23.5	21.0	22.0
24	28.0	25.0	25.5	31.0	28.0	30.0	---	---	---	23.5	22.0	22.5
25	---	---	---	34.5	28.0	30.0	---	---	---	23.5	22.5	23.0
26	---	---	---	34.0	28.0	30.5	30.5	25.5	28.0	23.0	22.5	22.5
27	---	---	---	33.0	28.5	30.0	30.0	26.5	28.5	23.5	22.0	22.5
28	---	---	---	32.5	29.5	31.0	---	---	---	23.0	22.0	22.5
29	---	---	---	---	---	---	---	---	---	22.0	21.0	21.5
30	---	---	---	---	---	---	---	---	---	22.5	20.0	21.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	28.0	20.0	23.5

07339850 ROLLING FORK NEAR HORATIO, AR

LOCATION.--Lat 33°57'19", long 94°24'03", in SW¼ sec.27 T.9 S., R.32 W., Sevier County, at bridge on State Highway 24, 1.5 mi (2.4 km) downstream from Bear Creek, and 3.0 mi (4.8 km) west of Horatio.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
DEC												
02...	9827	9827	82	7.1	10.0	6.0	15	10	10.1	85	1.6	150
JAN												
13...	9827	9827	61	6.7	18.0	6.0	40	20	11.8	95	1.1	310
FEB												
10...	9827	9827	82	7.1	19.0	9.0	20	8	11.6	100	2.2	260
MAR												
09...	9827	9827	38	6.4	10.0	9.0	120	160	9.5	82	2.5	2800
APR												
12...	9827	9827	83	7.1	23.0	18.0	25	9	9.5	100	4.6	210
MAY												
11...	9827	9827	47	6.8	27.0	19.0	45	20	7.9	84	.8	300
JUN												
08...	9827	9827	70	7.0	26.0	22.0	50	<25	7.2	82	1.1	320
JUL												
14...	9827	9827	87	7.1	34.0	27.0	40	15	6.3	78	1.3	200
AUG												
11...	9827	9827	116	7.0	28.0	24.0	30	10	6.4	75	1.3	20
SEP												
08...	9827	9827	65	7.0	27.0	24.0	50	20	6.4	75	1.0	720

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC												
02...	38	70	--	--	--	--	--	--	--	--	--	--
JAN												
13...	34	67	22	9	4.0	10	3.0	5.3	1.1	16	0	13
FEB												
10...	36	50	--	--	--	--	--	--	--	--	--	--
MAR												
09...	4200	--	--	--	--	--	--	--	--	--	--	--
APR												
12...	270	27	22	0	6.0	16	1.0	6.5	1.3	27	0	22
MAY												
11...	70	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	20	--	--	--	--	--	--	--	--	--	--	--
JUL												
14...	20	--	20	3	6.0	14	1.0	8.5	1.2	21	0	17
AUG												
11...	<10	--	--	--	--	--	--	--	--	--	--	--
SEP												
08...	27	--	--	--	--	--	--	--	--	--	--	--

07339850 ROLLING FORK NEAR HORATIO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)
DEC											
02...	--	3.0	15	51	15	66	.18	<.01	--	--	--
JAN											
13...	5.1	7.0	9.0	63	4	67	.68	<.01	<3	<10	<3
FEB											
10...	--	6.0	12	62	10	72	.42	.02	--	--	--
MAR											
09...	--	2.0	4.0	35	166	201	.60	.13	--	--	--
APR											
12...	3.4	5.0	10	51	11	62	.30	.09	<3	<10	<3
MAY											
11...	--	5.0	6.0	54	18	72	.61	.05	--	--	--
JUN											
08...	--	10	8.0	54	12	66	.56	.07	--	--	--
JUL											
14...	2.7	3.0	12	59	--	--	.23	.04	<3	<10	<3
AUG											
11...	--	5.0	16	71	12	83	.60	.05	--	--	--
SEP											
08...	--	1.0	8.0	58	12	70	.48	.06	--	--	--

DATE	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
13...	<10	730	10	55	10	.00	.00	.00	.00	.00	<1
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	<10	790	10	99	<10	--	--	--	--	--	--
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
JUL											
14...	<10	1100	<10	110	10	--	--	--	--	--	--
AUG											
11...	--	--	--	--	--	--	--	--	--	--	--
SEP											
08...	--	--	--	--	--	--	--	--	--	--	--

07340000 LITTLE RIVER NEAR HORATIO, AR

LOCATION.--Lat 33°55'10", long 94°23'15", in NE¼ sec.10, T.10 S., R.32 W., Sevier County, near left bank on downstream side of bridge on State Highway 41, 0.9 mi (1.4 km) downstream from Rolling Fork, 2.0 mi (3.2 km) southwest of Horatio, 28.5 mi (45.9 km) upstream from Cossatot River, and at mile 72.0 (115.8 km).

DRAINAGE AREA.--2,674 mi^2 (6,926 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 857: 1932, 1935-36. WSP 1211: 1931, drainage area. WSP 1561: 1932.

GAGE.--Water-stage recorder. Datum of gage is 272.89 ft (83.177 m) above mean sea level. Prior to Feb. 5, 1935, nonrecording gage, and Feb. 5, 1935, to Sept. 13, 1961, water-stage recorder, at site 50 ft (15 m) upstream at present datum.

REMARKS.--Records good except those for period of no gage-height record, Oct. 27 to Dec. 3, which are fair. Some regulation since Oct. 3, 1968, by Broken Bow Lake (Oklahoma), 31.4 mi (50.5 km) upstream, capacity, 1,368,000 acre-ft (1,690 hm^3), and since June 1, 1969, by Pine Creek Lake (Oklahoma), 73.3 mi (117.9 km) upstream, capacity, 465,800 acre-ft (574 hm^3).

AVERAGE DISCHARGE.--46 years, 3,805 ft^3/s (108 m^3/s), 2,757,000 acre-ft/yr (3,400 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft^3/s (3,400 m^3/s) Mar. 30, 1945, gage height, 37.70 ft (11.491 m), from rating curve extended above 93,000 ft^3/s (2,630 m^3/s); minimum, 1.0 ft^3/s (0.028 m^3/s) Aug. 18 to Sept. 1, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1915, reached a stage of 38.0 ft (11.58 m), discharge, 124,000 ft^3/s (3,510 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,800 ft^3/s (362 m^3/s) Apr. 21, gage height, 18.07 ft (5.508 m); minimum daily, 200 ft^3/s (5.66 m^3/s) Nov. 17.

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	263	270	300	2160	330	781	1850	3730	4850	2380	813	322
2	272	500	1700	2000	240	891	2830	1550	6040	1430	1180	240
3	290	220	1400	1200	280	801	1360	1050	6080	1400	518	384
4	284	330	853	490	220	650	1110	1100	2670	1080	286	1030
5	300	350	473	600	439	532	1100	932	2400	1410	348	890
6	227	1000	871	900	450	616	1030	1860	1460	861	563	554
7	339	700	601	1200	500	580	963	6400	1060	1080	1020	427
8	255	580	469	1900	400	2430	907	5360	1280	753	505	592
9	302	740	715	1800	240	10100	1910	3470	964	848	261	778
10	317	280	520	2200	310	11400	2440	2580	1010	1500	1230	445
11	347	290	540	560	240	9460	995	2200	1850	758	1450	510
12	339	260	501	500	370	7890	605	2250	2050	425	1900	352
13	227	390	475	765	650	6990	1360	4170	869	1540	1330	250
14	234	360	451	434	713	4370	1610	5550	500	2160	1220	491
15	441	210	343	451	427	3530	1300	6730	1710	2200	473	985
16	360	530	442	433	282	3400	1420	6060	889	796	298	1010
17	225	200	463	520	491	2640	1270	4840	702	611	687	971
18	353	960	1790	355	1220	2320	981	4520	562	563	871	757
19	330	460	2020	316	844	1720	1550	4270	840	372	1440	517
20	211	510	948	413	752	1600	7360	2980	770	638	530	497
21	260	500	512	487	848	1250	12300	1540	608	1240	402	389
22	241	710	333	620	772	1020	11600	1690	960	1800	277	698
23	283	660	477	446	807	1270	11800	1180	1520	1810	204	474
24	305	250	359	436	1930	857	10500	916	1620	2010	730	323
25	615	1400	434	426	1280	761	8530	3000	1280	719	880	297
26	238	1700	500	322	1130	732	7610	2920	4350	607	680	287
27	220	1700	592	367	1110	1240	9350	9490	2710	1940	911	266
28	280	820	657	562	1220	849	8750	9850	1640	1780	1920	616
29	240	430	662	605	946	1350	8250	4690	2770	1770	739	584
30	210	290	954	424	---	2330	7310	4150	2610	2630	261	524
31	300	---	1230	349	---	2300	---	4340	---	2740	218	---
TOTAL	9108	17600	22585	24241	19441	86660	129951	115368	58624	41871	24145	16460
MEAN	294	587	729	782	670	2795	4332	3722	1954	1351	779	549
MAX	615	1700	2020	2200	1930	11400	12300	9850	6080	2740	1920	1030
MIN	210	200	300	316	220	532	605	916	500	372	204	240
AC-FT	18070	34910	44800	48080	38560	171900	257800	228800	116300	83050	47890	32650

CAL YR 1975 TOTAL 1332504 MEAN 3651 MAX 28200 MIN 200 AC-FT 2643000
WTR YR 1976 TOTAL 566054 MEAN 1547 MAX 12300 MIN 200 AC-FT 1123000

07340000 LITTLE RIVER NEAR HORATIO, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-59, October 1968 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1953 to September 1959.
WATER TEMPERATURES: October 1953 to September 1959.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT											
23...	1028	1028	--	244	--	--	--	18.5	--	--	--
28...	9827	9827	280	--	63	7.1	20.0	17.0	10	6	8.2
DEC											
02...	9827	9827	1700	--	54	7.0	15.0	10.0	10	15	10.1
18...	1028	1028	--	2330	--	--	7.5	9.5	--	--	--
JAN											
13...	9827	9827	--	905	71	7.0	19.0	9.0	15	9	11.4
14...	9827	9827	--	--	--	--	--	--	--	--	--
14...	1028	1028	--	430	--	--	13.0	8.0	--	--	--
FEB											
10...	9827	9827	310	--	93	7.1	20.0	10.0	10	4	11.2
26...	1028	1028	--	1160	--	--	23.0	12.5	--	--	--
MAR											
09...	9827	9827	--	10300	59	6.8	8.0	10.0	100	120	9.4
APR											
07...	1028	1028	--	967	--	--	29.0	18.5	--	--	--
12...	9827	9827	--	605	83	7.1	22.0	18.0	20	8	9.5
MAY											
11...	9827	9827	--	2190	60	7.1	--	20.0	55	20	8.2
19...	1028	1028	--	4220	--	--	27.0	21.0	--	--	--
JUN											
08...	9827	9827	--	1320	77	7.0	28.0	23.0	40	<25	5.6
JUL											
07...	1028	1028	--	1300	--	--	32.0	27.0	--	--	--
14...	9827	9827	--	2830	53	7.0	35.0	24.0	20	15	7.4
AUG											
11...	9827	9827	--	1940	50	6.7	30.0	23.0	10	8	7.9
11...	1028	1028	--	1670	--	--	34.0	25.5	--	--	--
SEP											
08...	9827	9827	--	635	230	7.3	28.0	25.0	30	9	7.7
23...	1028	1028	--	425	--	--	28.5	23.0	--	--	--

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)
OCT											
23...	--	--	--	--	--	--	--	--	--	--	--
28...	85	.4	330	40	67	--	--	--	--	--	--
DEC											
02...	89	1.4	--	58	20	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
13...	99	1.9	200	5	10	22	7	5.0	12	2.0	7.0
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	99	2.2	140	18	20	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	83	3.1	8900	5300	--	--	--	--	--	--	--
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
12...	100	2.3	480	30	--	18	3	6.0	16	<1.0	5.8
MAY											
11...	89	1.2	460	54	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	64	--	340	23	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
14...	87	1.3	200	96	--	18	5	3.0	8	2.0	4.5
AUG											
11...	91	1.5	230	60	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
SEP											
08...	92	2.6	25	27	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

07340000 LITTLE RIVER NEAR HORATIO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)
OCT											
23...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	1.0	12	61	4	65	.30
DEC											
02...	--	--	--	--	--	1.0	9.5	64	32	96	.34
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
13...	1.2	18	0	15	2.9	3.0	10	59	7	66	.45
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	--	--	--	--	--	3.0	13	74	3	77	.33
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	2.0	5.5	45	135	180	.59
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
12...	1.1	18	0	15	2.3	5.0	8.5	52	60	112	.25
MAY											
11...	--	--	--	--	--	2.0	6.5	73	9	82	.25
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	--	--	7.0	7.5	60	30	90	.33
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
14...	1.0	16	0	13	2.6	2.0	5.0	41	15	56	.46
AUG											
11...	--	--	--	--	--	1.0	5.0	40	15	55	.27
11...	--	--	--	--	--	--	--	--	--	--	--
SEP											
08...	--	--	--	--	--	3.0	44	131	6	137	.21
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT											
23...	--	--	--	--	--	--	--	--	--	--	--
28...	.03	--	--	--	<10	410	--	92	30	--	--
DEC											
02...	.03	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
13...	.03	<3	<10	<3	<10	460	10	140	10	--	--
14...	--	--	--	--	--	--	--	--	--	.00	<1
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	.01	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	.13	--	--	--	--	--	--	--	--	--	--
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
12...	.03	<3	<10	<3	<10	240	10	97	40	--	--
MAY											
11...	.08	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	.07	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
14...	.06	<3	<10	<3	10	630	<10	130	20	--	--
AUG											
11...	.02	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
SEP											
08...	.04	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

07340300 COSSATOT RIVER NEAR VANDERVOORT, AR
(Hydrologic bench-mark station)

LOCATION.--Lat 34°22'46", long 94°14'08", in SE¼NE¼ sec.30, T.4 S., R.30 W., Polk County, near left bank on downstream side of bridge on State Highway 246, 0.3 mi (0.5 km) downstream from Brushy Creek, 3.2 mi (4.1 km) upstream from Flat Creek, and 7.5 mi (12.1 km) east of Vandervoort.

DRAINAGE AREA.--89.4 mi^2 (231.5 km^2).

PERIOD OF RECORD.--June 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 771.88 ft (235.269 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years, 211 ft^3/s (5.98 m^3/s), 32.05 in/yr (814 mm/yr), 152,900 acre-ft/yr (189 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,500 ft^3/s (892 m^3/s) Dec. 9, 1971, gage height, 19.35 ft (5.898 m), from rating curve extended above 11,000 ft^3/s (312 m^3/s) on the basis of step-backwater computations; minimum, 7.2 ft^3/s (0.20 m^3/s) Aug. 28, 29, 30, 31, 1972, gage height, 1.67 ft (0.509 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 6, 1961, reached a stage of about 23.0 ft (7.01 m) from information by local resident, discharge, about 48,000 ft^3/s (1,400 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,700 ft^3/s (133 m^3/s) Dec. 6, gage height, 9.22 ft (2.810 m); minimum, 9.5 ft^3/s (0.27 m^3/s) Aug. 14, gage height, 1.70 ft (0.518 m).

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	19	17	97	183	37	64	169	54	76	165	13	16
2	19	23	70	140	35	59	136	48	81	140	15	26
3	19	153	55	110	34	54	115	43	84	95	16	28
4	18	80	46	88	33	53	103	39	83	74	14	30
5	18	49	65	78	39	99	88	37	82	58	13	21
6	18	36	1430	70	48	90	79	115	120	50	16	17
7	18	30	309	66	42	81	72	119	205	125	16	14
8	18	26	171	61	41	2340	65	87	150	300	13	13
9	18	26	121	64	41	1460	58	66	120	155	13	17
10	18	25	93	54	41	592	52	61	110	80	13	13
11	17	23	76	50	40	345	50	73	96	30	12	12
12	16	22	65	46	38	256	52	59	80	23	11	12
13	16	20	56	43	36	186	59	230	63	19	11	14
14	16	20	50	40	35	171	64	187	60	16	11	17
15	16	20	57	36	34	158	55	147	60	16	10	19
16	16	20	76	35	35	146	55	125	62	22	11	15
17	16	20	73	33	406	125	54	102	45	20	12	13
18	16	20	64	33	677	113	55	81	35	19	11	20
19	16	22	57	33	315	105	201	66	27	17	11	35
20	16	114	53	36	208	99	995	54	22	16	10	25
21	16	77	48	33	235	87	577	47	20	16	10	19
22	16	53	43	31	197	75	282	42	21	15	10	18
23	16	40	40	30	153	68	183	38	32	15	11	20
24	18	33	40	31	132	69	143	65	120	16	11	18
25	23	30	74	42	113	70	140	54	640	17	11	17
26	21	29	105	46	97	87	111	44	1500	17	13	15
27	18	29	144	43	83	86	93	84	980	17	16	16
28	19	26	312	41	74	118	77	80	660	16	12	17
29	19	26	884	40	69	445	69	61	480	15	11	16
30	18	85	416	39	---	296	60	50	360	14	12	14
31	18	---	260	39	---	217	---	70	---	13	13	---
TOTAL	546	1194	5450	1714	3368	8214	4312	2428	6474	1611	382	547
MEAN	17.6	39.8	176	55.3	116	265	144	78.3	216	52.0	12.3	18.2
MAX	23	153	1430	183	677	2340	995	230	1500	300	16	35
MIN	16	17	40	30	33	53	50	37	20	13	10	12
CFSM	.20	.45	1.97	.62	1.30	2.96	1.61	.88	2.42	.58	.14	.20
IN.	.23	.50	2.27	.71	1.40	3.42	1.79	1.01	2.69	.67	.16	.23
AC-FT	1080	2370	10810	3400	6680	16290	8550	4820	12840	3200	758	1080

CAL YR 1975 TOTAL 62973 MEAN 173 MAX 3950 MIN 15 CFSM 1.94 IN 26.20 AC-FT 124900
WTR YR 1976 TOTAL 36240 MEAN 99.0 MAX 2340 MIN 10 CFSM 1.11 IN 15.08 AC-FT 71880

07340450 GILLHAM LAKE NEAR GILLHAM, AR

LOCATION.--Lat 34°12'37", long 94°13'44", in SE¼SE¼ sec.30, T.6 S., R.30 W., Howard County, at Gillham dam on Cossatot River, 6.0 mi (9.6 km) northeast of Gillham, and at mile 49.0 (78.8 km).
DRAINAGE AREA.--271 mi^2 (702 km^2).
PERIOD OF RECORD.--May 1975 to current year.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).
REMARKS.--Lake is formed by rockfill dam. Outlet works consists of a 10-ft (3.0-m) diameter pipe that will discharge flood waters, a 24-in (610-mm) pipe for water supply, and a 30-in (762-mm) pipe for quality control. Flow over the spillway is controlled by four 50-ft (15.2-m) by 42-ft (12.8-m) taintor gates. Storage began May 8, 1975. Lake is used for flood-control, water-supply, water-quality control, and fish and wildlife conservation. Capacity between elevations 464.5 ft (141.58 m) and 502.0 ft (153.01 m) is 29,310 acre-ft (36.1 hm^3) and is conservation storage of which 20,510 acre-ft (25.3 hm^3) is reserved for water supply, and 8,800 acre-ft (10.9 hm^3) is reserved for quality control. Capacity between elevations 502.0 ft (153.01 m) and 569.0 ft (173.43 m) is 188,750 acre-ft (233 hm^3) and is reserved for flood-control storage. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of Dam	586.0 (178.61 m)	312,270 (385 hm^3)
Top of flood-control pool	569.0 (173.43 m)	221,780 (273 hm^3)
Top of spillway crest	527.0 (160.63 m)	78,580 (96.9 hm^3)
Top of conservation pool	502.0 (153.01 m)	33,030 (40.7 hm^3)
Top of inactive pool	464.5 (141.58 m)	3,717 (4.58 hm^3)
Bottom of lowest outlet	458.5 (139.75 m)	2,158 (2.66 hm^3)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 59,000 acre-ft (72.7 hm^3) Mar. 10, 1976, elevation, 517.77 ft (157.816 m); minimum since initial filling to conservation pool, 28,490 acre-ft (35.1 hm^3) Aug. 31, 1976, elevation, 498.53 ft (151.952 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 59,000 acre-ft (72.7 hm^3) Mar. 10, elevation, 517.77 ft (157.816 m); minimum, 121 acre-ft (0.15 hm^3) Oct. 24, elevation, 438.18 ft (133.557 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

438	117	485	14,690
445	384	495	24,300
455	1,490	505	37,300
465	3,870	510	45,100
475	8,070	518	59,440

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	186	2230	21210	22350	33510	35430	33360	34000	33900	31810	28520
2	135	249	2400	21670	22340	33510	34770	33290	34150	34790	31710	28540
3	133	448	2530	21710	22320	33500	34530	33280	34200	35250	31640	28820
4	132	805	2620	21740	22290	33490	34240	33130	34180	35510	31520	28990
5	132	910	2800	21860	22360	33610	33820	33090	34140	35610	31440	29080
6	132	975	6560	22000	22380	33830	33360	33710	34520	35300	31350	29080
7	132	1020	8070	22150	22410	34030	33100	34350	34930	34520	31280	29060
8	132	1060	8090	22250	22440	47110	33160	34620	34910	33720	31180	29020
9	132	1070	8480	22270	22480	56570	33170	34660	34660	33350	31100	28970
10	131	1070	9320	22350	22500	58960	33220	34670	34360	33330	30990	28880
11	131	1070	9520	22420	22520	58530	33320	34670	34150	33320	30890	28830
12	130	1070	9660	22460	22530	57480	33350	34690	34000	33280	30780	28750
13	130	1070	9770	22530	22530	54710	33460	36030	33850	33240	30690	28700
14	129	1070	9860	22540	22530	51130	33570	36290	33650	33200	30590	28680
15	129	1070	9950	22540	22540	49490	33610	36220	33470	33140	30490	28670
16	128	1070	10090	22530	22550	46600	33580	35900	33380	33090	30340	28640
17	127	1060	10260	22520	23670	43720	33530	35310	33400	33010	30230	28600
18	127	1050	10410	22510	27130	40780	33530	34670	33510	32940	30100	28650
19	126	1070	10560	22510	28840	38640	33990	33860	33920	32870	29980	28730
20	126	1200	10520	22500	29830	37330	38340	33290	34100	32770	29810	28820
21	125	1450	10590	22500	30740	36000	40630	33100	34170	32690	29650	28840
22	125	1560	10580	22500	31510	34560	39990	33050	34170	32580	29530	28840
23	124	1670	10640	22500	32120	33890	38280	32980	34000	32500	29410	28840
24	122	1730	10730	22490	32580	33940	37170	32950	34420	32450	29310	28800
25	134	1790	11010	22440	32950	34040	35990	33030	34960	32350	29220	28770
26	139	1830	11680	22410	33270	34150	34630	33250	36770	32270	29080	28780
27	136	1850	12440	22390	33440	34250	33790	33470	34520	32240	28920	28790
28	135	1900	15390	22360	33490	34520	33490	33670	34240	32120	28850	28850
29	134	1990	16280	22360	33510	36480	33290	33720	33560	32040	28750	28880
30	133	2050	18940	22360	---	37150	33320	33750	33200	31950	28620	28880
31	162	---	20200	22350	---	36480	---	33830	---	31870	28490	---
MAX	162	2050	20200	22540	33510	58960	40630	36290	36770	35610	31810	29080
MIN	122	186	2230	21210	22290	33490	33100	32950	33200	31870	28490	28520
(†)	439.67	457.97	489.82	493.21	502.35	504.44	502.21	502.58	502.12	501.14	498.53	498.84
(‡)	+27	+1888	+18150	+2150	+11160	+2970	-3160	+510	-630	-1330	-3380	+390

WTR YR 1976 MAX 58960 MIN 122 ‡ +28745

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07340500 COSSATOT RIVER NEAR DEQUEEN, AR

LOCATION.--Lat 34°02'45", long 94°12'42", in NE¼NE¼ sec.29, T.8 S., R.30 W., Sevier County, near right bank on downstream side of bridge on U.S. Highway 71, just downstream from Hale Creek, 7.0 mi (11.3 km) east of DeQueen, and at mile 33.5 (53.9 km).

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--361 mi^2 (935 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 335.48 ft (102.254 m) above mean sea level. Prior to Nov. 9, 1938, nonrecording gage at present site and datum.

REMARKS.--Records good. Records do not include about 2.1 ft^3/s (0.059 m^3/s) diverted by DeQueen for municipal use. Some regulation by Gillham Lake 15.5 mi (24.9 km) upstream since May 1975 (see station 07340450).

AVERAGE DISCHARGE.--38 years, 619 ft^3/s (17.5 m^3/s), 448,500 acre-ft/yr (553 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft^3/s (3,460 m^3/s) May 13, 1968, gage height, 22.60 ft (6.891 m), from rating curve extended above 65,000 ft^3/s (1,840 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 1.1 ft^3/s (0.031 m^3/s) Sept. 2, 3, 1972, gage height, 2.90 ft (0.884 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,060 ft^3/s (115 m^3/s) Mar. 8, gage height, 10.53 ft (3.210 m); minimum daily, 6.9 ft^3/s (0.20 m^3/s) Oct. 9.

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	12	9.1	32	100	74	142	1200	144	120	333	43	71
2	11	8.0	32	90	72	142	1080	140	126	293	54	82
3	10	11	33	80	72	141	575	134	144	186	49	69
4	9.6	8.2	36	75	72	141	542	131	143	159	45	54
5	9.5	11	39	75	95	152	518	129	142	141	45	49
6	8.6	15	82	75	113	151	500	243	230	143	47	47
7	7.8	16	95	80	103	147	455	231	269	461	46	44
8	7.3	17	66	75	98	2150	175	244	263	478	47	46
9	6.9	18	56	75	92	1750	153	224	247	441	48	46
10	7.0	17	50	75	90	1280	117	210	237	95	49	43
11	8.2	17	47	75	87	1620	101	207	227	56	48	43
12	9.1	17	45	77	85	1590	97	200	142	49	48	44
13	9.3	17	46	77	83	2170	98	453	128	45	46	43
14	9.3	17	46	75	82	2240	99	773	123	44	50	48
15	8.9	18	49	76	80	2170	96	758	122	43	51	45
16	9.9	18	50	74	80	2120	141	741	126	52	51	43
17	11	17	53	73	281	2060	151	707	83	50	50	43
18	11	17	51	72	630	2020	150	684	64	47	50	48
19	11	19	51	72	420	1800	198	669	64	45	49	87
20	9.4	25	53	76	280	1140	526	620	59	44	65	59
21	9.2	22	53	75	400	1100	615	298	54	43	71	61
22	9.7	23	54	75	270	1080	1230	157	51	42	65	58
23	9.7	24	53	73	230	928	1610	130	51	42	58	60
24	9.4	23	60	73	160	234	1140	118	99	44	58	55
25	13	23	98	86	130	201	1110	81	993	44	53	52
26	16	25	140	81	117	189	1070	61	2260	42	50	51
27	16	26	142	79	107	187	936	138	2220	42	67	53
28	15	26	158	77	137	200	387	94	1130	41	76	54
29	12	26	314	76	147	416	355	109	935	41	76	51
30	10	32	210	75	---	491	160	111	704	41	63	48
31	9.0	---	150	75	---	1210	---	111	---	41	71	---
TOTAL	315.8	562.3	2444	2392	4687	31362	15585	9050	11556	3668	1689	1597
MEAN	10.2	18.7	78.8	77.2	162	1012	520	292	385	118	54.5	53.2
MAX	16	32	314	100	630	2240	1610	773	2260	478	76	87
MIN	6.9	8.0	32	72	72	141	96	61	51	41	43	43
AC-FT	626	1120	4850	4740	9300	62210	30910	17950	22920	7280	3350	3170

CAL YR 1975 TOTAL 202624.1 MEAN 555 MAX 6040 MIN 6.9 AC-FT 401900
WTR YR 1976 TOTAL 84908.1 MEAN 232 MAX 2260 MIN 6.9 AC-FT 168400

07340500 COSSATOT RIVER NEAR DEQUEEN, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 1976

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February to September 1976.

COOPERATION.--Records furnished by Corps of Engineers, Tulsa, Okla.

TEMPERATURE (DEG.C) OF WATER, FEBRUARY TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	13.5	12.0	13.0	16.5	15.0	15.5
2	---	---	---	---	---	---	14.0	12.5	13.0	17.5	16.5	16.5
3	---	---	---	---	---	---	14.5	13.5	14.0	18.0	17.5	17.5
4	---	---	---	---	---	---	14.5	13.5	14.0	18.0	18.0	18.0
5	9.0	8.5	8.5	---	---	---	14.5	13.5	14.0	18.0	18.0	18.0
6	9.0	8.0	8.5	---	---	---	15.0	13.5	14.0	18.0	18.0	18.0
7	8.5	7.0	7.5	---	---	---	15.0	14.0	14.5	18.0	18.0	18.0
8	7.5	7.0	7.0	---	---	---	16.0	13.5	15.0	18.0	18.0	18.0
9	8.0	7.0	7.5	---	---	---	17.0	14.5	15.5	18.0	18.0	18.0
10	9.5	8.0	8.5	---	---	---	17.0	15.5	16.0	18.0	18.0	18.0
11	10.5	9.5	10.0	---	---	---	17.5	16.0	17.0	19.5	18.0	18.5
12	11.5	10.5	11.0	---	---	---	18.5	17.0	17.5	19.5	19.5	19.5
13	12.5	11.5	11.5	---	---	---	18.5	18.0	18.5	19.5	19.5	19.5
14	12.5	10.0	12.0	---	---	---	20.0	18.5	19.0	19.5	18.5	18.5
15	---	---	---	---	---	---	20.5	19.5	20.0	18.5	18.5	18.5
16	---	---	---	---	---	---	20.5	19.5	20.0	18.5	18.5	18.5
17	---	---	---	---	---	---	20.0	19.0	19.5	18.5	18.5	18.5
18	---	---	---	12.5	10.5	12.0	20.0	18.5	19.0	18.5	18.5	18.5
19	---	---	---	12.5	11.5	12.0	18.5	17.5	18.0	18.5	18.5	18.5
20	---	---	---	13.0	12.5	13.0	17.5	16.5	17.0	18.5	18.5	18.5
21	---	---	---	12.5	11.0	12.0	18.0	17.0	17.0	18.5	18.5	18.5
22	---	---	---	12.5	11.0	12.0	18.0	15.0	16.0	---	---	---
23	---	---	---	12.5	11.5	12.0	15.5	15.0	15.0	---	---	---
24	---	---	---	13.0	12.0	12.5	15.5	15.5	15.5	---	---	---
25	---	---	---	13.5	12.5	13.0	15.5	15.0	15.0	---	---	---
26	---	---	---	14.0	13.0	13.5	15.5	15.0	15.0	---	---	---
27	---	---	---	14.5	13.0	13.5	15.5	15.5	15.5	---	---	---
28	---	---	---	14.5	13.5	14.0	15.5	15.5	15.5	---	---	---
29	---	---	---	14.5	13.5	14.0	15.5	15.5	15.5	---	---	---
30	---	---	---	14.5	13.5	14.0	15.5	15.0	15.0	---	---	---
31	---	---	---	13.5	11.5	12.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	20.5	12.0	16.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	22.5	23.0	21.5	21.5	21.5	28.0	28.0	28.0			
2	---	---	---	21.5	21.5	21.5	28.0	28.0	28.0			
3	---	---	---	22.0	21.5	21.5	28.0	28.0	28.0			
4	---	---	---	22.5	22.0	22.0	28.0	27.0	27.0			
5	---	---	---	23.5	22.5	23.0	27.0	27.0	27.0			
6	---	---	---	23.5	23.5	23.5	27.0	27.0	27.0			
7	---	---	---	23.5	23.5	23.5	27.0	27.0	27.0			
8	---	---	---	---	---	---	27.0	27.0	27.0			
9	23.0	23.0	23.0	---	---	---	27.0	27.0	27.0			
10	23.0	22.5	22.5	---	---	---	26.5	26.5	26.5			
11	22.5	22.0	22.0	---	---	---	26.5	26.5	26.5			
12	22.5	22.0	22.5	---	---	---	26.5	26.5	26.5			
13	23.0	22.5	22.5	26.5	26.0	26.0	26.5	26.5	26.5			
14	24.0	23.0	23.5	27.0	26.5	26.5	26.5	26.5	26.5			
15	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
16	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
17	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
18	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
19	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
20	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
21	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
22	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
23	24.0	24.0	24.0	27.0	27.0	27.0	26.5	26.5	26.5			
24	24.0	24.0	24.0	27.5	27.0	27.5	26.5	26.0	26.5			
25	24.0	23.0	23.5	27.5	27.5	27.5	26.0	26.0	26.0			
26	23.0	21.5	22.5	28.0	27.5	28.0	26.0	26.0	26.0			
27	21.5	21.5	21.5	28.0	27.0	28.0	---	---	---			
28	21.5	21.5	21.5	28.0	28.0	28.0	---	---	---			
29	21.5	21.5	21.5	28.0	28.0	28.0	---	---	---			
30	21.5	21.5	21.5	28.0	28.0	28.0	---	---	---			
31	---	---	---	28.0	28.0	28.0	---	---	---			
MONTH	---	---	---	28.0	21.5	26.0	28.0	26.0	27.0			

07340520 COSSATOT RIVER NEAR LOCKESBURG, AR

LOCATION.--Lat 33°58'17", long 94°13'20", in NW¼ sec.20, T.9 S., R.30 W., Sevier County, at bridge on State Highway 24, 3.1 mi (5.0 km) west of Lockesburg.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
28...	9827	9827	16	48	7.2	18.0	16.0	15	7	8.0
DEC										
02...	9827	9827	36	53	7.1	9.0	6.0	10	7	10.7
JAN										
13...	9827	9827	81	47	6.7	18.0	7.0	45	10	11.9
FEB										
10...	9827	9827	96	50	7.1	19.0	9.0	30	20	11.1
MAR										
09...	9827	9827	1870	36	6.3	9.0	9.0	100	80	9.9
APR										
12...	9827	9827	104	52	7.0	21.0	17.0	30	9	9.6
MAY										
11...	9827	9827	221	47	6.9	23.0	18.0	40	15	8.4
JUN										
08...	9827	9827	281	48	7.0	24.0	21.0	20	35	7.4
JUL										
14...	9827	9827	47	52	6.9	31.0	27.0	30	9	6.3
AUG										
11...	9827	9827	51	53	6.9	--	--	30	8	6.8
SEP										
08...	9827	9827	49	53	7.2	25.0	24.0	30	20	7.7

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
28...	80	6.0	2400	40	130	--	--	--	--	--
DEC										
02...	90	1.0	<50	25	47	--	--	--	--	--
JAN										
13...	97	1.6	490	20	30	20	8	2.0	6	3.0
FEB										
10...	96	1.9	69	26	12	--	--	--	--	--
MAR										
09...	85	2.4	--	2600	--	--	--	--	--	--
APR										
12...	99	2.0	260	40	5	14	0	4.0	10	1.0
MAY										
11...	88	1.1	390	110	--	--	--	--	--	--
JUN										
08...	82	1.6	400	230	--	--	--	--	--	--
JUL										
14...	78	.2	160	7	--	22	7	4.0	10	3.0
AUG										
11...	--	1.4	80	<7	--	--	--	--	--	--
SEP										
08...	91	2.2	140	60	--	--	--	--	--	--

07340520 COSSATOT RIVER NEAR LOCKESBURG, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 28...	--	--	--	--	--	--	<1.0	5.0	45	3
DEC 02...	--	--	--	--	--	--	2.0	5.0	48	4
JAN 13...	3.3	1.4	15	0	12	4.8	6.0	5.0	--	--
FEB 10...	--	--	--	--	--	--	6.0	5.5	60	13
MAR 09...	--	--	--	--	--	--	2.0	3.5	33	75
APR 12...	3.8	.9	18	0	15	2.9	5.0	5.0	47	3
MAY 11...	--	--	--	--	--	--	2.0	3.5	56	8
JUN 08...	--	--	--	--	--	--	9.0	4.0	48	13
JUL 14...	5.4	.9	18	0	15	3.6	3.0	4.5	42	6
AUG 11...	--	--	--	--	--	--	4.0	3.0	43	7
SEP 08...	--	--	--	--	--	--	<1.0	4.0	39	9

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 28...	48	.32	.02	--	--	--	--	--	--	--
DEC 02...	52	.30	<.01	--	--	--	--	--	--	--
JAN 13...	--	.50	<.01	<3	<10	<3	<10	580	10	56
FEB 10...	73	.31	<.01	--	--	--	--	--	--	--
MAR 09...	108	1.0	.11	--	--	--	--	--	--	--
APR 12...	50	.52	.01	<3	<10	<3	<10	350	10	56
MAY 11...	64	.62	.04	--	--	--	--	--	--	--
JUN 08...	61	.68	.02	--	--	--	--	--	--	--
JUL 14...	48	.36	.03	<3	<10	<3	<10	730	20	76
AUG 11...	50	.15	.03	--	--	--	--	--	--	--
SEP 08...	48	.27	.03	--	--	--	--	--	--	--

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT 28...	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC 02...	--	--	--	--	--	--	--	--	--
JAN 13...	10	--	--	--	--	--	--	--	--
FEB 10...	--	--	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--	--	--
APR 12...	10	--	--	--	--	--	--	--	--
MAY 11...	--	--	--	--	--	--	--	--	--
JUN 08...	--	--	--	--	--	--	--	--	--
JUL 14...	20	--	--	--	--	--	--	--	--
AUG 11...	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--

07340990 DIERKS LAKE NEAR DIERKS, AR

LOCATION.--Lat 34°08'39", long 94°05'53", in NE¼NW¼ sec.21, T.7 S., R.29 W., Howard County, at Dierks Dam on Saline River, 3.1 mi (5.0 km) upstream from Bluff Creek, 5.0 mi (8.0 km) northwest of Dierks, and at mile 56.6 (91.1 km).
DRAINAGE AREA.--114 mi² (295 km²).
PERIOD OF RECORD.--May 1975 to current year.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).
REMARKS.--Lake is formed by rockfill dam with an uncontrolled 780 ft (238 m) wide spillway located on the right abutment west of dam. The outlet works consists of a gate tower with two hydraulic operated slide gates, a 6-ft (1.8-m) by 9-ft (2.7-m) oblong conduit, a 24-in (610-m) diameter pipe for low-flow augmentation, and a 30-in (762-mm) diameter pipe for water supply. Storage began May 8, 1975. Lake is used for flood-control, water-supply, water-quality control, fish and wildlife conservation, and recreation. Capacity below 512.0 ft (156.06 m) is 14,560 acre-ft (18.0 hm³), and is inactive storage. Capacity between 512.0 ft (156.06 m), and 526.0 ft (160.32 m) is 15,090 acre-ft (18.6 hm³), and is conservation storage of which 10,600 acre-ft (13.1 hm³) is for water supply, and 4,490 acre-ft (5.54 hm³) is for quality control. Capacity between 526.0 ft (160.32 m) and 557.5 ft (169.93 m) is 67,130 acre-ft (82.8 hm³) and is for flood control. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Spillway crest	575.0 (175.26 m)	159,500 (197 hm³)
Top of flood-control pool	557.5 (169.93 m)	96,780 (119 hm³)
Top of conservation pool	526.0 (160.32 m)	29,650 (36.6 hm³)
Top of inactive pool	512.0 (156.06 m)	14,560 (18.0 hm³)
Bottom of lowest outlet	508.0 (154.84 m)	11,600 (14.3 hm³)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 40,760 acre-ft (50.3 hm³) Mar. 11, 1976, elevation, 533.28 ft (162.544 m); minimum since initial filling to conservation pool, 26,360 acre-ft (32.5 hm³) Sept. 30, 1976, elevation, 523.49 ft (159.560 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 40,760 acre-ft (50.3 hm³) Mar. 11, elevation, 533.28 ft (162.544 m); minimum, 14,820 acre-ft (18.3 hm³) Nov. 29, elevation, 512.32 ft (156.155 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

512	14,560	527	31,030
516	18,090	530	35,450
518	20,080	534	41,980
523	25,750		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16810	15420	14870	20260	22280	29870	30580	29810	30120	31200	28800	26390
2	16750	15460	14870	20480	22330	29800	30260	29760	30200	31440	28700	26390
3	16700	15510	14890	20640	22350	29740	30120	29720	30180	31450	28620	26450
4	16650	15510	14900	20740	22370	29780	29970	29730	30100	31420	28490	26460
5	16610	15510	14940	20840	22560	29840	29780	29840	30060	31240	28440	26480
6	16560	15470	15450	20940	22720	29920	29650	30430	30330	31000	28350	26480
7	16520	15460	15620	20990	22840	30040	29680	30620	30480	30760	28260	26500
8	16480	15420	15710	21050	22970	36020	29700	30500	30400	30470	28180	26480
9	16420	15380	15770	21110	23050	39310	29700	30270	30220	30260	28100	26450
10	16370	15360	15850	21160	23150	40550	29680	30080	30000	30180	28040	26410
11	16330	15290	15900	21250	23260	40590	29650	29870	29830	30070	27960	26350
12	16290	15260	15970	21320	23350	39810	29650	29950	29780	29990	27880	26300
13	16250	15210	16010	21370	23380	38640	29650	31000	29700	29930	27800	26300
14	16210	15170	16060	21390	23440	37550	29690	30890	29650	29870	27720	26320
15	16160	15110	16100	21430	23480	36350	29720	30780	29690	29810	27630	26320
16	16120	15070	16140	21460	23560	34980	29720	30500	29730	29840	27560	26300
17	16070	15040	16190	21470	25000	33690	29720	30140	29740	29800	27480	26340
18	16020	15000	16210	21490	26650	32330	29740	29890	29960	29730	27390	26340
19	15960	15040	16250	21540	27450	31390	30010	29870	30150	29660	27300	26340
20	15920	15000	16280	21570	28020	30810	30610	29850	30220	29580	27200	26410
21	15870	15000	16290	21590	29300	30150	30750	29780	30260	29500	27110	26410
22	15810	14980	16290	21610	29340	29740	30330	29720	30270	29450	27040	26400
23	15780	14960	16320	21640	29560	29640	30040	29600	30290	29380	26940	26380
24	15780	14950	16380	21700	29760	29680	30080	29560	31070	29350	26880	26360
25	15740	14950	16520	21830	29870	29780	30190	29520	34940	29290	26800	26320
26	15680	14930	16730	21920	29960	29840	30180	29650	35330	29220	26720	26380
27	15640	14900	16940	21990	29970	29850	30120	29850	35260	29150	26620	26380
28	15600	14860	17350	22050	29970	30120	30030	29920	34420	29080	26580	26380
29	15570	14830	18750	22110	29920	30890	29920	29930	33140	29000	26520	26380
30	15510	14870	19490	22190	---	31270	29850	29960	31720	28920	26420	26360
31	15470	---	19940	22230	---	30970	---	29990	---	28850	26400	---
MAX	16810	15510	19940	22230	29970	40590	30750	31000	35330	31450	28800	26500
MIN	15470	14830	14870	20260	22280	29640	29650	29520	29650	28850	26400	26300
(†)	513.10	512.38	517.87	520.00	526.20	526.96	526.15	526.25	527.49	525.41	523.52	523.49
(‡)	-1380	-600	+5070	+2290	+7690	+1050	-1120	+140	+1730	-2870	-2450	-40

WTR YR 1976 MAX 40590 MIN 14830 ‡ +9510

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07341000 SALINE RIVER NEAR DIERKS, AR

LOCATION.--Lat 34°05'45", long 94°05'04", in NW¼SW¼ sec.3, T.8 S., R.29 W., Howard County, near left bank on downstream side of bridge on U.S. Highway 70, 3.5 mi (5.6 km) upstream from Holly Creek, 4.0 mi (6.4 km) southwest of Dierks, and at mile 50.7 (81.6 km).

DRAINAGE AREA.--124 mi^2 (321 km^2).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1007: 1939-42. WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 353.09 ft (107.622 m) above mean sea level. May 13, 1938, to Aug. 9, 1940, nonrecording gage and Aug. 10, 1940, to Aug. 30, 1951, water-stage recorder, at site 100 ft (30 m) upstream at present datum.

REMARKS.--Records good. Some regulation by Dierks Lake 5.9 mi (9.5 km) upstream since May 8, 1975 (see station 07340990).

AVERAGE DISCHARGE.--38 years, 193 ft^3/s (5.47 m^3/s), 139,800 acre-ft/yr (172 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,200 ft^3/s (1,680 m^3/s) May 13, 1968, gage height, 22.95 ft (6.995 m); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of some time in 1920 reached a stage of 21.9 ft (6.68 m), from information by local resident, discharge, 42,000 ft^3/s (1,190 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,220 ft^3/s (34.6 m^3/s) Mar. 16, gage height, 8.21 ft (2.502 m); minimum, 5.5 ft^3/s (0.16 m^3/s) Dec. 11, gage height, 3.38 ft (1.030 m).

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	23	20	23	11	8.5	91	397	59	49	779	35	31
2	23	22	23	10	8.3	90	328	59	74	208	35	16
3	23	30	22	9.4	8.3	90	193	50	126	201	35	14
4	22	24	9.0	8.9	8.2	70	193	18	116	199	35	9.1
5	22	23	7.3	8.7	23	25	191	18	72	198	35	8.3
6	22	23	8.4	8.8	19	22	141	56	78	198	36	7.9
7	22	23	7.6	8.6	13	22	45	89	100	197	35	7.8
8	22	23	7.7	8.2	12	321	44	197	175	197	35	13
9	22	23	7.5	8.2	11	86	44	195	175	152	35	12
10	22	22	7.4	8.2	10	101	44	195	175	77	35	12
11	22	22	6.5	8.4	10	496	43	193	149	77	34	12
12	21	22	7.4	8.2	9.6	863	40	132	61	66	34	12
13	21	22	7.3	8.1	9.4	1020	26	222	61	36	35	13
14	21	22	7.6	8.0	9.3	1030	26	496	53	36	35	14
15	20	22	8.9	7.9	9.1	1020	26	374	30	36	34	13
16	20	22	8.3	7.9	10	1040	26	371	33	38	34	13
17	20	22	7.8	7.9	148	990	25	334	29	36	34	13
18	20	22	7.5	7.9	64	981	25	247	38	36	34	14
19	20	24	7.4	8.2	28	750	37	88	35	35	34	13
20	20	27	7.5	8.7	21	465	55	87	30	35	34	15
21	20	23	7.4	8.0	30	461	164	87	29	35	34	14
22	20	23	7.4	8.1	21	329	383	88	29	35	34	13
23	21	23	7.4	8.0	18	132	289	88	28	35	36	13
24	21	23	7.9	8.2	25	61	116	79	56	36	34	13
25	21	23	14	11	20	48	112	56	282	35	34	13
26	20	23	13	10	74	46	111	30	593	35	34	13
27	20	23	11	9.3	80	45	110	41	583	35	34	14
28	20	23	11	8.9	91	62	108	34	779	35	34	13
29	20	23	40	8.8	91	74	108	46	1010	35	35	13
30	20	26	18	8.8	---	128	99	46	987	35	34	13
31	20	---	13	8.7	---	400	---	47	---	35	35	---
TOTAL	651	693	349.2	269.0	889.7	11359	3549	4122	6035	3223	1071	395.1
MEAN	21.0	23.1	11.3	8.68	30.7	366	118	133	201	104	34.5	13.2
MAX	23	30	40	11	148	1040	397	496	1010	779	36	31
MIN	20	20	6.5	7.9	8.2	22	25	18	28	35	34	7.8
AC-FT	1290	1370	693	534	1760	22530	7040	8180	11970	6390	2120	784

CAL YR 1975	TOTAL	54874.2	MEAN 150	MAX 1930	MIN 6.5	AC-FT	108800
WTR YR 1976	TOTAL	32606.0	MEAN 89.1	MAX 1040	MIN 6.5	AC-FT	64670

07341000 SALINE RIVER NEAR DIERKS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1975 to September 1976.

COOPERATION.--Records furnished by Corps of Engineers, Tulsa, Okla.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily, 29.5°C July 31, Aug. 1; minimum daily, 0.0°C on several days during January.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	21.0	21.5	17.5	16.0	17.0	14.0	13.0	13.5	4.5	4.0	4.5
2	21.0	19.5	20.0	17.5	17.0	17.5	13.0	11.0	12.0	4.5	4.0	4.5
3	20.0	18.0	19.0	19.0	17.5	18.0	11.5	10.5	11.0	4.0	3.0	3.5
4	19.0	17.5	18.5	18.5	18.0	18.5	11.0	10.0	10.5	3.0	1.5	2.0
5	19.0	17.0	18.0	19.0	18.0	18.5	12.0	11.0	11.5	2.0	0.5	1.5
6	19.5	18.0	18.5	18.5	17.5	18.0	12.5	12.0	12.0	2.5	1.5	2.0
7	20.0	19.0	19.0	19.0	18.0	18.0	12.5	12.0	12.0	2.5	0.5	2.0
8	20.0	18.5	19.5	18.5	18.0	18.5	12.5	12.0	12.0	1.0	0.0	0.5
9	20.5	19.0	20.0	19.0	18.0	18.5	12.0	11.0	12.0	1.0	0.0	0.5
10	21.5	20.0	20.5	18.5	17.5	18.0	11.0	9.5	10.0	1.5	0.5	1.0
11	22.5	21.0	21.5	17.5	16.0	17.0	10.0	9.0	9.5	2.0	1.0	1.5
12	22.5	21.5	22.0	17.0	15.0	16.0	9.5	9.0	9.5	1.0	0.0	0.5
13	22.5	21.5	22.0	14.5	14.0	14.5	10.5	9.0	9.5	2.5	1.0	2.0
14	22.5	21.0	22.0	---	---	---	11.5	10.5	10.5	2.5	0.5	1.5
15	22.5	21.0	21.5	---	---	---	11.0	9.5	11.0	2.0	0.5	1.5
16	22.0	21.0	21.5	---	---	---	10.0	8.5	9.0	2.0	1.0	1.5
17	22.0	20.5	21.0	---	---	---	8.5	7.0	7.5	1.5	0.0	1.0
18	20.5	19.0	19.5	---	---	---	7.0	5.0	5.5	1.5	0.0	1.0
19	19.0	17.5	18.5	---	---	---	5.0	3.5	4.5	1.0	1.0	1.5
20	18.5	17.0	17.5	---	---	---	4.5	3.0	4.0	2.5	1.0	2.0
21	18.5	17.0	17.5	---	---	---	4.0	2.5	3.5	2.0	0.0	1.0
22	19.0	17.5	18.5	---	---	---	3.5	3.0	3.0	2.0	0.5	1.0
23	19.5	18.5	19.0	---	---	---	4.0	3.0	3.5	2.0	0.0	1.0
24	20.5	19.5	20.0	---	---	---	4.0	3.0	3.5	3.0	1.5	2.0
25	20.5	18.5	19.5	---	---	---	3.0	2.0	2.5	4.0	2.5	3.0
26	18.5	17.0	18.0	---	---	---	3.5	2.5	3.0	3.0	2.0	2.0
27	17.0	16.0	16.5	---	---	---	3.5	2.0	3.0	2.0	0.0	1.0
28	17.0	16.0	16.5	---	---	---	4.0	2.5	3.5	1.5	0.0	1.0
29	18.5	17.0	18.0	---	---	---	5.0	4.0	4.5	1.5	0.0	1.0
30	18.5	18.0	18.0	---	---	---	5.0	5.0	5.0	1.5	0.0	1.0
31	18.0	17.0	17.5	---	---	---	5.0	4.0	4.5	0.5	0.0	0.0
MONTH	22.5	16.0	19.5	---	---	---	14.0	2.0	7.5	4.5	0.0	1.5

07341000 SALINE RIVER NEAR DIERKS, AR--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.0	12.0	12.0	14.0	10.5	12.0	16.0	14.0	15.0
2	---	---	---	12.5	11.5	12.0	14.5	10.5	12.5	18.5	15.5	17.0
3	---	---	---	13.0	12.0	12.5	14.0	11.5	13.0	---	---	---
4	---	---	---	13.0	12.5	13.0	14.5	12.0	13.0	20.0	16.5	18.0
5	9.0	8.5	9.0	13.0	12.0	12.5	14.5	12.5	13.0	19.5	18.0	19.0
6	9.0	8.0	8.5	13.5	11.5	12.5	14.5	11.5	13.5	19.0	18.0	18.5
7	8.0	6.5	7.5	12.5	11.5	12.0	16.5	14.0	15.0	19.0	17.5	18.5
8	8.0	6.0	7.0	11.5	10.0	10.5	17.5	15.0	16.0	17.0	12.5	14.5
9	8.5	6.5	7.5	11.5	10.5	11.0	18.0	15.5	16.5	15.5	12.5	14.0
10	10.5	8.0	9.0	13.0	10.5	11.5	19.0	15.0	16.5	15.5	13.0	14.0
11	12.0	10.0	11.0	10.0	8.5	10.0	19.0	16.0	17.0	16.5	12.5	14.5
12	12.5	11.0	11.5	10.5	9.0	9.0	19.5	17.0	18.0	16.0	13.0	14.0
13	13.5	11.5	12.5	9.5	8.5	9.0	19.0	18.0	18.5	18.0	13.5	15.5
14	13.5	12.0	13.0	10.0	9.0	9.0	20.5	18.5	19.0	14.5	12.5	13.5
15	14.0	13.0	13.5	9.5	9.0	9.5	21.0	19.0	20.0	14.0	13.0	13.5
16	15.5	14.0	14.5	11.5	9.5	10.0	20.0	19.5	20.0	15.0	13.0	13.0
17	15.0	13.5	14.5	11.5	9.5	10.0	21.0	19.0	20.0	16.0	13.0	14.0
18	---	---	---	12.0	10.0	10.5	20.0	19.0	19.5	16.5	12.5	14.5
19	14.0	11.5	12.5	12.0	10.5	11.0	19.0	18.0	18.5	18.5	14.5	16.0
20	13.0	12.0	12.5	12.5	10.5	11.5	18.5	17.0	18.0	20.0	18.5	19.0
21	13.0	11.0	12.0	13.0	9.5	11.0	20.0	13.0	17.5	20.5	20.0	20.0
22	12.0	10.0	11.0	13.5	10.0	11.5	15.0	11.5	13.0	21.5	20.5	21.0
23	12.0	9.5	10.5	14.0	11.5	13.0	14.5	12.0	13.0	21.5	20.5	21.0
24	11.5	9.5	10.5	14.0	13.0	14.0	14.5	14.0	14.5	21.0	20.0	20.5
25	12.0	10.0	11.0	13.5	13.0	13.0	15.0	13.5	14.0	21.5	20.5	21.0
26	12.0	10.5	11.0	15.0	13.5	14.0	15.0	13.5	14.0	20.5	19.5	20.0
27	12.0	11.0	11.5	16.0	13.0	14.5	15.5	13.5	14.5	19.5	19.0	19.0
28	12.0	11.5	11.5	15.0	13.5	14.0	15.5	13.5	14.0	21.5	18.5	19.5
29	12.0	11.0	11.5	17.0	13.5	14.5	13.5	12.5	13.0	22.0	19.5	20.5
30	---	---	---	16.0	12.0	14.5	14.0	12.0	13.0	22.0	21.5	22.0
31	---	---	---	13.5	10.5	12.0	---	---	---	23.0	21.0	22.0
MONTH	15.5	6.0	11.0	17.0	8.5	12.0	21.0	10.5	15.5	23.0	12.5	17.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	22.5	23.0	17.5	16.5	17.0	29.5	28.0	28.5	---	---	---
2	23.5	22.0	22.5	19.0	16.5	17.5	28.0	27.0	27.5	25.5	24.5	25.0
3	22.5	20.5	21.5	19.0	17.0	18.0	27.0	25.5	26.0	25.0	24.0	24.5
4	22.0	20.0	21.0	19.5	17.5	18.5	26.0	24.5	25.5	25.5	24.0	24.5
5	21.5	20.5	21.0	19.5	17.5	18.5	26.0	24.5	25.5	26.0	24.5	25.0
6	21.0	20.0	20.5	20.0	17.5	19.0	27.5	25.5	26.5	26.0	24.5	25.5
7	22.0	20.0	21.0	20.5	18.0	19.0	28.0	26.0	27.0	25.5	24.0	24.5
8	22.5	19.0	21.0	20.5	18.0	19.5	27.0	26.0	26.5	26.5	24.5	25.5
9	22.5	19.0	21.0	20.5	18.5	19.5	26.5	25.0	25.5	26.5	25.0	25.5
10	22.5	19.5	21.0	23.5	20.5	22.0	27.0	25.0	26.0	26.0	24.0	24.5
11	22.5	19.5	21.0	25.0	23.5	24.0	27.0	25.5	26.5	24.0	22.5	23.5
12	23.5	22.0	22.5	25.5	24.5	25.0	27.5	25.5	26.5	23.5	22.0	23.0
13	24.5	22.5	23.5	26.0	24.5	25.0	27.5	26.0	26.5	23.5	22.0	23.0
14	24.0	22.5	23.5	27.0	25.5	26.0	28.0	26.0	27.0	24.0	23.0	23.5
15	24.0	23.0	23.5	27.0	25.0	26.0	28.5	27.0	27.5	25.0	23.5	24.0
16	25.0	23.0	24.0	26.0	25.5	26.0	28.5	27.0	28.0	25.0	24.0	24.5
17	24.5	23.5	24.0	26.5	25.0	26.0	23.5	27.0	28.0	24.5	23.5	24.0
18	24.0	23.0	23.5	26.5	25.5	26.0	28.0	27.0	27.5	24.0	23.5	23.5
19	24.0	22.5	23.0	26.5	25.0	26.0	27.0	25.5	26.0	24.0	23.0	23.5
20	24.5	21.5	23.0	27.0	25.5	26.5	26.5	25.0	26.0	24.0	23.5	23.5
21	24.5	22.0	23.5	27.5	26.0	27.0	27.0	25.0	26.0	24.0	22.5	23.0
22	24.0	23.5	23.5	28.0	26.5	27.0	27.0	25.0	26.0	23.5	21.5	22.5
23	24.0	23.0	23.5	28.0	26.5	27.0	26.0	25.0	25.5	23.0	21.5	22.5
24	24.0	23.0	23.5	28.0	27.0	27.5	25.0	24.0	24.5	23.5	22.0	22.5
25	23.0	17.5	21.5	28.0	26.0	27.0	25.5	23.5	24.5	23.5	22.0	23.0
26	18.0	15.5	16.0	---	---	---	26.5	25.0	26.0	23.0	22.5	22.5
27	16.5	15.0	15.5	28.5	27.0	28.0	26.0	26.0	26.0	23.0	22.0	22.5
28	16.5	15.0	15.5	---	---	---	---	---	---	23.0	22.0	22.5
29	17.0	15.5	16.0	29.0	27.0	28.0	---	---	---	22.0	21.0	21.5
30	17.0	16.0	16.5	29.0	27.5	28.5	---	---	---	22.0	20.0	21.0
31	---	---	---	29.5	27.5	28.5	---	---	---	---	---	---
MONTH	25.0	15.0	21.5	29.5	16.5	24.0	29.5	23.5	26.5	26.5	20.0	23.5

07341200 SALINE RIVER NEAR LOCKESBURG, AR

LOCATION.--Lat 33°57'43", long 94°03'40", in NW¼SE¼ sec.23, T.9 S., R.29 W., Sevier County, near right bank on downstream side of bridge on State Highway 24, 2.0 mi (3.2 km) downstream from Brushy Creek, 6.0 mi (9.7 km) east of Lockesburg, and at mile 30 (48 km).

DRAINAGE AREA.--260 mi^2 (673 km^2).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft (91.440 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good. Some regulation by Dierks Lake 26.6 mi (43 km) upstream since May 1975 (see station 07340990).

AVERAGE DISCHARGE.--13 years, 390 ft^3/s (11.0 m^3/s), 282,600 acre-ft/yr (348 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,700 ft^3/s (1,830 m^3/s) May 14, 1968, gage height, 20.86 ft (6.358 m), from rating curve extended above 23,000 ft^3/s (651 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.20 ft^3/s (0.006 m^3/s) Nov. 6, 1963, Oct. 29, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 6 or 7, 1961, reached a stage of about 25.7 ft (7.83 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,500 ft^3/s (184 m^3/s) Mar. 9, gage height, 15.78 ft (4.810 m); minimum daily, 12 ft^3/s (0.34 m^3/s) Sept. 8.

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	24	25	46	106	26	152	581	109	85	1140	36	40
2	24	28	37	81	24	146	550	84	119	972	36	40
3	23	59	32	65	23	142	331	80	160	504	36	35
4	23	66	30	52	23	146	267	62	166	510	36	48
5	23	35	24	41	48	203	255	31	132	396	37	26
6	24	29	28	37	261	135	246	491	250	333	40	17
7	24	27	25	34	130	95	129	843	779	290	41	14
8	24	27	22	32	86	2160	84	372	292	270	38	12
9	24	27	20	27	72	5450	78	309	242	253	39	15
10	24	27	19	25	60	1450	73	276	220	143	39	17
11	24	27	18	26	52	754	71	267	210	107	38	16
12	24	26	18	26	46	1110	70	255	134	101	38	16
13	24	25	17	26	40	1220	64	358	80	77	38	15
14	23	25	18	25	36	1360	53	871	75	50	37	18
15	24	25	19	23	33	1430	50	772	63	49	37	20
16	24	27	22	22	31	1280	46	666	116	49	36	19
17	24	27	23	21	261	1200	44	602	104	53	36	18
18	24	27	20	21	2980	1140	43	444	156	46	36	18
19	24	28	18	21	807	1100	90	225	424	44	35	19
20	24	50	18	30	275	702	706	131	185	40	35	20
21	24	56	18	40	443	641	638	124	99	40	35	22
22	24	33	18	33	420	605	560	120	69	39	35	21
23	25	29	18	30	197	279	542	117	58	38	38	18
24	26	28	18	26	146	154	230	115	61	38	37	17
25	29	28	34	32	132	128	191	96	3260	39	36	16
26	28	28	79	52	132	126	169	81	3720	38	36	16
27	26	29	68	48	156	115	150	283	1360	37	36	18
28	25	29	61	36	160	109	141	197	996	37	36	19
29	26	29	888	32	157	661	138	114	1190	36	40	18
30	25	37	550	30	---	399	136	93	1160	36	39	17
31	25	---	168	27	---	492	---	86	---	36	40	---
TOTAL	759	963	2394	1127	7257	25084	6726	8674	15965	5841	1152	625
MEAN	24.5	32.1	77.2	36.4	250	809	224	280	532	188	37.2	20.8
MAX	29	66	888	106	2980	5450	706	871	3720	1140	41	48
MIN	23	25	17	21	23	95	43	31	58	36	35	12
AC-FT	1510	1910	4750	2240	14390	49750	13340	17200	31670	11590	2280	1240

CAL YR 1975 TOTAL 153535 MEAN 421 MAX 10200 MIN 17 AC-FT 304500
WTR YR 1976 TOTAL 76567 MEAN 209 MAX 5450 MIN 12 AC-FT 151900

07341200 SALINE RIVER NEAR LOCKESBURG, AR--Continued

WATER-QUALITY RECORDS

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
23...	1028	1028	24	--	--	--	17.5	--	--	--
28...	9827	9827	27	53	7.2	18.0	15.0	45	15	7.2
DEC										
02...	9827	9827	41	54	7.1	2.0	5.0	45	10	10.0
JAN										
13...	9827	9827	27	80	6.7	19.0	6.0	55	15	11.3
14...	1028	1028	25	--	--	1.5	5.5	--	--	--
FEB										
10...	9827	9827	61	90	7.2	17.0	8.0	80	35	10.3
26...	1028	1028	101	--	--	7.0	10.5	--	--	--
MAR										
09...	9827	9827	6200	43	6.4	8.0	9.0	120	75	9.2
APR										
08...	1028	1028	87	--	--	28.0	16.5	--	--	--
12...	9827	9827	70	78	6.9	20.0	17.0	45	10	8.4
MAY										
11...	9827	9827	272	70	7.1	22.0	16.0	60	20	8.4
20...	1028	1028	127	--	--	25.0	18.5	--	--	--
JUN										
08...	9827	9827	310	75	7.2	23.0	21.0	80	40	6.8
JUL										
08...	1028	1028	266	--	--	31.0	21.5	--	--	--
14...	9827	9827	49	67	7.0	30.0	25.0	40	15	6.6
AUG										
10...	1028	1028	37	--	--	29.0	26.5	--	--	--
11...	9827	9827	38	59	6.7	26.0	24.0	40	15	5.9
SEP										
08...	9827	9827	11	76	6.9	25.0	23.0	50	20	5.1
23...	1028	1028	17	--	--	23.5	21.0	--	--	--

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
23...	--	--	--	--	--	--	--	--	--	--
28...	71	1.1	6900	100	140	--	--	--	--	--
DEC										
02...	82	1.3	400	54	220	--	--	--	--	--
JAN										
13...	91	1.6	500	30	60	34	14	7.0	18	4.0
14...	--	--	--	--	--	--	--	--	--	--
FEB										
10...	87	1.8	270	40	70	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	79	2.2	7000	3200	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
12...	87	1.5	200	75	10	26	6	7.0	18	2.0
MAY										
11...	84	1.0	230	33	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUN										
08...	76	2.0	3600	400	--	--	--	--	--	--
JUL										
08...	--	--	--	--	--	--	--	--	--	--
14...	79	2.6	400	40	--	26	6	5.0	12	3.0
AUG										
10...	--	--	--	--	--	--	--	--	--	--
11...	69	1.3	60	15	--	--	--	--	--	--
SEP										
08...	59	1.1	240	20	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--

07341200 SALINE RIVER NEAR LOCKESBURG, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
23...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	4.0	5.0	59	10
DEC										
02...	--	--	--	--	--	--	5.0	5.5	56	13
JAN										
13...	4.4	1.9	24	0	20	7.7	10	8.0	79	7
14...	--	--	--	--	--	--	--	--	--	--
FEB										
10...	--	--	--	--	--	--	7.0	8.0	95	19
26...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	3.0	4.0	58	40
APR										
08...	--	--	--	--	--	--	--	--	--	--
12...	3.5	1.5	24	0	20	4.8	8.0	5.0	60	14
MAY										
11...	--	--	--	--	--	--	1.0	5.0	74	8
20...	--	--	--	--	--	--	--	--	--	--
JUN										
08...	--	--	--	--	--	--	14	4.5	78	28
JUL										
08...	--	--	--	--	--	--	--	--	--	--
14...	4.7	1.4	24	0	20	3.8	2.0	5.0	56	7
AUG										
10...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	5.0	3.5	49	11
SEP										
08...	--	--	--	--	--	--	2.0	5.5	60	8
23...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
23...	--	--	--	--	--	--	--	--	--	--
28...	69	.34	.04	--	--	--	--	--	--	--
DEC										
02...	69	.35	.04	--	--	--	--	--	--	--
JAN										
13...	86	.65	.06	<3	<10	<3	<10	1200	30	100
14...	--	--	--	--	--	--	--	--	--	--
FEB										
10...	114	.39	.03	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	98	.81	.11	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
12...	74	.70	<.01	<3	<10	<3	<10	860	20	97
MAY										
11...	82	.55	.09	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUN										
08...	106	.59	.05	--	--	--	--	--	--	--
JUL										
08...	--	--	--	--	--	--	--	--	--	--
14...	63	.27	.07	<3	<10	<3	20	1300	30	210
AUG										
10...	--	--	--	--	--	--	--	--	--	--
11...	60	.24	.05	--	--	--	--	--	--	--
SEP										
08...	68	.45	.04	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--

07341200 SALINE RIVER NEAR LOCKESBURG, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
23...	--	--	--	--	--	--	--	--	--
28...	--	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
02...	--	--	--	--	--	--	--	--	--
JAN									
13...	<10	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
FEB									
10...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
MAR									
09...	--	--	--	--	--	--	--	--	--
APR									
08...	--	--	--	--	--	--	--	--	--
12...	20	--	--	--	--	--	--	--	--
MAY									
11...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
JUN									
08...	--	--	--	--	--	--	--	--	--
JUL									
08...	--	--	--	--	--	--	--	--	--
14...	20	--	--	--	--	--	--	--	--
AUG									
10...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
SEP									
08...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--

07341300 MILLWOOD LAKE NEAR ASHDOWN, AR

LOCATION.--Lat 33°41'28", long 93°57'53" (revised), in NW¼ sec.26, T.12 S., R.28 W., Little River County, at Millwood Dam on Little River, 9.2 mi (14.8 km) east of Ashdown, 9.6 mi (15.4 km) upstream from Hudson Creek, and at mile 16.0 (25.7 km).

DRAINAGE AREA.--4,144 mi² (10,730 km²).

PERIOD OF RECORD.--August 1966 to current year. Prior to October 1969, published as Millwood Reservoir near Ashdown.

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

REMARKS.--Lake is formed by earthfill dam. Outlet works consists of two 5-ft (1.5-m) by 6-ft (1.8-m) rectangular sluices. Flows over the spillway are controlled by fourteen 40-ft (12.2-m) by 32-ft (9.8-m) taintor gates. Regulated storage began Aug. 16, 1966. Capacity between elevations 257.0 ft (78.33 m) and 287.0 ft (87.48 m) is 1,709,000 acre-ft (2,110 hm³) and is reserved for flood-control storage. Lake is used for flood-control, future water-supply, water-quality control, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of flood-control pool.....	287.0 (87.48 m)	1,854,900 (2,290 hm³)
Top of conservation pool.....	257.0 (78.33 m)	145,900 (180 hm³)
Bottom of lowest outlet.....	223.0 (67.97 m)	393 (0.485 hm³)

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,457,000 acre-ft (1,800 hm³) May 22, 1968, elevation, 282.59 ft (86.133 m); minimum since initial filling to conservation pool, 96,000 acre-ft (118 hm³) Sept. 26, 1971, elevation, 254.73 ft (77.642 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 256,400 acre-ft (316 hm³) Mar. 11, elevation, 260.86 ft (79.510 m); minimum, 199,700 acre-ft (246 hm³) Oct. 23, elevation, 259.02 ft (78.949 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

259 199.2 261 261.0

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208200	203200	201800	215600	210000	208800	222600	218000	221400	210800	218300	213200
2	207300	204400	202900	217400	208800	209100	223800	212000	218600	205000	216800	213500
3	207000	209400	206100	217100	207300	209400	222900	205600	218000	207600	214100	214700
4	206700	210000	207900	213800	206400	210600	218300	203800	220200	212600	210300	215000
5	206400	210300	207900	211200	207900	210600	213800	206700	221700	217400	207900	215900
6	206100	210600	211400	208200	208500	207600	208500	221700	222900	215000	208800	213800
7	205800	211700	212000	207900	206400	207900	207000	236200	222300	208500	207300	213200
8	205800	212600	213200	205600	206400	231200	207600	246400	220400	206400	208500	213200
9	205800	213800	213200	204700	205800	245700	207900	249200	218300	206400	207000	212600
10	206100	212600	213800	205300	206100	254100	210600	244400	214700	208800	206400	212000
11	205800	212000	214100	205600	206700	252800	212900	236800	213500	209700	207900	210000
12	205800	210000	214700	203500	206700	249600	210600	228100	215900	209100	209700	208800
13	205600	208200	214700	204100	207000	240300	207300	220800	216800	208200	210300	209400
14	205300	207900	215300	204100	207600	231800	205600	216200	215600	210600	210600	212000
15	205300	207300	216800	203800	207900	222900	202600	220200	215900	211700	210000	212000
16	205600	207600	213800	203800	209400	213800	202000	219800	218000	212000	208800	212000
17	204100	207900	213200	203500	213800	210000	205000	211400	216800	210000	207600	212600
18	202900	207900	210000	202600	217400	207600	208500	205000	222900	210000	207300	212900
19	202600	212000	211200	205800	215900	208500	210800	203800	226000	206700	207900	212900
20	201800	212300	212300	205800	212600	210600	217100	205000	223200	206700	208200	212600
21	201500	212900	210300	206700	218000	210000	218000	206100	220200	206400	208200	211400
22	200600	212300	208800	207300	218000	207900	217100	205600	216800	207600	207300	210000
23	200900	213200	206700	208200	215600	207300	216800	205600	214400	209100	205800	209100
24	203500	214400	207900	209700	210800	209700	217100	203800	215300	210000	205800	208800
25	202000	211700	210600	216200	208200	209400	213800	205000	224400	209700	207300	207300
26	202600	209400	210600	215300	206400	209400	210000	215600	234600	207000	207600	208200
27	202600	206400	211700	212900	207300	208200	210300	238100	244400	205800	207900	208200
28	202600	204700	214700	212300	207900	211700	212300	250500	243200	207300	210600	206400
29	203500	204100	215900	211700	208200	215900	213500	243200	231800	209700	215600	207000
30	203200	203500	216200	211400	---	220200	215300	231800	222300	212300	215000	206700
31	202600	---	215300	211200	---	221100	---	225000	---	215900	215000	---
MAX	208200	214400	216800	217400	218000	254100	223800	250500	244400	217400	218300	215900
MIN	200600	203200	201800	202600	205800	207300	202000	203800	213500	205000	205800	206400
(†)	259.12	259.15	259.55	259.41	259.31	259.74	259.55	259.87	259.78	259.57	259.54	259.26
(‡)	-5900	+900	+11800	-4100	-3000	+12900	-5800	+9700	-2700	-6400	-900	-8300

CAL YR 1975 MAX 406000 MIN 99970 ‡ +88500
WTR YR 1976 MAX 254100 MIN 200600 ‡ -1800

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07341301 LITTLE RIVER AT MILLWOOD DAM, NEAR ASHDOWN, AR

LOCATION.--Lat 33°41'28", long 93°57'53" (revised), in NW¼ sec.26, T.12 S., R.28 W., Little River County, at Millwood Dam, 9.2 mi (14.8 km) east of Ashdown, 9.6 mi (15.4 km) upstream from Hudson Creek, and at mile 16.0 (25.7 km).

DRAINAGE AREA.--4,144 mi^2 (10,730 km^2).

PERIOD OF RECORD.--October 1966 to current year. Records for October 1965 to September 1966, published in WRD Ark., 1968, are unreliable and should not be used.

REVISED RECORDS.--WRD Ark. 1969: 1967-68.

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

REMARKS.--Discharge computations based on gate openings, and head and tailwater elevations at Millwood Dam. Flow completely regulated by Millwood Lake since Aug. 16, 1966 (see station 07341300).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--10 years, 6,683 ft^3/s (189 m^3/s), 4,842,000 acre-ft/yr (5,970 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 67,300 ft^3/s (1,910 m^3/s) May 13, 1973; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 21,300 ft^3/s (603 m^3/s) Mar. 11; no flow at times.

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	268	160	1300	2710	1220	1400	3660	5990	8250	12200	958	1190
2	268	160	672	2710	1220	1400	4290	5990	8120	8210	1720	1190
3	268	160	672	2710	1220	1400	4840	4410	8050	2970	2480	1190
4	268	160	672	2710	1220	1400	4770	1830	4580	2970	2480	1190
5	268	160	672	2710	1220	1930	4600	797	2500	2980	1480	1190
6	268	160	672	2710	1220	2380	4600	797	2500	4570	706	1190
7	268	160	672	2710	1220	2380	2870	3000	2950	5800	706	640
8	268	160	672	2710	1220	5060	1400	5000	3520	3810	706	702
9	268	160	672	2420	1010	13500	1400	5670	3510	1760	706	1190
10	268	702	672	2120	672	20900	1510	7400	3470	1300	706	1190
11	268	1160	672	2120	672	21300	1510	8460	2390	1310	706	1190
12	268	1160	672	1800	672	19900	2510	8310	1470	1310	706	1190
13	268	851	672	886	672	17600	3150	10700	1470	1310	1320	763
14	268	610	672	672	672	17400	3150	11000	1470	1310	1730	443
15	268	610	1220	672	672	15500	2660	8010	1470	1860	1730	740
16	268	610	1670	672	672	12500	1490	11700	1470	2420	1730	935
17	268	610	1700	672	1000	10300	921	13300	1470	1990	1130	1170
18	268	610	1720	672	4100	7550	921	9900	1480	1770	706	1440
19	268	610	1720	517	7170	5840	921	6870	2470	1770	706	1440
20	212	610	1720	318	5400	4320	4370	5070	3010	1310	706	1440
21	160	610	1720	318	1520	4320	13000	3420	3010	958	706	1440
22	160	610	1720	318	1520	4320	15900	2530	2990	958	706	1440
23	160	610	1720	318	3070	2690	15800	2530	2970	1580	706	1440
24	160	610	920	318	4390	2250	15800	1960	2970	1960	531	1060
25	160	2450	432	318	4390	2270	15800	1380	4050	1920	443	689
26	160	3600	432	807	2770	1980	12500	1380	5850	1920	443	689
27	160	3480	432	1220	1400	1570	10600	1400	6950	1370	443	689
28	160	2730	432	1220	1400	1570	10600	7320	8870	958	443	689
29	160	2050	1430	1220	1400	1570	10200	14800	11600	958	443	689
30	160	2050	2710	1220	---	2700	7630	12300	12600	958	443	689
31	160	---	2710	1220	---	3660	---	9220	---	958	770	---
TOTAL	7064	28383	34444	43718	55004	212860	183373	192444	127480	77428	29895	31127
MEAN	228	946	1111	1410	1897	6866	6112	6208	4249	2498	964	1038
MAX	268	3600	2710	2710	7170	21300	15900	14800	12600	12200	2480	1440
MIN	160	160	432	318	672	1400	921	797	1470	958	443	443
AC-FT	14010	56300	68320	86710	109100	422200	363700	381700	252900	153600	59300	61740

CAL YR 1975 TOTAL 2178187 MEAN 5968 MAX 40300 MIN 160 AC-FT 4320000
WTR YR 1976 TOTAL 1023220 MEAN 2796 MAX 21300 MIN 160 AC-FT 2030000

07341500 RED RIVER AT FULTON, AR

LOCATION.--Lat 33°36'26", long 93°48'56", in NE¼SE¼ sec.20, T.13 S., R.26 W., Hempstead-Miller County line, near left bank on downstream side of bridge on U.S. Highway 67 at Fulton, 0.2 mi (0.3 km) downstream from Missouri Pacific Railroad Co. bridge, 2.5 mi (4.0 km) downstream from Little River, and at mile 463.0 (745.0 km).

DRAINAGE AREA.--52,380 mi^2 (135,660 km^2), of which 5,936 mi^2 (15,374 km^2) is probably noncontributing.

PERIOD OF RECORD.--October 1927 to current year. January 1932 to May 1934 monthly discharge only, published in WSP 1311. Prior to October 1949, published as "at Garland." Gage heights collected in the present vicinity since October 1885 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 224.94 ft (68.562 m) above mean sea level. Prior to Oct. 1, 1934, nonrecording gage, and Oct. 1, 1934, to Sept. 30, 1949, water-stage recorder, at Garland 39.0 mi (62.8 km) downstream at different datum. Oct. 1, 1949, to Dec. 31, 1966, nonrecording gage at present site and datum.

REMARKS.--Some regulation by Lake Texoma (Texas), 263 mi (423 km) upstream, capacity, 5,530,300 acre-ft (6,820 hm^3), since Oct. 31, 1943, and by Millwood Lake since Aug. 16, 1966 (see station 07341300).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--49 years, 17,730 ft^3/s (502 m^3/s), 12,850,000 acre-ft/yr (15,800 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 338,000 ft^3/s (9,570 m^3/s) Feb. 24, 1938, gage height, 36.45 ft (11.110 m), present site and datum; maximum gage height, 37.4 ft (11.40 m) Apr. 2, 1945, present site and datum; minimum discharge, 390 ft^3/s (11.0 m^3/s) Oct. 26, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46,200 ft^3/s (1,310 m^3/s) Apr. 25, gage height, 15.60 ft (4.755 m); minimum daily, 2,000 ft^3/s (56.6 m^3/s) Jan. 20.

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	5200	4300	5100	6500	3200	6600	5500	32000	18000	18000	5600	4300
2	4700	4500	4700	7300	4100	6500	5400	27000	21000	17000	6000	4700
3	3700	4600	4200	7900	4100	5400	5800	20000	22000	9700	6500	4600
4	3200	4000	4000	8300	3900	4900	6100	13000	21000	9800	6200	4300
5	3200	3500	4400	8300	3700	4300	7100	11000	22000	13000	5500	3800
6	3500	3800	5400	7700	3400	4200	7100	11000	23000	17000	4900	3400
7	3500	4500	6800	7100	3200	4200	5800	17000	21000	19000	4700	3300
8	3400	4300	6700	7300	3500	8300	4000	23000	20000	15000	4200	3100
9	3400	4000	5600	6800	3900	22000	4000	31000	18000	8600	3700	3500
10	3300	3900	4600	5700	3700	29000	4100	35000	16000	6500	3200	3900
11	2900	4000	4200	5800	3400	28000	4100	33000	13000	5200	3400	3600
12	2800	4100	4200	6400	3800	28000	4700	28000	9700	4900	3900	3400
13	3200	3900	4200	6800	3900	33000	5500	25000	8400	5200	4500	3300
14	3700	3700	4100	6700	3300	33000	5200	26000	7700	5200	4700	3100
15	4100	3300	4200	5500	2900	29000	4500	23000	6700	5200	4600	3200
16	4300	3000	4800	4300	2900	25000	3900	25000	5800	5200	5100	3300
17	3800	3100	4900	2900	3300	21000	3500	27000	5300	4600	5200	3400
18	3100	3000	5100	2500	4700	16000	3400	25000	5900	4300	4400	3500
19	2700	2700	4700	2300	8400	13000	3300	23000	9000	4800	4300	3900
20	3100	3000	4000	2000	8300	9700	4500	21000	13000	6100	4500	4900
21	3600	3500	4200	2100	4500	8500	13000	19000	15000	11000	3800	5500
22	3600	3500	4800	2100	3400	8200	24000	16000	16000	12000	3500	5400
23	3600	3100	5200	2400	4600	6800	35000	14000	17000	9300	3200	5400
24	3400	3300	5500	2200	7600	5500	42000	12000	12000	7500	3300	5300
25	2700	3900	5000	2100	8000	5100	46000	9900	9900	7100	3300	4600
26	2600	6200	4500	2400	7100	4700	46000	9600	10000	7100	3400	3700
27	3500	7200	4400	3000	5300	4100	45000	12000	11000	7000	3200	3500
28	4400	7100	4600	3300	5200	3900	43000	15000	13000	6500	2900	3300
29	4800	5900	5200	3300	5800	4000	41000	22000	15000	6800	2700	3300
30	5000	5300	6600	3100	---	4500	38000	21000	18000	6500	2800	3500
31	4700	---	6500	2800	---	5500	---	18000	---	6100	3400	---
TOTAL	112700	124200	152400	146900	133100	391900	470500	644500	423400	271200	130600	118000
MEAN	3635	4140	4916	4739	4590	12640	15680	20790	14110	8748	4213	3933
MAX	5200	7200	6800	8300	8400	33000	46000	35000	23000	19000	6500	5500
MIN	2600	2700	4000	2000	2900	3900	3300	9600	5300	4300	2700	3100
AC-FT	223500	246400	302300	291400	264000	777300	933200	1278000	839800	537900	259000	234100

CAL YR 1975	TOTAL	7970300	MEAN	21840	MAX	93000	MIN	2600	AC-FT	15810000
WTR YR 1976	TOTAL	3119400	MEAN	8523	MAX	46000	MIN	2000	AC-FT	6187000

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR

LOCATION.--Lat 33°14'32", long 93°59'58", in SE¼SE¼ sec.28, T.17 S., R.28 W., Miller County, at bridge on State Highway 237, 13.5 mi (21.7 km) south of Texarkana.

PERIOD OF RECORD.--October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark. Additional records furnished by Corps of Engineers, New Orleans, La.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
05...	810	810	2.0	200	8.1	--	19.1	--	--	6.8
11...	810	810	2.0	200	7.8	--	19.8	--	--	7.3
11...	810	810	5.0	200	7.8	--	19.8	--	--	7.0
23...	810	810	2.0	200	7.9	--	20.8	--	--	6.5
28...	9827	9827	--	216	7.8	23.0	18.0	15	30	8.5
30...	810	810	2.0	200	8.0	--	19.7	--	--	7.9
30...	810	810	5.0	200	7.8	--	19.6	--	--	8.0
NOV										
04...	810	810	2.0	200	8.5	--	18.3	--	--	8.5
04...	810	810	5.0	200	8.3	--	18.6	--	--	8.4
10...	810	810	2.0	300	8.5	--	20.1	--	--	9.1
16...	810	810	2.0	200	8.1	--	13.2	--	--	7.1
22...	810	810	2.0	300	7.6	--	9.0	--	--	6.7
28...	810	810	2.0	200	--	--	7.5	--	--	8.9
DEC										
02...	9827	9827	--	319	7.4	17.0	9.0	40	10	8.0
03...	810	810	2.0	300	--	--	8.5	--	--	7.0
11...	810	810	2.0	200	7.8	--	7.7	--	--	11.1
16...	810	810	2.0	300	7.8	--	9.1	--	--	11.6
21...	810	810	2.0	300	8.0	--	5.1	--	--	11.3
JAN										
01...	810	810	2.0	200	5.3	--	8.5	--	--	10.0
07...	810	810	2.0	200	7.9	--	5.5	--	--	11.4
13...	9827	9827	--	252	7.4	23.0	6.0	25	15	12.0
14...	810	810	2.0	200	7.1	--	7.0	--	--	12.0
21...	810	810	2.0	100	7.4	--	6.2	--	--	8.8
27...	810	810	2.0	80	7.8	--	8.8	--	--	8.5
27...	810	810	5.0	60	7.3	--	9.4	--	--	8.5
FEB										
04...	810	810	2.0	90	8.1	--	8.7	--	--	8.7
09...	810	810	2.0	200	7.8	--	7.5	--	--	8.3
10...	9827	9827	--	213	7.0	26.0	10.0	70	25	9.1
15...	810	810	2.0	300	7.9	--	15.0	--	--	5.3
22...	810	810	2.0	500	7.0	--	12.8	--	--	8.0
22...	810	810	5.0	500	7.1	--	12.9	--	--	7.9
MAR										
04...	810	810	2.0	900	7.9	--	17.2	--	--	7.1
04...	810	810	5.0	800	7.8	--	17.0	--	--	6.6
09...	9827	9827	--	174	6.8	10.0	11.0	160	50	8.5
10...	810	810	2.0	300	7.8	--	10.0	--	--	9.0

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
05...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
28...	89	2.0	--	460	120	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
DEC										
02...	69	.8	80	<7	<5	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JAN										
01...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
13...	96	3.2	42000	13	110	82	10	26	66	4.0
14...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
10...	81	1.6	400	13	100	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
09...	77	2.5	5000	2600	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)
MAR											
10...	810	810	5.0	300	7.7	--	10.1	--	--	8.8	--
10...	810	810	10	300	7.5	--	10.1	--	--	8.5	--
11...	810	810	2.0	--	--	--	13.2	--	--	6.8	--
11...	810	810	3.0	--	--	--	12.8	--	--	6.9	--
11...	810	810	5.0	--	--	--	12.5	--	--	6.9	--
11...	810	810	7.0	--	--	--	12.5	--	--	7.0	--
11...	810	810	9.0	--	--	--	1.2	--	--	7.0	--
11...	810	810	11	--	--	--	12.2	--	--	7.0	--
11...	810	810	13	--	--	--	12.1	--	--	7.0	--
11...	810	810	15	--	--	--	12.1	--	--	7.0	--
11...	810	810	17	--	--	--	12.0	--	--	6.9	--
24...	810	810	2.0	300	7.3	--	15.1	--	--	7.2	--
24...	810	810	5.0	300	7.2	--	15.2	--	--	6.4	--
24...	810	810	10	300	7.1	--	15.3	--	--	6.2	--
27...	810	810	2.0	300	7.1	--	15.9	--	--	7.8	--
27...	810	810	5.0	300	7.2	--	15.9	--	--	7.0	--
27...	810	810	10	300	7.2	--	15.9	--	--	6.8	--
31...	810	810	2.0	200	6.7	--	15.7	--	--	8.4	--
31...	810	810	5.0	200	6.9	--	15.9	--	--	7.6	--
APR											
07...	810	810	2.0	200	6.9	--	19.1	--	--	6.8	--
07...	810	810	5.0	200	6.9	--	18.7	--	--	6.5	--
12...	9827	9827	--	303	7.1	24.0	22.0	20	35	2.3	26
12...	810	810	2.0	200	5.5	--	20.1	--	--	3.0	--
20...	810	810	2.0	300	6.0	--	20.4	--	--	3.1	--
25...	810	810	2.0	300	6.6	--	21.1	--	--	2.4	--
29...	810	810	2.0	200	6.0	--	18.5	--	--	5.0	--
MAY											
05...	810	810	2.0	200	--	--	19.0	--	--	7.2	--
05...	810	810	5.0	200	--	--	19.2	--	--	6.9	--
05...	810	810	10	200	--	--	19.3	--	--	6.6	--
11...	9827	9827	--	379	7.5	30.0	19.0	160	30	7.0	74
12...	810	810	2.0	--	--	--	21.9	--	--	6.7	--
12...	810	810	5.0	--	--	--	21.6	--	--	6.8	--
12...	810	810	10	--	--	--	21.5	--	--	6.8	--
19...	810	810	2.0	200	7.4	--	20.5	--	--	7.5	--
19...	810	810	5.0	200	7.3	--	20.5	--	--	7.4	--
19...	810	810	10	200	7.3	--	20.5	--	--	6.8	--
26...	810	810	2.0	200	7.5	--	20.4	--	--	7.1	--
26...	810	810	5.0	200	7.4	--	20.6	--	--	6.9	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
MAR										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	48	--	16	16	--	2.0
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
12...	2.1	<50	26	7	78	33	--	24	60	4.0
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
11...	3.8	800	27	--	--	--	--	--	--	--
12...	--	--	--	--	31	--	11	9.0	--	2.0
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
MAY										
26...	810	810	10	200	7.4	--	20.6	--	--	6.3
JUN										
02...	810	810	2.0	200	7.8	--	23.0	--	--	7.5
02...	810	810	5.0	200	7.8	--	23.0	--	--	6.4
02...	810	810	10	200	7.8	--	22.9	--	--	6.0
02...	810	810	15	200	7.8	--	22.9	--	--	5.8
08...	9827	9827	--	226	7.5	32.0	24.0	50	65	7.1
09...	810	810	2.0	200	--	--	23.1	--	--	6.8
09...	810	810	5.0	300	--	--	23.1	--	--	6.3
09...	810	810	10	300	--	--	23.1	--	--	6.0
18...	810	810	2.0	400	7.4	--	25.5	--	--	6.5
18...	810	810	5.0	400	7.3	--	25.6	--	--	6.0
18...	810	810	10	400	7.2	--	25.8	--	--	5.8
18...	810	810	15	400	7.2	--	25.7	--	--	5.0
22...	810	810	2.0	400	8.0	--	24.3	--	--	6.2
22...	810	810	5.0	400	7.8	--	24.5	--	--	5.9
22...	810	810	10	400	7.7	--	24.6	--	--	5.7
22...	810	810	15	400	7.6	--	24.6	--	--	5.4
JUL										
14...	9827	9827	--	192	7.5	36.0	28.0	50	25	4.9
AUG										
11...	9827	9827	--	206	7.2	35.0	27.0	40	25	5.6
16...	810	810	2.0	200	7.4	--	30.6	--	--	5.9
25...	810	810	2.0	200	7.9	--	29.7	--	--	5.9
25...	810	810	5.0	200	7.7	--	29.4	--	--	6.1
31...	810	810	2.0	100	2.9	--	27.2	--	--	7.8
SEP										
08...	810	810	2.0	200	7.5	--	27.4	--	--	7.1
08...	810	810	5.0	200	7.4	--	27.3	--	--	7.2
08...	9827	9827	--	200	7.7	28.0	27.0	40	55	7.8
14...	810	810	2.0	100	7.4	--	27.2	--	--	7.2
14...	810	810	5.0	200	7.4	--	27.2	--	--	6.7
21...	810	810	2.0	100	7.4	--	25.3	--	--	7.0
21...	810	810	5.0	200	7.0	--	25.4	--	--	6.6
28...	810	810	2.0	200	7.5	--	24.0	--	--	6.7
28...	810	810	5.0	200	7.2	--	24.3	--	--	6.5

DATE	PERCENT SATURATION (00301)	HYDROGEN SULFIDE (MG/L) (71875)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
MAY										
26...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
08...	84	--	2.3	160	<7	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JUL										
14...	62	--	1.8	200	--	58	7	19	48	2.0
AUG										
11...	69	--	2.5	--	<7	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
31...	--	.0	2.0	--	--	--	--	--	--	--
SEP										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	96	--	3.4	190	27	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)
OCT												
28...	--	--	--	--	--	--	28	16	--	162	--	--
DEC												
02...	--	--	--	--	--	--	30	46	--	248	--	--
JAN												
13...	18	3.3	88	0	72	5.6	21	27	--	179	--	--
FEB												
10...	--	--	--	--	--	--	21	36	--	178	--	--
MAR												
09...	--	--	--	--	--	--	14	28	--	100	--	--
11...	--	--	--	--	--	--	60	18	25	--	226	.03
APR												
12...	21	3.1	55	0	45	7.0	31	39	--	194	--	--
MAY												
11...	--	--	--	--	--	--	29	55	--	267	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	17	16	--	135	--	--
JUL												
14...	11	3.6	62	0	51	3.1	11	12	--	124	--	--
AUG												
11...	--	--	--	--	--	--	14	12	--	138	--	--
31...	--	--	--	--	--	--	25	14	--	--	224	.30
SEP												
08...	--	--	--	--	--	--	8.0	9.5	--	136	--	--

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	VOLATILE FILTRABLE RESIDUE (MG/L) (00520)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	DISSOLVED KJEL. NITROGEN (N) (MG/L) (00623)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L) (00660)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT												
28...	46	208	--	.27	--	--	--	--	--	.09	--	--
DEC												
02...	6	254	--	.19	--	--	--	--	--	.06	--	--
JAN												
13...	24	203	--	.20	--	--	--	--	--	.07	--	<3
FEB												
10...	27	205	--	.37	--	--	--	--	--	.02	--	--
MAR												
09...	72	172	--	.54	--	--	--	--	--	.09	--	--
11...	--	--	5	.12	<.01	<.01	--	1.3	13	.12	--	--
APR												
12...	44	238	--	.30	--	--	--	--	--	.11	--	<3
MAY												
11...	49	316	--	.42	--	--	--	--	--	.21	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	60	195	--	.32	--	--	--	--	--	.10	--	--
JUL												
14...	32	156	--	.30	--	--	--	--	--	.12	--	<3
AUG												
11...	46	184	--	.31	--	--	--	--	--	.14	--	--
31...	61	--	--	.18	--	8.0	1.6	9.6	--	--	1.0	--
SEP												
08...	87	223	--	.12	--	--	--	--	--	.11	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)
OCT												
28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
02...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
13...	--	<10	<3	--	<10	1000	--	10	200	--	--	--
FEB												
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	4870	678	--	76	61	.5	.3
APR												
12...	--	<10	<3	--	<10	2100	--	<10	450	--	--	--
MAY												
11...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	2630	242	--	199	113	.7	.4
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
14...	--	<10	<3	--	20	1400	--	10	170	--	--	--
AUG												
11...	--	--	--	--	--	--	--	--	--	--	--	--
31...	<10	--	<20	<20	--	240	550	--	--	--	--	--
SEP												
08...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL NICKEL (NI) (UG/L) (01067)	DIS-SOLVED NICKEL (NI) (UG/L) (01065)	TOTAL ZINC (ZN) (UG/L) (01092)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
02...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN												
13...	--	--	<10	--	--	--	--	--	--	--	--	--
FEB												
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
11...	22	--	22	16	--	--	--	--	--	--	--	--
APR												
12...	--	--	10	--	--	--	--	--	--	--	--	--
MAY												
11...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	142	10	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
14...	--	--	30	--	--	--	--	--	--	--	--	--
AUG												
11...	--	--	--	--	--	--	--	--	--	--	--	--
31...	<10	<10	10	30	--	--	--	--	--	--	--	--
SEP												
08...	--	--	--	--	--	--	--	--	--	--	--	--

07344300 DAYS CREEK SOUTHEAST OF TEXARKANA, AR

LOCATION.--Lat 33°19'15", long 93°59'53", in sec.33, T.16 S., R.28 W., Miller County, at bridge on State Highway 237, 4.4 mi (7.1 km) south of junction U.S. Highway 71 and State Highway 237, and 7.8 mi (12.6 km) southeast of Texarkana.

PERIOD OF RECORD.--December 1973 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
28...	9827	9827	16	1070	7.4	23.0	16.0	40	8	1.8
DEC										
02...	9827	9827	55	501	7.1	17.0	10.0	50	35	5.5
JAN										
13...	9827	9827	8.0	655	7.2	23.0	8.0	45	10	5.7
FEB										
10...	9827	9827	57	510	7.3	26.0	10.0	60	20	8.5
MAR										
09...	9827	9827	2370	74	6.5	11.0	10.0	180	110	8.3
APR										
12...	9827	9827	43	1010	7.7	24.0	22.0	35	8	11.4
MAY										
11...	9827	9827	27	435	7.2	30.0	20.0	80	20	5.6
JUN										
08...	9827	9827	24	663	7.4	32.0	25.0	30	<25	5.3
JUL										
14...	9827	9827	12	520	7.4	36.0	28.0	40	15	4.4
AUG										
11...	9827	9827	8.0	2600	7.4	36.0	27.0	50	8	2.5
SEP										
08...	9827	9827	11	1390	7.4	28.0	26.0	50	9	3.2

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
28...	18	11	400000	96000	60	--	--	--	--	--
DEC										
02...	48	7.6	100000	3200	330	--	--	--	--	--
JAN										
13...	48	15	15000	<50	<13	96	0	22	56	10
FEB										
10...	75	11	1100	100	20	--	--	--	--	--
MAR										
09...	73	4.6	50000	17000	--	--	--	--	--	--
APR										
12...	130	9.6	300	58	10	78	0	25	62	8.0
MAY										
11...	61	>5.6	3300	120	--	--	--	--	--	--
JUN										
08...	63	10	5400	25	--	--	--	--	--	--
JUL										
14...	56	11	7000	340	--	62	0	18	46	4.0
AUG										
11...	31	14	950	600	--	--	--	--	--	--
SEP										
08...	39	7.0	3000	500	--	--	--	--	--	--

07344300 DAYS CREEK SOUTHEAST OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 28...	--	--	--	--	--	--	76	340	653	15
DEC 02...	--	--	--	--	--	--	19	120	324	42
JAN 13...	87	7.0	120	0	98	12	33	120	358	26
FEB 10...	--	--	--	--	--	--	25	98	310	27
MAR 09...	--	--	--	--	--	--	2.0	10	59	98
APR 12...	150	7.5	100	0	82	3.2	38	220	--	--
MAY 11...	--	--	--	--	--	--	20	74	259	6
JUN 08...	--	--	--	--	--	--	25	130	358	16
JUL 14...	62	6.0	85	0	70	5.4	20	8.4	271	26
AUG 11...	--	--	--	--	--	--	43	610	1280	12
SEP 08...	--	--	--	--	--	--	24	340	679	15

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 28...	668	.21	3.1	--	--	--	<10	930	--	390
DEC 02...	366	.47	1.4	--	--	--	--	--	--	--
JAN 13...	384	1.2	2.4	<3	<10	<3	<10	1100	90	530
FEB 10...	337	.97	1.5	--	--	--	--	--	--	--
MAR 09...	157	.51	.20	--	--	--	--	--	--	--
APR 12...	--	.24	1.7	<3	<10	<3	<10	660	20	310
MAY 11...	265	.51	1.7	--	--	--	--	--	--	--
JUN 08...	374	.39	1.9	--	--	--	--	--	--	--
JUL 14...	297	.56	1.6	<3	<10	<3	20	1300	20	540
AUG 11...	1300	.11	3.3	--	--	--	--	--	--	--
SEP 08...	694	.15	2.0	--	--	--	--	--	--	--

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT 28...	40	--	--	--	--	--	--	--	--
DEC 02...	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN 13...	60	--	--	--	--	--	--	--	--
FEB 10...	--	--	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--	--	--
APR 12...	10	--	--	--	--	--	--	--	--
MAY 11...	--	--	--	--	--	--	--	--	--
JUN 08...	--	--	--	--	--	--	--	--	--
JUL 14...	20	--	--	--	--	--	--	--	--
AUG 11...	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--

07344340 SULPHUR RIVER NEAR FORT LYNN, AR

LOCATION.--Lat 33°08'58", long 93°53'32", in NE¼ sec.33, T.18 S., R.27 W., Miller County, at bridge on U.S. Highway 71, 1.2 mi (1.9 km) south of Fort Lynn.

PERIOD OF RECORD.--July 1973 to current year.

REMARKS.--Temperatures rounded to the nearest 0.5°C by Geological Survey.

COOPERATION.--Records furnished by Corps of Engineers, New Orleans, La.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	HARDNESS (CA,MG) (MG/L) (00900)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
MAR 11...	810	810	2.0	46	27	18	9.0	2.7	1.0	29	5.0
MAY 12...	810	810	2.0	34	35	10	9.0	3.8	3.0	--	--

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	VOLATILE FILTRABLE RESIDUE (MG/L) (00520)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	KJELDAHL NITROGEN (N) (MG/L) (00625)	DISSOLVED KJEL. NITROGEN (N) (MG/L) (00623)	TOTAL PHOSPHORUS (P) (MG/L) (00665)
MAR 11...	85	23	.12	8	.17	<.01	<.01	1.4	1.3	.05

DATE	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL IRON (FE) (UG/L) (01045)	DISSOLVED IRON (FE) (UG/L) (01046)	TOTAL MANGANESE (MN) (UG/L) (01055)	DISSOLVED MANGANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DISSOLVED MERCURY (HG) (UG/L) (71890)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)	DISSOLVED ZINC (ZN) (UG/L) (01090)
MAR 11...	11	861	58	98	--	.4	.3	16	25	21
MAY 12...	--	2630	100	118	109	.9	.8	--	129	12

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)
AUG 31...	810	810	2.0	125	38	80	360	.49

DATE	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL IRON (FE) (UG/L) (01045)	DISSOLVED IRON (FE) (UG/L) (01046)	TOTAL NICKEL (NI) (UG/L) (01067)
AUG 31...	.23	1.7	9.6	<20	790	250	<10

07344340 SULPHUR RIVER NEAR FORT LYNN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
OCT							
05...	810	810	2.0	400	7.5	18.9	6.5
11...	810	810	2.0	300	7.9	20.7	7.1
11...	810	810	5.0	300	7.7	19.7	6.9
23...	810	810	2.0	200	7.9	20.5	6.7
30...	810	810	2.0	200	7.9	19.5	8.5
30...	810	810	5.0	200	7.9	19.4	8.1
NOV							
04...	810	810	2.0	200	8.4	18.3	8.5
04...	810	810	5.0	200	8.1	18.6	8.4
10...	810	810	2.0	100	8.5	20.0	8.4
12...	810	810	2.0	500	7.5	10.9	7.8
12...	810	810	5.0	500	7.4	11.5	7.6
16...	810	810	2.0	200	7.8	14.0	7.0
28...	810	810	2.0	200	--	9.0	7.8
28...	810	810	5.0	200	--	9.3	7.0
DEC							
03...	810	810	2.0	300	--	9.0	6.9
11...	810	810	2.0	300	7.8	9.6	6.9
11...	810	810	5.0	300	7.4	9.7	6.3
16...	810	810	2.0	500	7.6	10.7	10.9
16...	810	810	5.0	500	7.5	11.2	11.1
21...	810	810	2.0	400	7.9	5.4	9.0
JAN							
01...	810	810	2.0	200	6.0	8.4	10.2
07...	810	810	2.0	20	6.1	5.7	11.4
07...	810	810	5.0	10	6.1	5.9	11.2
14...	810	810	2.0	200	3.9	7.3	--
14...	810	810	5.0	200	4.3	7.6	--
21...	810	810	2.0	200	8.1	6.4	8.4
21...	810	810	5.0	300	8.4	6.9	8.0
27...	810	810	2.0	100	7.0	8.7	9.8
27...	810	810	5.0	80	7.2	9.0	9.0
FEB							
04...	810	810	2.0	40	8.3	8.6	8.5
04...	810	810	5.0	80	8.0	8.6	8.3
09...	810	810	2.0	200	7.7	7.3	12.3
09...	810	810	5.0	200	7.6	7.4	12.4
15...	810	810	2.0	300	7.9	15.2	6.6
15...	810	810	5.0	300	7.8	15.1	6.2
24...	810	810	2.0	600	8.4	12.4	7.8
24...	810	810	5.0	200	8.1	12.8	7.5
MAR							
04...	810	810	2.0	600	7.8	16.9	7.4
04...	810	810	5.0	600	7.6	16.8	7.0
10...	810	810	2.0	80	8.0	9.5	9.5
10...	810	810	5.0	80	7.9	9.6	9.0
10...	810	810	10	80	7.8	9.6	8.9
11...	810	810	2.0	--	--	--	--
24...	810	810	2.0	300	6.3	15.3	7.5
24...	810	810	5.0	300	6.4	15.5	7.0
24...	810	810	10	300	6.3	15.6	6.9
27...	810	810	2.0	300	6.9	15.7	8.0
27...	810	810	5.0	300	7.1	15.9	7.7
27...	810	810	10	300	7.3	16.0	6.9
31...	810	810	2.0	200	5.6	15.3	8.3
31...	810	810	5.0	200	6.0	15.8	7.3
APR							
07...	810	810	2.0	200	7.0	19.0	8.8
07...	810	810	5.0	200	6.9	18.9	8.4
12...	810	810	2.0	300	4.2	19.6	5.6
12...	810	810	5.0	300	5.0	19.9	4.9
20...	810	810	2.0	300	7.1	21.3	5.0
20...	810	810	5.0	300	7.1	21.8	3.9
25...	810	810	2.0	300	5.3	21.1	5.3
25...	810	810	5.0	300	5.2	21.4	5.1
25...	810	810	10	300	5.2	21.8	4.8
29...	810	810	2.0	200	--	18.9	5.6
MAY							
05...	810	810	2.0	200	--	19.5	7.1
05...	810	810	5.0	200	--	19.8	6.8
05...	810	810	10	200	--	19.8	6.9
12...	810	810	2.0	--	--	20.9	7.0
12...	810	810	5.0	--	--	21.0	6.8
12...	810	810	2.0	--	--	--	--
19...	810	810	2.0	200	7.5	19.7	7.6
19...	810	810	5.0	200	7.5	20.1	6.6
19...	810	810	10	200	7.4	20.1	6.4
26...	810	810	2.0	200	7.4	21.7	6.9
26...	810	810	5.0	200	7.4	22.1	6.6
26...	810	810	10	200	7.4	22.1	5.9

07344340 SULPHUR RIVER NEAR FORT LYNN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
JUN							
02...	810	810	2.0	100	7.9	22.2	6.0
02...	810	810	5.0	100	7.8	22.3	5.4
02...	810	810	10	100	7.9	22.3	4.9
09...	810	810	2.0	200	--	23.0	6.9
09...	810	810	5.0	200	--	23.2	6.3
09...	810	810	10	200	--	23.2	5.7
09...	810	810	15	200	--	23.2	5.6
18...	810	810	2.0	400	7.0	25.6	5.5
18...	810	810	5.0	400	6.9	25.7	4.6
18...	810	810	10	400	6.9	25.7	4.5
22...	810	810	2.0	300	7.5	23.5	5.9
22...	810	810	5.0	300	7.4	23.7	5.6
22...	810	810	10	300	7.3	23.7	5.1
AUG							
16...	810	810	2.0	200	7.3	30.5	5.3
25...	810	810	2.0	200	7.2	29.5	4.6
25...	810	810	5.0	200	7.2	29.1	4.5
31...	810	810	2.0	500	7.3	27.9	3.4
31...	810	810	5.0	500	7.2	27.8	3.2
31...	810	810	10	500	7.1	27.8	3.1
31...	810	810	15	500	7.1	27.8	3.1
SEP							
08...	810	810	2.0	200	7.9	27.8	5.7
08...	810	810	5.0	200	7.7	27.7	5.6
14...	810	810	2.0	200	7.1	26.5	6.9
14...	810	810	5.0	200	7.0	26.6	6.6
14...	810	810	10	200	6.9	26.7	6.5
14...	810	810	15	200	7.0	26.7	6.5
14...	810	810	20	200	7.2	26.7	6.5
21...	810	810	2.0	200	7.1	25.1	5.4
21...	810	810	5.0	200	6.8	25.0	5.3
21...	810	810	10	200	6.7	24.9	5.2
21...	810	810	15	200	6.7	24.8	5.2
28...	810	810	2.0	200	6.8	23.7	6.3
28...	810	810	5.0	200	6.7	24.4	6.1
28...	810	810	10	200	6.6	24.5	5.9
28...	810	810	15	200	6.8	24.6	5.7
28...	810	810	20	200	6.9	24.7	5.7

07344350 RED RIVER NEAR SPRING BANK, AR

LOCATION.--Lat 33°05'29", long 93°51'38", in NW¼ sec.24, T.19 S., R.27 W., Miller County, at ferry landing, 1.8 mi (2.9 km) west of Spring Bank.

DRAINAGE AREA.--56,903 mi² (147,379 km²).

PERIOD OF RECORD.--October 1968 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 14...	9827	9827	707	8.0	23.0	22.0	25	25	7.8	89	2.9	100
NOV 18...	9827	9827	776	8.1	20.0	14.0	20	15	9.6	93	2.3	600
DEC 17...	9827	9827	746	8.1	4.0	10.0	55	40	9.9	87	2.2	140
JAN 27...	9827	9827	648	8.0	--	8.0	120	180	9.1	77	2.7	--
FEB 24...	9827	9827	597	8.0	26.0	13.0	60	50	10.3	97	3.0	400
MAR 23...	9827	9827	228	7.9	20.0	16.0	80	80	9.6	96	2.2	25
APR 26...	9827	9827	227	8.0	18.0	19.0	400	700	6.6	70	1.5	1300
MAY 25...	9827	9827	560	7.9	25.0	24.0	90	160	8.2	96	1.9	<50
JUN 29...	9827	9827	248	7.5	34.0	32.0	60	80	5.4	73	1.4	900
JUL 28...	9827	9827	383	8.0	33.0	31.0	50	45	8.7	114	1.3	25
AUG 25...	9827	9827	1140	8.2	32.0	27.0	30	30	8.4	104	4.4	<50
SEP 22...	9827	9827	1160	8.1	32.0	24.0	35	55	8.0	94	3.5	370

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 14...	40	100	--	--	--	--	--	--	--	--	--	--
NOV 18...	<6	5	260	39	73	180	18	76	4.7	270	0	221
DEC 17...	8	--	--	--	--	--	--	--	--	--	--	--
JAN 27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	100	78	170	--	44	110	14	58	4.6	--	0	--
MAR 23...	47	15	--	--	--	--	--	--	--	--	--	--
APR 26...	320	150	--	--	--	--	--	--	--	--	--	--
MAY 25...	13	20	140	69	38	96	12	54	4.9	87	0	71
JUN 29...	68	20	--	--	--	--	--	--	--	--	--	--
JUL 28...	50	--	130	32	34	86	10	28	3.9	120	0	98
AUG 25...	<10	--	--	--	--	--	--	--	--	--	--	--
SEP 22...	310	--	--	--	--	--	--	--	--	--	--	--

07344350 RED RIVER NEAR SPRING BANK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT 14...	--	150	110	504	65	569	<.10	.07	--	<10	0	<10
NOV 18...	3.4	110	100	511	31	542	.21	.07	<3	<10	0	<10
DEC 17...	--	110	110	490	52	542	.66	.06	--	--	--	--
JAN 27...	--	88	84	406	218	624	.70	.21	--	--	--	--
FEB 24...	--	70	83	361	61	422	.10	.16	<3	<10	<3	<10
MAR 23...	--	19	22	163	99	262	.32	.90	--	--	--	--
APR 26...	--	--	15	220	674	894	.40	.43	--	--	--	--
MAY 25...	1.8	62	81	373	123	496	.15	.09	<3	<10	<3	30
JUN 29...	--	18	20	171	118	289	<.10	.20	--	--	--	--
JUL 28...	1.9	28	32	212	56	268	.27	.10	<3	<10	<3	10
AUG 25...	--	110	190	753	51	804	.19	.08	--	--	--	--
SEP 22...	--	99	180	692	99	791	.32	.15	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT 14...	1000	20	230	<10	--	--	--	--	--	--	--	--
NOV 18...	830	30	200	<10	--	--	--	--	--	--	--	--
DEC 17...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN 27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	2000	30	270	10	--	--	--	--	--	--	--	--
MAR 23...	--	--	--	--	--	--	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	5500	120	250	30	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 28...	1200	20	220	20	--	--	--	--	--	--	--	--
AUG 25...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 22...	--	--	--	--	--	--	--	--	--	--	--	--

07348650 BAYOU DORCHEAT NEAR TAYLOR, AR

LOCATION.--Lat 33°05'53", long 93°22'53", in SE¼ sec.9, T.19 S., R.22 W., Columbia County, at bridge on State Highway 160, 4.4 mi (7.1 km) east of Taylor.

PERIOD OF RECORD.--October 1973 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
14...	9827	9827	3.4	351	6.6	20.0	19.0	40	15	3.2
NOV										
18...	9827	9827	12	242	6.9	16.0	11.0	45	10	5.6
DEC										
17...	9827	9827	38	402	6.8	4.0	7.0	30	6	9.4
JAN										
27...	9827	9827	301	296	6.7	3.0	7.0	60	15	8.7
FEB										
24...	9827	9827	810	172	6.2	16.0	10.0	75	9	7.4
MAR										
23...	9827	9827	370	175	6.4	14.0	18.0	60	10	7.4
APR										
26...	9827	9827	49	215	6.9	14.0	15.0	100	20	6.3
MAY										
25...	9827	9827	39	277	6.6	26.0	18.0	75	25	7.1
JUN										
26...	9827	9827	207	--	--	--	--	--	--	--
29...	9827	9827	--	212	6.6	33.0	28.0	100	20	5.3
JUL										
28...	9827	9827	12	259	7.0	31.0	26.0	120	40	4.6
AUG										
22...	9827	9827	26	--	--	--	--	--	--	--
SEP										
22...	9827	9827	--	335	6.9	26.0	18.0	65	6	6.3

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
14...	34	>3.2	420	67	50	--	--	--	--	--
NOV										
18...	51	1.0	900	310	1000	38	23	10	26	3.0
DEC										
17...	77	.4	650	220	--	--	--	--	--	--
JAN										
27...	72	.9	1200	800	1300	--	--	--	--	--
FEB										
24...	65	1.3	360	79	380	26	--	6.0	16	2.0
MAR										
23...	78	1.1	50	37	40	--	--	--	--	--
APR										
26...	62	1.0	13	120	110	--	--	--	--	--
MAY										
25...	75	1.9	<13	84	180	38	27	8.0	20	4.0
JUN										
26...	--	--	--	--	--	--	--	--	--	--
29...	67	.8	1600	230	270	--	--	--	--	--
JUL										
28...	56	1.9	1300	610	--	38	10	8.0	20	4.0
AUG										
22...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	66	1.5	1900	250	--	--	--	--	--	--

07348650 BAYOU DORCHEAT NEAR TAYLOR, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 14...	--	--	--	--	--	--	9.0	100	263	36
NOV 18...	34	3.6	18	0	15	3.6	18	62	162	9
DEC 17...	--	--	--	--	--	--	12	100	265	12
JAN 27...	--	--	--	--	--	--	19	72	194	9
FEB 24...	20	2.0	--	--	--	--	7.0	40	140	6
MAR 23...	--	--	--	--	--	--	4.0	43	145	26
APR 26...	--	--	--	--	--	--	--	45	151	32
MAY 25...	35	2.2	13	0	11	5.2	1.0	63	199	18
JUN 26...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	4.0	30	157	10
JUL 28...	32	2.9	34	0	28	5.4	<1.0	50	177	28
AUG 22...	--	--	--	--	--	--	--	--	--	--
SEP 22...	--	--	--	--	--	--	31	50	212	4

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 14...	299	.15	.17	--	--	--	--	--	--	--
NOV 18...	171	.16	.33	<3	<10	0	<10	820	80	150
DEC 17...	277	.38	.44	--	--	--	--	--	--	--
JAN 27...	203	.21	.20	--	--	--	--	--	--	--
FEB 24...	146	.11	.13	<3	<10	<3	<10	820	30	200
MAR 23...	119	.25	.20	--	--	--	--	--	--	--
APR 26...	183	.42	.57	--	--	--	--	--	--	--
MAY 25...	217	.68	.24	<3	<10	<3	20	2000	110	820
JUN 26...	--	--	--	--	--	--	--	--	--	--
29...	167	.17	.26	--	--	--	--	--	--	--
JUL 28...	205	.44	.48	<3	<10	<3	20	3200	20	1800
AUG 22...	--	--	--	--	--	--	--	--	--	--
SEP 22...	216	.29	1.7	--	--	--	--	--	--	--

07348650 BAYOU DORCHEAT NEAR TAYLOR, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
14...	--	--	--	--	--	--	--	--	--
NOV									
18...	<10	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
17...	--	--	--	--	--	--	--	--	--
JAN									
27...	--	--	--	--	--	--	--	--	--
FEB									
24...	40	--	--	--	--	--	--	--	--
MAR									
23...	--	--	--	--	--	--	--	--	--
APR									
26...	--	--	--	--	--	--	--	--	--
MAY									
25...	30	--	--	--	--	--	--	--	--
JUN									
26...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
JUL									
28...	30	--	--	--	--	--	--	--	--
AUG									
22...	--	--	--	--	--	--	--	--	--
SEP									
22...	--	--	--	--	--	--	--	--	--

07349440 BODCAU CREEK NEAR LEWISVILLE, AR

LOCATION.--Lat 33°15'36", long 93°33'00", in SE¼ sec.14, T.17 S., R.24 W., Lafayette County, at bridge on State Highway 313, 6.7 mi (10.8 km) southeast of Lewisville.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
14...	9827	9827	.00	203	6.9	19.0	19.0	50	15	5.8
NOV										
18...	9827	9827	5.0	281	6.8	16.0	11.0	35	7	8.4
DEC										
17...	9827	9827	6.0	198	6.6	3.0	7.0	35	6	7.9
JAN										
27...	9827	9827	580	310	6.0	.0	6.0	70	20	7.8
FEB										
24...	9827	9827	490	110	6.1	13.0	10.0	100	10	7.4
25...	9827	9827	--	--	--	--	--	--	--	--
MAR										
23...	9827	9827	430	105	6.3	14.0	15.0	80	15	6.1
APR										
26...	9827	9827	25	195	6.8	11.0	16.0	40	10	6.4
MAY										
25...	9827	9827	25	125	6.4	19.0	18.0	100	25	5.9
JUN										
29...	9827	9827	814	136	6.1	36.0	28.0	150	20	5.2
JUL										
28...	9827	9827	31	137	6.7	29.0	28.0	100	25	4.9
AUG										
25...	9827	9827	.00	174	7.0	26.0	23.0	220	85	3.5
SEP										
22...	9827	9827	25	436	6.6	19.0	19.0	40	6	5.3

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
14...	62	.9	700	55	60	--	--	--	--	--
NOV										
18...	76	.8	460	110	110	32	9	10	24	2.0
DEC										
17...	65	1.0	180	82	--	--	--	--	--	--
JAN										
27...	63	2.1	3500	1500	2200	--	--	--	--	--
FEB										
24...	65	1.6	3100	250	160	22	--	5.0	12	2.0
25...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	60	1.4	400	350	<10	--	--	--	--	--
APR										
26...	64	2.3	480	60	67	--	--	--	--	--
MAY										
25...	62	2.3	2300	280	93	34	25	6.0	14	5.0
JUN										
29...	66	.8	3400	220	110	--	--	--	--	--
JUL										
28...	62	.7	840	1100	--	24	10	6.0	14	2.0
AUG										
25...	40	3.2	750	190	--	--	--	--	--	--
SEP										
22...	56	2.3	750	80	--	--	--	--	--	--

07349440 BODCAU CREEK NEAR LEWISVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
14...	--	--	--	--	--	--	11	54	145	24
NOV										
18...	43	3.5	28	0	23	7.1	9.0	73	181	14
DEC										
17...	--	--	--	--	--	--	8.0	48	138	16
JAN										
27...	--	--	--	--	--	--	16	80	201	28
FEB										
24...	12	1.6	--	0	--	--	5.0	23	108	8
25...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	--	--	--	--	--	--	3.0	22	--	--
APR										
26...	--	--	--	--	--	--	--	42	123	25
MAY										
25...	13	1.9	11	0	9	7.0	1.0	25	117	19
JUN										
29...	--	--	--	--	--	--	1.0	29	120	17
JUL										
28...	16	1.9	17	0	14	5.4	<1.0	26	114	16
AUG										
25...	--	--	--	--	--	--	1.0	35	173	46
SEP										
22...	--	--	--	--	--	--	13	99	265	1

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
14...	169	.13	.10	--	--	--	--	--	--	--
NOV										
18...	195	--	--	<3	<10	0	60	350	<10	110
DEC										
17...	154	<.10	.23	--	--	--	--	--	--	--
JAN										
27...	229	.19	.13	--	--	--	--	--	--	--
FEB										
24...	116	.12	.12	<3	<10	<3	<10	1300	20	160
25...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	--	.18	.10	--	--	--	--	--	--	--
APR										
26...	148	.22	.21	--	--	--	--	--	--	--
MAY										
25...	136	.33	.12	<3	<10	<3	20	2100	60	260
JUN										
29...	137	.14	.10	--	--	--	--	--	--	--
JUL										
28...	130	.54	.32	<3	20	<3	<10	2400	<10	410
AUG										
25...	219	.40	.25	--	--	--	--	--	--	--
SEP										
22...	266	.30	.28	--	--	--	--	--	--	--

07349440 BODCAU CREEK NEAR LEWISVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
14...	--	.00	.00	.00	.00	.00	.00	.00	<1
NOV									
18...	<10	--	--	--	--	--	--	--	--
DEC									
17...	--	--	--	--	--	--	--	--	--
JAN									
27...	--	--	--	--	--	--	--	--	--
FEB									
24...	10	--	--	--	--	--	--	--	--
25...	--	.00	.00	--	.00	.00	.00	.00	<1
MAR									
23...	--	--	--	--	--	--	--	--	--
APR									
26...	--	--	--	--	--	--	--	--	--
MAY									
25...	20	--	--	--	--	--	--	--	--
JUN									
29...	--	--	--	--	--	--	--	--	--
JUL									
28...	20	--	--	--	--	--	--	--	--
AUG									
25...	--	--	--	--	--	--	--	--	--
SEP									
22...	--	--	--	--	--	--	--	--	--

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR

LOCATION.--Lat 34°36'36", long 93°41'50", inSE¼SW¼ sec.32, T.1 S., R.25 W., Montgomery County, on right bank 300 ft (91 m) upstream from bridge on U.S. Highway 270, 3.1 mi (5.0 km) upstream from Fiddler's Creek, 5.2 mi (8.4 km) northwest of Mount Ida, and at mile 553.4 (890.4 km).

DRAINAGE AREA.--410 mi^2 (1,062 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1211: 1947(m).

GAGE.--Water-stage recorder. Datum of gage is 655.14 ft (199.687 m) above mean sea level. Prior to Dec. 3, 1941, and Mar. 1, 1945, to Apr. 1, 1946, nonrecording gage, Dec. 3, 1941, to Feb. 21, 1945, and Apr. 2, 1946, to Nov. 2, 1949, water-stage recorder, all at site 350 ft (107 m) downstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--35 years, 721 ft^3/s (20.4 m^3/s), 23.88 in/yr (607 mm/yr), 522,400 acre-ft/yr (644 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,500 ft^3/s (2,700 m^3/s) Dec. 10, 1971, gage height, 38.62 ft (11.771 m), from floodmarks; minimum, 2.3 ft^3/s (0.065 m^3/s) Aug. 25, 1954, gage height, 1.03 ft (0.314 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Dec. 10, 1971, was about 3.0 ft (0.9 m) higher than that of 1908 and is the highest since at least that date, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,930 ft^3/s (253 m^3/s) Mar. 9, gage height, 13.25 ft (4.039 m), no peaks above base of 11,000 ft^3/s (310 m^3/s); minimum, 13 ft^3/s (0.37 m^3/s) Aug. 22-25, gage height, 1.15 ft (0.351 m).

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	57	50	154	1120	133	264	481	230	428	267	25	34
2	57	50	187	872	126	230	420	204	622	207	25	36
3	56	61	168	718	124	209	373	176	432	178	26	42
4	53	99	142	585	121	190	338	152	298	150	26	56
5	51	130	132	490	126	207	311	139	217	129	28	48
6	50	115	2320	429	135	218	282	178	199	111	32	37
7	49	102	2140	397	133	200	247	238	167	95	31	30
8	48	92	1910	348	136	2310	217	298	217	84	27	26
9	47	84	701	302	132	7540	195	207	163	75	24	25
10	47	77	531	260	126	3070	174	169	127	68	22	24
11	46	73	425	255	127	1780	159	148	102	61	32	22
12	44	68	352	247	125	1390	150	144	85	56	19	22
13	42	63	299	237	123	1110	157	202	74	51	17	20
14	41	60	262	210	123	900	157	348	65	46	16	20
15	40	56	242	193	121	824	155	345	58	43	16	20
16	40	57	293	179	120	710	144	276	64	41	17	22
17	39	57	308	167	504	602	131	233	66	39	16	26
18	39	57	253	159	1980	524	127	202	133	36	15	497
19	38	63	217	153	1180	468	141	169	338	33	15	321
20	38	99	193	154	816	432	444	144	335	31	15	195
21	38	126	178	154	784	405	1630	125	199	31	14	161
22	38	145	156	149	466	420	947	109	141	32	13	133
23	41	129	154	144	660	345	673	98	113	31	13	98
24	53	110	148	139	560	308	537	107	125	29	13	77
25	60	99	168	142	482	295	551	104	1450	27	14	65
26	61	97	217	149	416	282	464	91	1920	27	20	58
27	76	94	319	156	364	267	362	117	910	29	16	56
28	77	90	513	147	319	252	311	139	617	30	19	54
29	84	87	3100	142	285	472	276	152	472	31	22	52
30	98	110	2730	139	---	715	250	131	348	28	24	47
31	92	---	1620	137	---	560	---	225	---	26	31	---
TOTAL	1540	2602	19647	9073	11267	27499	10804	5600	10485	2122	643	2324
MEAN	49.7	86.7	634	293	389	887	360	181	350	68.5	20.7	77.5
MAX	77	145	3100	1120	1980	7540	1630	348	1920	267	32	497
MIN	38	50	132	137	120	190	127	91	58	26	13	20
CFSM	.12	.21	1.55	.71	.95	2.16	.88	.44	.85	.17	.05	.19
IN.	.14	.24	1.78	.82	1.02	2.50	.98	.51	.95	.19	.06	.21
AC-FT	3050	5160	38970	18000	22350	54540	21430	11110	20800	4210	1280	4610

CAL YR 1975 TOTAL 257184 MEAN 705 MAX 14600 MIN 33 CFSM 1.72 IN 23.33 AC-FT 510100
WTR YR 1976 TOTAL 103606 MEAN 283 MAX 7540 MIN 13 CFSM .69 IN 9.40 AC-FT 205500

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-52, April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1949 to September 1952.
WATER TEMPERATURES: October 1949 to September 1952.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
15...	9827	9827	40	75	7.5	29.0	25.0	15	5	8.2
21...	1028	1028	36	--	--	--	16.5	--	--	--
NOV										
19...	9827	9827	59	80	7.5	21.0	17.0	10	4	9.7
DEC										
03...	1028	1028	159	--	--	--	8.0	--	--	--
09...	9827	9827	712	41	7.0	11.0	14.0	75	30	10.0
JAN										
15...	1028	1028	197	--	--	--	5.5	--	--	--
21...	9827	9827	131	63	7.3	16.0	14.0	15	6	12.5
FEB										
18...	9827	9827	2030	46	7.1	16.0	17.0	60	85	9.2
23...	1028	1028	638	--	--	--	10.0	--	--	--
MAR										
17...	9827	9827	610	43	7.1	16.0	15.0	25	15	10.3
APR										
06...	1028	1028	264	--	--	--	17.0	--	--	--
14...	9827	9827	154	67	7.4	21.0	20.0	5	3	9.1
MAY										
18...	1028	1028	199	--	--	--	19.5	--	--	--
19...	9827	9827	159	71	7.4	25.0	23.0	20	<25	9.4
JUN										
16...	9827	9827	80	66	7.3	28.0	27.0	15	<25	6.8
16...	1028	1028	67	--	--	--	27.0	--	--	--
JUL										
27...	9827	9827	28	96	7.4	32.0	31.0	15	5	7.3
27...	1028	1028	27	--	--	--	30.0	--	--	--
AUG										
24...	9827	9827	13	112	7.5	28.0	26.0	5	4	7.4
SEP										
08...	1028	1028	28	--	--	--	24.0	--	--	--
28...	9827	9827	67	87	7.3	21.0	24.0	15	4	7.2

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
15...	98	1.5	30	27	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
NOV										
19...	100	1.5	10	9	--	--	--	--	--	--
DEC										
03...	--	--	--	--	--	--	--	--	--	--
09...	96	1.8	1300	1400	1100	18	3	5.0	12	1.0
JAN										
15...	--	--	--	--	--	--	--	--	--	--
21...	120	3.0	13	7	10	22	0	6.0	16	1.0
FEB										
18...	95	3.0	9100	7000	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
17...	101	2.0	220	67	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
14...	99	2.4	22	12	--	18	0	7.0	18	<1.0
MAY										
18...	--	--	--	--	--	--	--	--	--	--
19...	108	2.9	160	24	--	--	--	--	--	--
JUN										
16...	84	1.7	--	1300	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	97	3.1	1600	<1600	20	34	0	12	30	1.0
27...	--	--	--	--	--	--	--	--	--	--
AUG										
24...	90	3.1	22	16	10	--	--	--	--	--
SEP										
08...	--	--	--	--	--	--	--	--	--	--
28...	85	--	640	60	--	--	--	--	--	--

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
15...	--	--	--	--	--	--	5.0	5.5	65	6
21...	--	--	--	--	--	--	--	--	--	--
NOV										
19...	--	--	--	--	--	--	4.0	5.0	58	6
DEC										
03...	--	--	--	--	--	--	--	--	--	--
09...	2.3	1.5	18	0	15	2.9	15	5.0	44	14
JAN										
15...	--	--	--	--	--	--	--	--	--	--
21...	2.8	.6	28	0	23	2.2	2.0	4.5	39	21
FEB										
18...	--	--	--	--	--	--	4.0	4.5	71	102
23...	--	--	--	--	--	--	--	--	--	--
MAR										
17...	--	--	--	--	--	--	1.0	3.5	37	22
APR										
06...	--	--	--	--	--	--	--	--	--	--
14...	2.3	.1	29	0	24	1.8	<1.0	3.5	--	--
MAY										
18...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	4.0	4.5	60	4
JUN										
16...	--	--	--	--	--	--	3.0	4.0	46	2
16...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	4.0	1.0	44	0	36	2.8	1.0	3.5	53	12
27...	--	--	--	--	--	--	--	--	--	--
AUG										
24...	--	--	--	--	--	--	1.0	3.5	60	2
SEP										
08...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	4.0	4.5	55	6

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
15...	71	<.10	<.01	--	<10	0	<10	180	<10	26
21...	--	--	--	--	--	--	--	--	--	--
NOV										
19...	64	.12	<.01	--	--	--	<10	250	--	32
DEC										
03...	--	--	--	--	--	--	--	--	--	--
09...	58	.68	.05	<3	<10	0	<10	1100	<10	29
JAN										
15...	--	--	--	--	--	--	--	--	--	--
21...	60	.15	<.01	<3	<10	<3	<10	350	30	60
FEB										
18...	173	.25	.15	--	--	--	20	2100	--	120
23...	--	--	--	--	--	--	--	--	--	--
MAR										
17...	59	.26	.01	--	--	--	<10	400	--	<27
APR										
06...	--	--	--	--	--	--	--	--	--	--
14...	--	<.10	<.01	<3	<10	<3	20	91	<10	<27
MAY										
18...	--	--	--	--	--	--	--	--	--	--
19...	64	<.10	.01	--	--	--	<10	240	--	<27
JUN										
16...	48	<.10	.03	--	--	--	<10	280	--	54
16...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	65	<.10	<.01	<3	<10	<3	<10	190	<10	70
27...	--	--	--	--	--	--	--	--	--	--
AUG										
24...	62	<.10	.03	--	<10	--	<10	190	--	<27
SEP										
08...	--	--	--	--	--	--	--	--	--	--
28...	61	<.10	<.01	--	--	--	<10	260	--	30

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
15...	<10	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
NOV									
19...	<10	--	--	--	--	--	--	--	--
DEC									
03...	--	--	--	--	--	--	--	--	--
09...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
15...	--	--	--	--	--	--	--	--	--
21...	<10	--	--	--	--	--	--	--	--
FEB									
18...	<10	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
MAR									
17...	<10	--	--	--	--	--	--	--	--
APR									
06...	--	--	--	--	--	--	--	--	--
14...	<10	--	--	--	--	--	--	--	--
MAY									
18...	--	--	--	--	--	--	--	--	--
19...	<10	--	--	--	--	--	--	--	--
JUN									
16...	<10	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
JUL									
27...	<10	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
AUG									
24...	<10	--	--	--	--	--	--	--	--
SEP									
08...	--	--	--	--	--	--	--	--	--
28...	<10	--	--	--	--	--	--	--	--

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR

LOCATION.--Lat 34°34'20", long 93°11'50", in NE¼ sec.12, T.2 S., R.21 W., Garland County, at Blakely Mountain Dam on Ouachita River, 2.4 mi (3.9 km) upstream from Glazypeau Creek, 3.8 mi (6.1 km) downstream from Mill Creek, 10.0 mi (16.1 km) northwest of Hot Springs, and at mile 487.0 (783.6 km).
DRAINAGE AREA.--1,105 mi² (2,862 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1952 to current year.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). July 7, 1952, to July 6, 1953, nonrecording gage at present site and datum.
REMARKS.--Lake is formed by rolled earthfill dam. The uncontrolled spillway is a channel 200 ft (61.0 m) wide located in natural saddle of ridge west of dam, and floodflows may be regulated by operations of three 8-ft (2.4-m) by 15-ft (4.6-m) gates. Storage began July 7, 1952. Capacity between elevations 578.0 ft (176.17 m) and 592.0 ft (180.44 m) is 617,300 acre-ft (761 hm³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest.....	592.0 (180.44 m)	2,768,400 (3,410 hm³)
Top of designated power pool.....	578.0 (176.17 m)	2,151,100 (2,650 hm³)
Top of conservation pool and bottom of designated power pool.....	535.0 (163.07 m)	864,900 (1,070 hm³)
Bottom of lowest outlet.....	480.0 (146.30 m)	--

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,609,300 acre-ft (3,217 hm³) May 19, 1968, elevation, 588.63 ft (179.414 m); minimum since top of conservation pool was first reached, 883,000 acre-ft (1,090 hm³) Jan. 9, 1954, elevation, 535.86 ft (163.330 m).
EXTREMES FOR WATER YEAR 1975.--Maximum contents, 2,282,200 acre-ft (2,810 hm³) Mar. 30, elevation, 581.20 ft (177.150 m); minimum, 1,941,100 acre-ft (2,390 hm³) Sept. 30, elevation, 572.55 ft (174.513 m).
EXTREMES FOR WATER YEAR 1976.--Maximum contents, 2,117,700 acre-ft (2,610 hm³) July 6, elevation, 577.16 ft (175.918 m); minimum, 1,835,200 acre-ft (2,260 hm³) Nov. 28, elevation, 569.63 ft (173.623 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

569	1,812.9	579	2,191.4
572	1,920.8	582	2,315.9
575	2,033.4		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2107000	2046000	2170000	2030000	1996000	2062000	2278000	2112000	2106000	2114000	2080000	1990000
2	2103000	2058000	2167000	2027000	2064000	2062000	2272000	2110000	2107000	2112000	2080000	1988000
3	2102000	2063000	2161000	2027000	2091000	2060000	2266000	2124000	2103000	2110000	2082000	1982000
4	2100000	2071000	2152000	2021000	2101000	2054000	2256000	2151000	2097000	2110000	2082000	1977000
5	2099000	2080000	2142000	2019000	2106000	2048000	2245000	2154000	2090000	2108000	2082000	1972000
6	2098000	2086000	2137000	2021000	2111000	2042000	2235000	2147000	2085000	2107000	2080000	1972000
7	2096000	2088000	2151000	2017000	2105000	2038000	2224000	2148000	2083000	2105000	2078000	1969000
8	2092000	2089000	2156000	2012000	2102000	2033000	2215000	2145000	2092000	2106000	2076000	1968000
9	2087000	2088000	2150000	2011000	2103000	2026000	2207000	2142000	2107000	2105000	2074000	1965000
10	2085000	2092000	2142000	2011000	2101000	2026000	2198000	2143000	2114000	2103000	2074000	1963000
11	2080000	2133000	2138000	2016000	2097000	2018000	2187000	2144000	2112000	2102000	2072000	1960000
12	2074000	2149000	2130000	2018000	2096000	2017000	2176000	2150000	2114000	2101000	2069000	1959000
13	2072000	2145000	2122000	2016000	2092000	2019000	2164000	2148000	2112000	2099000	2064000	1957000
14	2070000	2142000	2112000	2011000	2086000	2029000	2155000	2147000	2114000	2097000	2060000	1956000
15	2069000	2132000	2104000	2005000	2081000	2032000	2147000	2150000	2118000	2096000	2056000	1955000
16	2064000	2126000	2093000	2000000	2081000	2035000	2143000	2145000	2122000	2094000	2053000	1956000
17	2059000	2122000	2086000	1995000	2082000	2045000	2139000	2143000	2121000	2092000	2049000	1954000
18	2055000	2120000	2077000	1990000	2076000	2055000	2136000	2141000	2122000	2091000	2050000	1953000
19	2049000	2117000	2072000	1992000	2070000	2079000	2133000	2141000	2121000	2089000	2045000	1951000
20	2043000	2112000	2070000	1993000	2065000	2085000	2130000	2135000	2121000	2088000	2042000	1954000
21	2040000	2107000	2065000	1992000	2060000	2087000	2128000	2134000	2119000	2090000	2037000	1953000
22	2032000	2100000	2061000	1995000	2057000	2087000	2126000	2128000	2118000	2089000	2032000	1953000
23	2026000	2093000	2061000	1995000	2064000	2086000	2121000	2120000	2119000	2087000	2027000	1951000
24	2026000	2131000	2059000	1996000	2069000	2095000	2116000	2113000	2120000	2086000	2021000	1950000
25	2022000	2176000	2058000	1997000	2069000	2097000	2114000	2110000	2120000	2085000	2016000	1948000
26	2018000	2178000	2055000	1992000	2067000	2088000	2113000	2110000	2118000	2085000	2011000	1947000
27	2018000	2174000	2049000	1989000	2066000	2092000	2112000	2112000	2116000	2085000	2006000	1946000
28	2017000	2166000	2041000	1984000	2063000	2114000	2111000	2112000	2115000	2086000	2002000	1945000
29	2030000	2160000	2036000	1980000	---	2243000	2110000	2108000	2114000	2083000	1996000	1944000
30	2030000	2165000	2035000	1980000	---	2280000	2111000	2107000	2116000	2081000	1992000	1942000
31	2031000	---	2030000	1973000	---	2281000	---	2106000	---	2080000	1991000	---
MAX	2107000	2178000	2170000	2030000	2111000	2281000	2278000	2154000	2122000	2114000	2082000	1990000
MIN	2017000	2046000	2030000	1973000	1996000	2017000	2110000	2106000	2083000	2080000	1991000	1942000
(†)	575.19	578.40	574.91	573.77	575.72	581.15	577.00	576.86	577.07	576.19	573.87	572.55
(‡)	-66700	+126500	-137200	-43300	+74500	+218900	-168800	-5500	+8300	-34600	-89000	-49400

CAL YR 1974 MAX 2431900 MIN 1954100 ‡ -76600
WTR YR 1975 MAX 2281000 MIN 1942000 ‡ -166300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--Continued

CONTENTS, IN ACRE-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	1942000	1881000	1839000	1876000	1875000	1934000	2061000	2072000	2078000	2115000	2087000	2019000
2	1940000	1880000	1835000	1881000	1874000	1933000	2063000	2072000	2080000	2114000	2086000	2017000
3	1938000	1882000	1834000	1883000	1873000	1933000	2064000	2071000	2082000	2115000	2084000	2016000
4	1936000	1880000	1833000	1882000	1871000	1932000	2066000	2070000	2083000	2116000	2082000	2017000
5	1936000	1880000	1832000	1881000	1871000	1935000	2066000	2070000	2083000	2117000	2081000	2015000
6	1934000	1880000	1836000	1880000	1874000	1933000	2067000	2072000	2083000	2117000	2081000	2012000
7	1933000	1879000	1840000	1879000	1874000	1933000	2068000	2072000	2085000	2118000	2079000	2010000
8	1933000	1877000	1848000	1877000	1874000	1937000	2068000	2072000	2086000	2117000	2076000	2007000
9	1932000	1877000	1850000	1872000	1874000	1977000	2067000	2072000	2086000	2116000	2074000	2005000
10	1928000	1877000	1848000	1868000	1875000	2002000	2067000	2072000	2085000	2116000	2072000	2002000
11	1924000	1874000	1847000	1870000	1874000	2011000	2067000	2072000	2084000	2115000	2071000	1999000
12	1919000	1873000	1846000	1870000	1874000	2017000	2068000	2072000	2083000	2115000	2068000	1995000
13	1916000	1871000	1847000	1869000	1874000	2022000	2067000	2077000	2083000	2113000	2064000	1990000
14	1910000	1861000	1846000	1870000	1874000	2026000	2068000	2078000	2081000	2110000	2060000	1987000
15	1908000	1858000	1848000	1867000	1873000	2028000	2068000	2081000	2080000	2110000	2056000	1984000
16	1903000	1857000	1848000	1866000	1872000	2030000	2067000	2084000	2082000	2109000	2053000	1981000
17	1900000	1857000	1844000	1867000	1872000	2032000	2067000	2086000	2081000	2109000	2052000	1978000
18	1898000	1856000	1838000	1866000	1910000	2033000	2067000	2084000	2082000	2106000	2045000	1977000
19	1897000	1856000	1832000	1865000	1899000	2035000	2069000	2083000	2087000	2105000	2042000	1977000
20	1896000	1862000	1831000	1867000	1915000	2036000	2069000	2083000	2087000	2103000	2038000	1978000
21	1894000	1861000	1831000	1866000	1921000	2040000	2070000	2083000	2087000	2102000	2035000	1976000
22	1893000	1857000	1825000	1866000	1926000	2040000	2069000	2080000	2086000	2100000	2031000	1973000
23	1892000	1852000	1822000	1865000	1927000	2041000	2071000	2081000	2085000	2099000	2028000	1969000
24	1890000	1847000	1821000	1865000	1928000	2041000	2072000	2081000	2085000	2097000	2024000	1965000
25	1892000	1846000	1824000	1868000	1930000	2042000	2076000	2081000	2096000	2095000	2022000	1962000
26	1890000	1842000	1826000	1870000	1930000	2042000	2076000	2080000	2105000	2094000	2018000	1958000
27	1889000	1841000	1825000	1871000	1931000	2043000	2074000	2079000	2111000	2089000	2016000	1959000
28	1887000	1837000	1826000	1872000	1933000	2043000	2072000	2077000	2113000	2088000	2018000	1954000
29	1887000	1836000	1845000	1873000	1933000	2052000	2072000	2075000	2114000	2086000	2016000	1951000
30	1886000	1840000	1862000	1873000	---	2057000	2072000	2075000	2115000	2089000	2020000	1947000
31	1884000	---	1871000	1874000	---	2059000	---	2078000	---	2088000	2018000	---
MAX	1942000	1882000	1871000	1883000	1933000	2059000	2076000	2086000	2115000	2118000	2087000	2019000
MIN	1884000	1836000	1821000	1865000	1871000	1932000	2061000	2070000	2078000	2086000	2016000	1947000
(†)	570.90	569.75	570.72	570.72	572.35	575.70	575.99	576.13	577.09	576.37	574.61	572.57
(‡)	-60400	-41200	+34700	0	+59500	+126800	+11200	+5500	+37700	-28300	-68100	-76700

CAL YR 1975 MAX 2281000 MIN 1821000 ‡ -155800
WTR YR 1976 MAX 2118000 MIN 1821000 ‡ +700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to current year. August 1973 to July 1974 in reports of Corps of Engineers, Vicksburg, Miss.

COOPERATION.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT							
14...	810	810	.0	68	7.1	21.0	8.2
14...	810	810	7.0	66	7.1	21.0	8.2
14...	810	810	13	67	7.1	20.5	8.1
14...	810	810	20	73	7.1	20.0	7.6
14...	810	810	26	74	7.2	20.0	7.1
14...	810	810	33	76	7.2	19.5	6.3
14...	810	810	39	75	7.3	17.0	3.5
14...	810	810	46	83	6.9	13.0	3.7
14...	810	810	52	88	6.8	11.5	4.1
14...	810	810	59	86	6.8	11.0	4.2
14...	810	810	66	84	6.7	10.0	4.8
14...	810	810	72	83	6.8	9.5	5.5
14...	810	810	79	83	6.8	9.0	5.2
14...	810	810	85	83	6.8	8.5	5.1
14...	810	810	92	85	6.8	8.5	4.9
14...	810	810	98	88	6.8	8.5	4.7
14...	810	810	105	90	6.8	8.5	4.7
14...	810	810	112	91	6.7	8.5	4.6
14...	810	810	118	92	6.7	8.5	4.3
14...	810	810	125	94	6.6	8.5	4.2
14...	810	810	131	94	6.6	8.5	4.2
14...	810	810	138	95	6.6	8.5	4.2
14...	810	810	144	95	6.6	8.5	4.1
14...	810	810	151	98	6.6	8.5	4.1
14...	810	810	157	99	6.6	8.5	4.1
14...	810	810	164	100	6.6	8.5	3.1
14...	810	810	171	101	6.6	8.5	3.2
NOV							
17...	810	810	.0	66	6.9	16.0	7.3
17...	810	810	7.0	66	6.8	16.0	7.2
17...	810	810	13	68	6.8	16.0	7.1
17...	810	810	20	68	6.8	16.0	7.1
17...	810	810	26	71	6.8	16.0	7.1
17...	810	810	33	71	6.8	15.5	7.0
17...	810	810	39	74	6.8	15.0	7.0
17...	810	810	46	77	6.8	12.5	6.9
17...	810	810	52	74	6.7	11.0	3.3
17...	810	810	59	75	6.7	10.5	3.1
17...	810	810	66	74	6.7	10.0	2.8
17...	810	810	72	76	6.7	9.5	4.0
17...	810	810	79	80	6.5	9.0	4.1
17...	810	810	85	77	6.7	9.0	4.2
17...	810	810	92	77	6.5	8.5	4.3
17...	810	810	98	77	6.6	8.0	4.1
17...	810	810	105	79	6.6	8.0	3.9
17...	810	810	112	81	6.6	8.0	3.8
17...	810	810	118	85	6.6	8.0	3.4
17...	810	810	125	85	6.6	8.0	2.7
17...	810	810	131	85	6.6	8.0	2.6
17...	810	810	138	89	6.5	8.0	2.6
17...	810	810	144	101	6.5	8.0	2.7
17...	810	810	151	103	6.5	8.0	2.7
17...	810	810	157	107	6.5	8.0	2.7
17...	810	810	164	127	6.5	8.0	2.6
JAN							
05...	810	810	.0	62	6.8	9.0	8.6
05...	810	810	7.0	64	6.8	9.0	7.9
05...	810	810	13	64	6.8	9.0	7.6
05...	810	810	20	67	6.8	9.0	7.3
05...	810	810	26	67	6.8	9.0	7.2
05...	810	810	33	72	6.8	9.0	7.0
05...	810	810	39	76	6.8	9.0	6.9
05...	810	810	46	77	6.8	9.0	6.9
05...	810	810	52	79	6.8	9.0	6.8
05...	810	810	59	79	6.8	9.0	6.8
05...	810	810	66	82	6.6	9.0	6.8
05...	810	810	72	82	6.6	9.0	6.7
05...	810	810	79	85	6.6	9.0	6.8
05...	810	810	85	88	6.6	9.0	6.9
05...	810	810	92	86	6.6	9.0	6.9
05...	810	810	98	85	6.6	9.0	6.8
05...	810	810	105	89	6.6	9.0	6.8
05...	810	810	112	89	6.6	9.0	6.8
05...	810	810	118	91	6.5	8.5	5.6
05...	810	810	125	92	6.5	8.5	5.3
05...	810	810	131	94	6.5	8.5	2.3
05...	810	810	138	92	6.5	8.5	2.1
05...	810	810	144	94	6.5	8.0	1.9
05...	810	810	151	--	--	8.0	1.9
FEB							
23...	810	810	.0	64	7.2	11.0	7.9

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)
FEB							
23...	810	810	7.0	67	7.3	10.5	8.0
23...	810	810	13	69	7.3	10.0	8.1
23...	810	810	20	70	7.3	10.0	8.0
23...	810	810	26	74	7.3	10.0	7.9
23...	810	810	33	76	7.2	10.0	7.8
23...	810	810	39	77	7.2	10.0	7.8
23...	810	810	46	77	7.2	10.0	7.8
23...	810	810	52	79	7.2	10.0	7.8
23...	810	810	59	81	7.2	9.5	7.6
23...	810	810	66	81	7.1	9.5	7.8
23...	810	810	72	81	7.1	9.0	8.2
23...	810	810	79	84	7.1	8.0	7.7
23...	810	810	85	85	7.0	8.0	7.3
23...	810	810	92	86	7.0	8.0	7.1
23...	810	810	98	88	7.0	8.0	6.9
23...	810	810	105	93	7.0	8.0	6.8
23...	810	810	112	94	7.0	8.0	6.7
23...	810	810	118	94	7.0	8.0	6.7
23...	810	810	125	98	7.0	7.5	6.6
23...	810	810	131	100	7.0	7.5	6.4
23...	810	810	138	104	7.0	7.5	6.2
23...	810	810	144	106	7.1	7.5	6.1
MAR							
23...	810	810	.0	--	7.3	12.5	10.8
23...	810	810	7.0	--	7.2	12.2	10.4
23...	810	810	13	--	7.2	11.9	10.4
23...	810	810	20	--	7.2	11.8	10.2
23...	810	810	26	--	7.2	11.5	10.2
23...	810	810	33	--	7.1	11.2	10.0
23...	810	810	39	--	7.1	11.1	9.9
23...	810	810	46	--	7.1	10.7	9.9
23...	810	810	52	--	7.0	10.0	9.8
23...	810	810	59	--	7.0	9.1	9.6
23...	810	810	66	--	7.0	8.1	9.0
23...	810	810	72	--	7.0	7.9	8.7
23...	810	810	79	--	6.9	7.5	8.4
23...	810	810	85	--	6.9	7.3	8.1
23...	810	810	92	--	6.9	7.2	8.2
23...	810	810	98	--	6.9	7.2	7.9
23...	810	810	105	--	6.9	7.2	7.9
23...	810	810	112	--	6.8	7.1	7.8
23...	810	810	118	--	6.8	7.1	7.6
23...	810	810	125	--	6.8	7.1	7.5
23...	810	810	131	--	6.8	7.1	7.3
23...	810	810	144	--	6.8	7.1	7.2
23...	810	810	151	--	6.8	7.1	6.9
23...	810	810	157	--	6.8	7.1	7.0
23...	810	810	164	--	6.8	7.1	6.9
23...	810	810	171	--	6.8	7.1	6.8
23...	810	810	177	--	6.8	7.1	6.8
MAY							
04...	810	810	.0	66	7.6	17.5	10.7
04...	810	810	7.0	66	7.5	17.5	10.8
04...	810	810	13	66	7.5	17.5	10.8
04...	810	810	20	67	7.4	17.2	10.4
04...	810	810	26	68	7.3	17.0	10.4
04...	810	810	33	67	7.2	16.5	10.2
04...	810	810	39	67	7.0	15.2	10.2
04...	810	810	46	68	6.9	12.5	9.8
04...	810	810	52	68	6.8	12.0	9.4
04...	810	810	59	69	6.7	11.0	9.4
04...	810	810	66	70	6.6	9.5	8.6
04...	810	810	72	74	6.6	9.2	8.8
04...	810	810	79	74	6.6	8.5	8.2
04...	810	810	85	77	6.6	8.5	8.4
04...	810	810	92	73	6.6	8.2	7.8
04...	810	810	98	74	6.6	8.2	7.8
04...	810	810	105	75	6.6	8.0	7.6
04...	810	810	112	79	6.6	8.0	7.4
04...	810	810	118	79	6.6	8.0	7.4
04...	810	810	125	79	6.6	8.0	7.4
04...	810	810	131	79	6.6	8.0	7.4
04...	810	810	138	79	6.6	8.0	7.4
04...	810	810	144	81	6.6	8.0	7.4
04...	810	810	151	82	6.6	8.0	7.4
04...	810	810	157	85	6.6	8.0	7.3
JUN							
08...	810	810	.0	60	--	24.0	9.4
08...	810	810	7.0	61	--	23.5	9.4
08...	810	810	13	65	--	21.0	9.7

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
JUN							
08...	810	810	20	64	--	20.0	9.9
08...	810	810	26	65	--	19.0	9.8
08...	810	810	33	67	--	18.5	9.4
08...	810	810	39	70	--	16.5	9.3
08...	810	810	46	66	--	14.0	9.4
08...	810	810	52	68	--	12.3	9.2
08...	810	810	59	68	--	10.8	8.7
08...	810	810	66	72	--	9.8	8.5
08...	810	810	72	73	--	8.3	8.4
08...	810	810	79	75	--	7.9	8.3
08...	810	810	85	77	--	7.1	8.2
08...	810	810	92	79	--	6.5	8.2
08...	810	810	98	80	--	6.3	8.2
08...	810	810	105	82	--	6.2	7.9
08...	810	810	112	84	--	6.0	7.7
08...	810	810	118	85	--	6.0	7.7
08...	810	810	125	86	--	6.0	7.6
08...	810	810	131	89	--	6.0	7.5
08...	810	810	138	90	--	6.0	7.5
08...	810	810	144	92	--	6.0	7.4
08...	810	810	151	92	--	6.0	7.3
08...	810	810	157	93	--	6.0	7.2
08...	810	810	164	93	--	6.0	7.2
08...	810	810	171	93	--	6.0	7.1
08...	810	810	177	94	--	6.0	7.1
JUL							
13...	810	810	.0	60	7.6	29.0	7.5
13...	810	810	7.0	61	7.6	28.5	7.5
13...	810	810	13	61	7.5	28.0	7.5
13...	810	810	20	62	7.4	27.0	7.9
13...	810	810	26	64	7.3	22.0	8.8
13...	810	810	33	66	6.9	18.2	8.2
13...	810	810	39	65	6.8	15.2	7.5
13...	810	810	46	63	6.8	13.0	7.4
13...	810	810	52	65	6.8	11.5	7.2
13...	810	810	59	66	6.6	10.5	7.1
13...	810	810	66	66	6.6	9.8	7.1
13...	810	810	72	67	6.6	9.0	7.1
13...	810	810	79	68	6.7	8.2	7.2
13...	810	810	85	68	6.6	7.8	7.3
13...	810	810	92	69	6.6	7.5	7.3
13...	810	810	98	69	6.6	7.2	7.1
13...	810	810	105	69	6.7	7.1	6.9
13...	810	810	112	73	6.6	7.1	6.9
13...	810	810	118	77	6.7	7.0	6.5
13...	810	810	125	78	6.6	7.0	6.7
13...	810	810	131	78	6.6	7.0	6.6
13...	810	810	138	80	6.6	7.0	6.5
13...	810	810	144	82	6.6	7.0	6.5
13...	810	810	151	84	6.6	6.9	6.4
13...	810	810	157	86	6.7	6.9	6.3
13...	810	810	164	86	6.7	6.9	6.3
13...	810	810	171	90	6.7	6.9	6.2
13...	810	810	177	90	--	6.9	6.3
AUG							
17...	810	810	.0	65	7.4	28.0	7.5
17...	810	810	7.0	66	7.4	27.5	7.7
17...	810	810	13	67	7.4	27.0	7.9
17...	810	810	20	69	7.4	24.0	7.9
17...	810	810	26	68	7.3	23.0	8.7
17...	810	810	33	70	6.9	18.0	7.0
17...	810	810	39	70	6.7	16.0	6.3
17...	810	810	46	72	6.7	14.0	6.3
17...	810	810	52	74	6.7	12.0	6.2
17...	810	810	59	75	6.7	9.0	6.3
17...	810	810	66	75	6.7	8.8	6.4
17...	810	810	72	77	6.6	8.5	6.2
17...	810	810	79	77	6.7	8.0	6.8
17...	810	810	85	77	6.7	8.0	6.7
17...	810	810	92	80	6.7	7.0	6.3
17...	810	810	98	80	6.7	7.0	6.2
17...	810	810	105	82	6.6	7.0	6.0
17...	810	810	112	82	6.6	7.0	5.5
17...	810	810	118	82	6.6	7.0	5.6
17...	810	810	125	86	6.6	7.0	5.5
17...	810	810	131	86	6.5	7.0	5.1
17...	810	810	138	90	6.5	7.0	5.3
17...	810	810	144	92	6.5	7.0	5.4
17...	810	810	151	93	6.5	7.0	5.3
17...	810	810	157	93	6.5	7.0	5.3
17...	810	810	164	93	6.5	7.0	5.4
17...	810	810	171	96	6.5	7.0	5.2
17...	810	810	177	120	--	7.0	.3

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR

LOCATION.--Lat 34°34'18", long 93°11'37" (revised), in SE¼ sec.12, T.2 S., R.21 W., Garland County, on outlet of power tunnel at Blakely Mountain Dam, 2.3 mi (3.7 km) upstream from Glazypeau Creek, 10.0 mi (16.1 km) northwest of Hot Springs, and at mile 486.9 (783.4 km).

DRAINAGE AREA.--1,105 mi^2 (2,862 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1975 in reports of Geological Survey. October 1950 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Oct. 1, 1950, to Mar. 17, 1952, water-stage recorder at site 2,000 ft (610 m) downstream at datum 395.92 ft (120.676 m) above mean sea level. Mar. 18, 1952, to Aug. 29, 1955, water-stage recorder at site 1,700 ft (520 m) downstream at present datum.

REMARKS.--Discharge computed from flowmeter and estimated leakage. Flow completely regulated by Lake Ouachita since 1952 (see station 07357500).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--25 years, 1,530 ft^3/s (43.3 m^3/s), 1,108,000 acre-ft/yr (1,370 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge since storage began, 9,550 ft^3/s (270 m^3/s) June 13, 1968; minimum daily, 15 ft^3/s (0.42 m^3/s) Sept. 1, 1973 (estimated leakage).

EXTREMES FOR WATER YEAR 1975.--Maximum daily discharge, 6,650 ft^3/s (188 m^3/s) Dec. 4; minimum daily, 20 ft^3/s (0.57 m^3/s) at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1690	1420	4200	1410	433	1560	6460	1480	20	901	34	1180
2	1190	942	4800	3470	20	1240	6460	2510	2360	887	540	2950
3	905	205	5290	3790	4280	4130	6460	20	3110	1030	55	2440
4	996	2210	6650	4980	4680	3900	6470	4080	3700	691	117	2090
5	1050	1490	6580	169	4090	3850	6460	5800	2590	940	508	75
6	897	1220	5990	3980	4620	3250	6460	5900	3860	948	796	545
7	2520	1270	6270	4010	6110	3490	6500	4350	1400	620	726	392
8	2590	1760	6240	2100	2550	3380	6510	4290	151	807	895	1530
9	1800	1020	6510	2600	3080	2340	6500	3550	1070	674	20	1420
10	2360	467	6420	1810	3510	4740	6520	2640	3140	503	628	1410
11	2810	4620	5400	682	2670	3870	6520	20	2530	475	1570	1410
12	1560	4330	6530	2830	2410	4150	6530	3200	2250	552	2690	928
13	789	4960	6560	3970	3940	2420	6540	1760	2580	512	1520	20
14	2080	5230	6560	3920	3780	2890	6200	2370	1540	61	2010	92
15	2220	6460	6570	3510	2100	3860	3510	4490	340	470	1800	1100
16	2930	3980	6410	3330	763	1560	3170	2260	2780	765	1580	736
17	1840	1480	4840	3990	3680	2930	2770	1510	2710	612	941	1210
18	3040	3860	3680	20	3950	760	2910	942	1900	887	2240	874
19	3320	3820	1560	741	3480	2070	1970	3760	1190	68	2330	536
20	1010	3820	4360	191	2700	2700	1140	2540	2000	282	2320	549
21	4350	4080	2650	20	2670	3500	1470	4140	583	801	2630	229
22	2980	4380	20	20	3180	2230	2650	4450	20	858	2320	425
23	181	3660	2030	20	3750	2070	3360	4340	73	736	2340	545
24	2080	20	1980	495	4420	3470	3500	2200	711	548	2240	306
25	2270	4530	888	3100	3930	3970	3540	154	844	537	2120	531
26	131	6480	4460	1350	3420	3950	2690	1050	1690	441	2780	345
27	489	6520	4470	3610	3060	3770	3310	1750	859	686	2030	295
28	646	6520	4150	3120	2580	1220	2460	3200	620	1620	2270	433
29	2050	4690	1280	95	---	1950	2530	2360	476	768	2260	769
30	1270	5960	3730	4470	---	6040	2320	2350	872	303	646	608
31	1570	---	2210	2420	---	6360	---	20	---	20	20	---
TOTAL	55614	101404	139288	70223	89856	97620	133890	83486	47969	20003	44976	25973
MEAN	1794	3380	4493	2265	3209	3149	4463	2693	1599	645	1451	866
MAX	4350	6520	6650	4980	6110	6360	6540	5900	3860	1620	2780	2950
MIN	131	20	20	20	20	760	1140	20	20	20	20	20
AC-FT	110300	201100	276300	139300	178200	193600	265600	165600	95150	39680	89210	51520

CAL YR 1974 TOTAL 966313 MEAN 2647 MAX 9440 MIN 20 AC-FT 1917000
WTR YR 1975 TOTAL 910302 MEAN 2494 MAX 6650 MIN 20 AC-FT 1806000

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to July 1975, August 1973 to August 1974 in reports of Corps of Engineers, Vicksburg, Miss.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
15...	9827	9827	60000	50	6.8	29.0	23.0	5	4	5.2
NOV										
19...	9827	9827	20	52	6.9	21.0	16.0	10	1	7.6
DEC										
09...	9827	9827	20	49	7.0	11.0	12.0	10	6	9.0
JAN										
21...	9827	9827	20	54	7.0	17.0	13.0	5	3	11.4
FEB										
18...	9827	9827	20	57	7.3	15.0	14.0	5	5	11.3
MAR										
17...	9827	9827	30000	57	7.4	19.0	16.0	10	1	11.2
APR										
14...	9827	9827	20	65	7.4	21.0	19.0	5	2	10.2
MAY										
19...	9827	9827	20	71	7.6	24.0	21.0	10	<25	10.7
JUN										
16...	9827	9827	20	61	7.5	25.0	28.0	10	<25	9.1
JUL										
27...	9827	9827	20	64	7.3	33.0	31.0	10	6	8.6
AUG										
24...	9827	9827	20	65	7.3	28.0	27.0	5	4	8.7
SEP										
28...	9827	9827	30000	63	7.0	22.0	15.0	--	1	5.1

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
15...	60	1.2	70	<5	--	--	--	--	--	--
NOV										
19...	76	1.5	10	5	--	--	--	--	--	--
DEC										
09...	84	1.4	87	5	<4	16	0	5.0	12	1.0
JAN										
21...	108	2.4	240	<7	--	22	0	6.0	16	1.0
FEB										
18...	109	2.3	81	29	--	--	--	--	--	--
MAR										
17...	112	3.6	<7	<4	--	--	--	--	--	--
APR										
14...	109	2.3	<5	8	--	22	0	8.0	20	<1.0
MAY										
19...	119	4.2	15	4	--	--	--	--	--	--
JUN										
16...	115	3.6	<5	<4	--	--	--	--	--	--
JUL										
27...	115	3.0	220	<220	16	24	2	8.0	20	1.0
AUG										
24...	107	3.1	230	<230	<10	--	--	--	--	--
SEP										
28...	50	--	10	10	--	--	--	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
15...	--	--	--	--	--	--	3.0	4.0	47	3
NOV										
19...	--	--	--	--	--	--	3.0	3.5	46	1
DEC										
09...	2.0	.8	29	0	24	4.6	1.0	3.5	50	2
JAN										
21...	1.8	.1	28	0	23	4.5	<1.0	5.0	34	6
FEB										
18...	--	--	--	--	--	--	2.0	3.5	38	7
MAR										
17...	--	--	--	--	--	--	<1.0	4.0	38	9
APR										
14...	1.9	.1	46	0	38	2.9	<1.0	3.0	32	4
MAY										
19...	--	--	--	--	--	--	2.0	3.5	54	6
JUN										
16...	--	--	--	--	--	--	3.0	4.0	45	2
JUL										
27...	4.2	1.0	27	0	22	2.2	2.0	4.5	39	5
AUG										
24...	--	--	--	--	--	--	1.0	4.5	42	4
SEP										
28...	--	--	--	--	--	--	2.0	3.0	41	4

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
15...	50	.14	<.01	--	<10	0	<10	180	<10	130
NOV										
19...	47	.18	<.01	--	--	--	--	--	--	--
DEC										
09...	52	.36	<.01	<3	<10	0	<10	410	<10	70
JAN										
21...	40	.18	<.01	<3	<10	<3	<10	70	<10	60
FEB										
18...	45	.21	<.01	--	--	--	--	--	--	--
MAR										
17...	47	.10	<.01	--	--	--	--	--	--	--
APR										
14...	36	.17	<.01	<3	<10	<3	<10	60	<10	<27
MAY										
19...	60	<.10	.02	--	--	--	--	--	--	--
JUN										
16...	43	<.10	.02	--	--	--	--	--	--	--
JUL										
27...	44	<.10	<.01	<3	<10	<3	20	110	<10	30
AUG										
24...	46	<.10	<.01	--	--	--	--	--	--	--
SEP										
28...	36	.12	.01	--	--	--	--	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
15...	<10	--	--	--	--	--	--	--	--
NOV									
19...	--	--	--	--	--	--	--	--	--
DEC									
09...	10	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
21...	<10	--	--	--	--	--	--	--	--
FEB									
18...	--	--	--	--	--	--	--	--	--
MAR									
17...	--	--	--	--	--	--	--	--	--
APR									
14...	<10	--	--	--	--	--	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
JUN									
16...	--	--	--	--	--	--	--	--	--
JUL									
27...	<10	--	--	--	--	--	--	--	--
AUG									
24...	--	--	--	--	--	--	--	--	--
SEP									
28...	--	--	--	--	--	--	--	--	--

07358500 LAKE HAMILTON NEAR HOT SPRINGS, AR

LOCATION.--Lat 34°26'36", long 93°01'33", in sec.27, T.3 S., R.19 W., Garland County, at Carpenter Dam on Ouachita River, 1.5 mi (2.5 km) downstream from Hot Springs Creek, and 4.5 mi (7.2 km) southeast of Hot Springs.

DRAINAGE AREA.--1,441 mi^2 (3,832 km^2).

PERIOD OF RECORD.--December 1930 to current year. Monthend contents prior to October 1950, published in WSP 1311; October 1950 to September 1960 published in WSP 1731; October 1960 to September 1965 published in WSP 1920.

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

REMARKS.--Lake is formed by concrete-gravity dam. Storage began Dec. 17, 1930. Capacity at top of taintor gates, 190,100 acre-ft (234 hm^3), elevation, 400 ft (121.9 m); at spillway crest, 70,560 acre-ft (87.0 hm^3), elevation, 375 ft (114.3 m). Contents below spillway crest represents dead storage. Lake is used for power development. Figures given herein represent total contents.

COOPERATION.--Records furnished by Arkansas Power and Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 208,100 acre-ft (257 hm^3) Mar. 31, 1945, elevation, 402.28 ft (122.615 m); minimum since top of gates was first reached, 70,600 acre-ft (87.0 hm^3) Feb. 13, 14, 16, 1936, elevation, 375.01 ft (114.303 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 183,400 acre-ft (226 hm^3) Sept. 30, elevation, 399.03 ft (121.624 m); minimum observed, 157,400 acre-ft (194 hm^3) Nov. 30, elevation, 394.96 ft (120.384 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	398.99	183,100	
OCT. 31	398.97	183,000	-100
NOV. 30	394.96	157,400	-25,600
DEC. 31	395.14	158,500	+1,100
CALENDAR YEAR 1975	-	-	-1,800
JAN. 31	395.08	158,200	-300
FEB. 29	395.05	158,000	-200
MAR. 31	398.05	176,900	+18,900
APR. 30	398.04	176,800	-100
MAY 31	399.00	183,200	+6,400
JUNE 30	399.00	183,200	0
JULY 31	398.90	182,500	-700
AUG. 31	398.99	183,100	+600
SEPT. 30	399.03	183,400	+300
WATER YEAR 1976	-	-	+300

† Elevation at 2400 hours.

07358501 OUACHITA RIVER AT CARPENTER DAM, NEAR HOT SPRINGS, AR

LOCATION.--Lat 34°26'36", long 93°01'29", in sec.27, T.3 S., R.19 W., Garland County, at dam, 1.5 mi (2.5 km) downstream from Hot Springs Creek, and 4.5 mi (7.2 km) southeast of Hot Springs.

DRAINAGE AREA.--1,441 mi^2 (3,732 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
15...	9827	9827	4910	49	6.8	28.0	18.0	5	3	6.0
NOV										
19...	9827	9827	5760	50	7.1	21.0	19.0	10	4	7.7
DEC										
09...	9827	9827	.00	50	7.2	10.0	15.0	10	3	10.9
JAN										
21...	9827	9827	.00	54	7.5	19.0	16.0	10	4	13.2
FEB										
18...	9827	9827	.00	59	7.4	20.0	16.0	10	5	10.8
MAR										
17...	9827	9827	.00	57	7.4	19.0	17.0	15	5	10.0
APR										
14...	9827	9827	.00	56	7.2	24.0	20.0	10	4	8.7
MAY										
19...	9827	9827	.00	64	7.1	27.0	22.0	10	<25	9.5
JUN										
16...	9827	9827	.00	67	7.0	30.0	26.0	30	25	5.2
JUL										
27...	9827	9827	3560	69	6.9	--	25.0	30	4	4.4
AUG										
24...	9827	9827	5080	65	7.0	29.0	21.0	5	3	4.2
SEP										
28...	9827	9827	2370	68	7.0	22.0	19.0	5	7	5.7

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
15...	63	1.0	<10	<7	--	--	--	--	--	--
NOV										
19...	82	1.4	270	27	--	--	--	--	--	--
DEC										
09...	107	1.2	30	<5	8	22	0	7.0	18	1.0
JAN										
21...	132	2.5	14	<7	--	20	0	6.0	14	1.0
FEB										
18...	108	1.7	310	<7	--	--	--	--	--	--
MAR										
17...	103	1.6	13	32	--	--	--	--	--	--
APR										
14...	95	2.2	<7	8	--	16	0	6.0	14	<1.0
MAY										
19...	108	2.9	470	16	--	--	--	--	--	--
JUN										
16...	63	2.3	680	590	--	--	--	--	--	--
JUL										
27...	52	2.8	--	10	100	28	2	9.0	22	1.0
AUG										
24...	47	2.1	140	20	20	--	--	--	--	--
SEP										
28...	61	--	320	60	--	--	--	--	--	--

07358501 OUACHITA RIVER AT CARPENTER DAM, NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
15...	--	--	--	--	--	--	2.0	4.5	47	0
NOV										
19...	--	--	--	--	--	--	1.0	4.0	46	3
DEC										
09...	2.4	.8	27	0	22	2.7	1.0	4.0	33	3
JAN										
21...	2.5	.1	27	0	22	1.4	<1.0	4.0	36	15
FEB										
18...	--	--	--	--	--	--	4.0	4.5	40	5
MAR										
17...	--	--	--	--	--	--	1.0	4.5	--	--
APR										
14...	2.3	.1	28	0	23	2.8	<1.0	3.5	36	8
MAY										
19...	--	--	--	--	--	--	3.0	3.5	54	14
JUN										
16...	--	--	--	--	--	--	4.0	4.5	58	13
JUL										
27...	3.6	.9	32	0	26	6.4	1.0	4.0	41	4
AUG										
24...	--	--	--	--	--	--	1.0	3.5	43	1
SEP										
28...	--	--	--	--	--	--	1.0	3.5	39	12

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
15...	47	.22	<.01	--	<10	0	<10	51	<10	35
NOV										
19...	49	<.10	<.01	--	--	--	--	--	--	--
DEC										
09...	36	.40	<.01	<3	<10	0	<10	170	<10	52
JAN										
21...	51	.15	.01	<3	<10	<3	<10	130	<10	33
FEB										
18...	45	.21	.02	--	--	--	--	--	--	--
MAR										
17...	--	.13	<.01	--	--	--	--	--	--	--
APR										
14...	44	.19	<.01	<3	<10	<3	<10	250	<10	96
MAY										
19...	68	.20	.01	--	--	--	--	--	--	--
JUN										
16...	71	.38	.03	--	--	--	--	--	--	--
JUL										
27...	45	<.10	.03	<3	<10	<3	10	780	<10	400
AUG										
24...	44	<.10	.01	--	--	--	--	--	--	--
SEP										
28...	51	.12	.02	--	--	--	--	--	--	--

07358501 OUACHITA RIVER AT CARPENTER DAM, NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
15...	<10	--	--	--	--	--	--	--	--
NOV									
19...	--	--	--	--	--	--	--	--	--
DEC									
09...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
21...	<10	--	--	--	--	--	--	--	--
FEB									
18...	--	--	--	--	--	--	--	--	--
MAR									
17...	--	--	--	--	--	--	--	--	--
APR									
14...	<10	--	--	--	--	--	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
JUN									
16...	--	--	--	--	--	--	--	--	--
JUL									
27...	<10	--	--	--	--	--	--	--	--
AUG									
24...	--	--	--	--	--	--	--	--	--
SEP									
28...	--	--	--	--	--	--	--	--	--

07359000 LAKE CATHERINE AT JONES MILL, AR

LOCATION.--Lat 34°25'35", long 92°53'40", in SW¼NW¼ sec.36, T.3 S., R.18 W., Hot Spring County, at Remmel Dam on Ouachita River at Jones Mill.

DRAINAGE AREA.--1,516 mi^2 (3,926 km^2).

PERIOD OF RECORD.--October 1924 to current year. Monthend contents prior to October 1950, published in WSP 1311; October 1950 to September 1960 published in WSP 1731; October 1960 to September 1965 published in WSP 1920.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Jan. 10, 1956, nonrecording gage at present site and datum.

REMARKS.--Lake is formed by concrete-gravity dam. Storage began Oct. 11, 1924. Capacity at top of taintor gates, 35,250 acre-ft (43.5 hm^3), elevation, 305 ft (93.0 m); at spillway crest, 13,950 acre-ft (17.2 hm^3), elevation, 290 ft (88.4 m). Contents below spillway crest represents dead storage. Lake is used for power development. Figures given herein represent total contents.

COOPERATION.--Records furnished by Arkansas Power and Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 591,600 acre-ft (72.9 hm^3) Apr. 21, 1927, elevation, 315.75 ft (96.241 m); minimum since top of gates was first reached, 16,370 acre-ft (20.2 hm^3) Feb. 7, 1925, elevation, 292.34 ft (89.105 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 34,400 acre-ft (42.4 hm^3) Feb. 29, elevation, 304.55 ft (92.827 m); minimum observed, 25,000 acre-ft (30.8 hm^3) Jan. 31, elevation, 299.04 ft (91.147 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	303.42	32,300	
OCT. 31	303.84	33,000	+700
NOV. 30	303.72	32,800	-200
DEC. 31	299.17	25,200	-7,600
CALENDAR YEAR 1975	-	-	+300
JAN. 31	299.04	25,000	-200
FEB. 29	304.55	34,400	+9,400
MAR. 31	304.26	33,800	-600
APR. 30	304.06	33,500	-300
MAY 31	304.11	33,600	+100
JUNE 30	304.06	33,500	-100
JULY 31	304.21	33,700	+200
AUG. 31	304.06	33,500	-200
SEPT. 30	304.26	33,800	+300
WATER YEAR 1976	-	-	+1,500

† Elevation at 2400.

07359500 OUACHITA RIVER NEAR MALVERN, AR

LOCATION.--Lat 34°23'10", long 92°50'20", in NW¼ sec.16, T.4 S., R.17 W., Hot Spring County, near right bank on downstream side of bridge on State Highway 84, 2.0 mi (3.2 km) northwest of Malvern, 5.8 mi (9.3 km) downstream from Remmel Dam, and at mile 450.1 (724.2 km).

DRAINAGE AREA.--1,562 mi^2 (4,046 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1903 to April 1905, June 1922 to September 1925 (fragmentary), October 1925 to April 1927, January 1928 to current year. Published as "at Remmel Dam, near Malvern" January 1925 to March 1937.

REVISED RECORDS.--WSP 587: 1923. WSP 857: 1923(M). WSP 977: 1942. WSP 1211: Drainage area. WSP 1391: 1903-04.

GAGE.--Water-stage recorder. Datum of gage is 228.05 ft (69.510 m) above mean sea level. March 1903 to April 1905, nonrecording gage at present site at datum 2.0 ft (0.6 m) higher. June 1922 to September 1924, nonrecording gage at present site and datum. January 1925 to March 1937, water-stage recorder at Remmel Dam, 5.8 mi (9.3 km) upstream at datum 20.11 ft (6.130 m) higher.

REMARKS.--Records good. Flow regulated by Lake Catherine, 5.8 mi (9.3 km) upstream, since 1925 (see station 07359000), by Lake Hamilton since 1932 (see station 07358500), and by Lake Ouachita since July 1952 (see station 07357500).

AVERAGE DISCHARGE.--49 years (1925-26, 1928-76), 2,376 ft^3/s (67.3 m^3/s), 1,721,000 acre-ft/yr (2,120 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140,000 ft^3/s (3,960 m^3/s) May 15, 1923, gage height, 30.3 ft (9.24 m); minimum, 35 ft^3/s (0.99 m^3/s) Sept. 18, 1955; minimum daily observed, 40 ft^3/s (1.13 m^3/s) Dec. 18-20, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,700 ft^3/s (473 m^3/s) June 25, gage height, 11.94 ft (3.639 m); minimum, 45 ft^3/s (1.27 m^3/s) Oct. 18, gage height, 0.49 ft (0.149 m); minimum daily, 251 ft^3/s (7.11 m^3/s) May 4.

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	866	410	2070	572	431	487	858	420	644	459	404	773
2	470	420	1550	1910	990	481	795	384	597	460	410	1130
3	604	2000	1060	842	1280	453	597	678	516	460	404	1720
4	431	464	1530	1410	505	442	553	251	453	3000	410	898
5	369	426	735	2170	1490	750	499	553	420	1000	404	1170
6	470	511	1080	1110	565	866	442	1520	1590	1300	410	1260
7	321	1020	735	1850	999	374	459	464	1160	500	394	999
8	453	534	923	2820	481	6400	442	271	834	750	420	1470
9	1060	459	1050	2530	481	10100	505	426	898	450	399	1300
10	2250	1280	1710	834	565	956	470	420	604	450	591	923
11	2030	437	2110	415	516	1240	415	547	442	450	706	1450
12	1790	882	721	584	448	866	426	923	487	800	1570	1570
13	2130	2620	906	850	426	565	476	5980	728	1100	1600	1600
14	1760	3320	657	714	464	572	442	1640	487	900	1690	1640
15	1880	728	1010	758	442	597	499	3020	420	450	1610	1720
16	2420	426	1940	858	448	981	553	1170	1910	450	981	1680
17	547	1240	2730	364	2790	437	349	1600	437	440	1870	1600
18	389	882	3440	448	4990	453	481	1120	2900	430	1340	487
19	410	1880	2720	923	2510	516	1510	287	2400	500	1380	499
20	597	1910	565	834	999	1010	1770	811	410	550	1540	1710
21	330	2000	1930	644	1710	541	1890	956	650	480	1140	1680
22	431	2670	2040	459	931	499	948	1290	459	450	1390	1750
23	420	1230	1110	657	1150	493	522	1220	442	699	1510	1750
24	591	3020	898	431	1990	721	1520	2570	1070	685	1210	354
25	534	2370	990	2070	842	470	758	2030	11500	553	999	1390
26	481	3300	981	728	788	516	842	541	2620	1200	1520	788
27	591	2220	1060	1350	630	448	811	2510	1100	1120	1190	1700
28	630	2110	657	964	442	765	964	990	1190	404	1280	1880
29	448	1760	1950	511	481	1780	882	511	826	464	448	359
30	773	1460	2160	584	---	2310	404	374	522	511	547	1600
31	1700	---	410	470	---	1310	---	780	---	415	505	---
TOTAL	28176	43989	43428	31664	30784	38399	22082	36257	38716	21880	30272	38850
MEAN	909	1466	1401	1021	1062	1239	736	1170	1291	706	977	1295
MAX	2420	3320	3440	2820	4990	10100	1890	5980	11500	3000	1870	1880
MIN	321	410	410	364	426	374	349	251	410	404	394	354
AC-FT	55890	87250	86140	62810	61060	76160	43800	71920	76790	43400	60040	77060

CAL YR 1975 TOTAL 1023455 MEAN 2804 MAX 14800 MIN 321 AC-FT 2030000
WTR YR 1976 TOTAL 404497 MEAN 1105 MAX 11500 MIN 251 AC-FT 802300

07359500 OUACHITA RIVER NEAR MALVERN, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-50, October 1970 to current year.

REMARKS.--Records of additional water temperatures are published in Analyses of Samples Collected at Partial-Record Water-Quality Stations of this report.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
14...	9827	9827	129	75	6.9	25.0	20.0	10	3	7.6
NOV										
04...	1028	1028	141	--	--	--	17.5	--	--	--
18...	9827	9827	72	69	7.0	20.0	15.0	5	3	9.0
DEC										
09...	9827	9827	780	85	--	8.0	10.0	10	4	9.5
12...	1028	1028	120	--	--	--	12.0	--	--	--
JAN										
21...	9827	9827	1760	126	7.3	9.0	10.0	10	6	11.1
26...	1028	1028	158	--	--	5.0	10.0	--	--	--
FEB										
18...	9827	9827	7240	198	7.3	17.0	14.0	10	10	10.5
MAR										
18...	9827	9827	118	98	7.2	18.0	15.0	10	4	9.8
APR										
20...	9827	9827	834	282	7.1	27.0	23.0	10	8	7.1
27...	1028	1028	106	--	--	21.0	17.5	--	--	--
MAY										
19...	9827	9827	90	193	7.1	24.0	22.0	10	4	9.3
JUN										
04...	1028	1028	79	--	--	26.5	21.0	--	--	--
16...	9827	9827	--	199	6.9	27.0	25.0	15	<25	5.3
JUL										
21...	9827	9827	--	224	6.9	30.0	29.0	20	2	5.9
22...	1028	1028	62	--	--	43.5	30.0	--	--	--
AUG										
18...	9827	9827	129	161	7.6	25.0	26.0	40	3	6.1
28...	1028	1028	168	--	--	33.0	27.0	--	--	--
SEP										
21...	9827	9827	3100	347	7.1	29.0	26.0	10	4	6.8

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
14...	82	.9	30	<5	<5	--	--	--	--	--
NOV										
04...	--	--	--	--	--	--	--	--	--	--
18...	88	1.1	<5	<5	<4	20	1	--	--	--
DEC										
09...	84	.9	10	<7	10	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	98	1.6	20	8	<4	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	101	4.3	190	13	35	28	8	8.0	20	2.0
MAR										
18...	96	.8	10	4	--	--	--	--	--	--
APR										
20...	82	1.1	--	8	28	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	106	1.6	12	<4	--	48	31	11	28	5.0
JUN										
04...	--	--	--	--	--	--	--	--	--	--
16...	63	2.6	220	70	--	--	--	--	--	--
JUL										
21...	76	1.0	40	<5	<4	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	74	.7	33	<5	8	38	0	14	36	<1.0
28...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	83	1.7	>220	5	4	--	--	--	--	--

07359500 OUACHITA RIVER NEAR MALVERN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
14...	--	--	--	--	--	--	14	11	56	2
NOV										
04...	--	--	--	--	--	--	--	--	--	--
18...	--	--	23	0	19	3.7	7.0	7.5	43	7
DEC										
09...	--	--	--	--	--	--	6.0	13	62	8
12...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	--	--	--	--	--	--	5.0	20	98	31
26...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	20	4.3	24	0	20	1.9	50	26	126	10
MAR										
18...	--	--	--	--	--	--	13	13	105	35
APR										
20...	--	--	--	--	--	--	12	29	136	25
27...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	5.7	2.0	21	0	17	2.7	7.0	14	92	6
JUN										
04...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	37	32	131	41
JUL										
21...	--	--	--	--	--	--	36	28	162	13
22...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	8.7	2.0	160	0	131	6.4	10	18	87	48
28...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	--	--	--	--	--	--	16	44	181	4

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
14...	58	.46	.01	--	<10	0	<10	75	30	110
NOV										
04...	--	--	--	--	--	--	--	--	--	--
18...	50	.41	<.01	<3	<10	<3	<10	--	10	--
DEC										
09...	70	.27	.08	--	--	--	<10	180	20	80
12...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	129	.44	.02	--	--	--	<10	260	--	130
26...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	136	.42	.24	<3	<10	<3	<10	540	40	320
MAR										
18...	70	.68	<.01	--	--	--	<10	130	--	75
APR										
20...	161	.60	.06	--	--	--	20	200	--	210
27...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	98	.48	.29	<3	<10	<3	<10	110	40	340
JUN										
04...	--	--	--	--	--	--	--	--	--	--
16...	172	.74	2.3	--	--	--	20	320	--	440
JUL										
21...	149	.96	.02	--	--	--	<10	32	--	190
22...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	135	.71	.03	--	--	3	<10	59	40	790
28...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	185	.57	.01	--	<10	--	20	180	--	350

07359500 OUACHITA RIVER NEAR MALVERN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
14...	<10	--	--	--	--	--	--	--	--
NOV									
04...	--	--	--	--	--	--	--	--	--
18...	<10	--	--	--	--	--	--	--	--
DEC									
09...	20	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
JAN									
21...	40	.00	.00	.00	.00	.00	.00	.00	<1
26...	--	--	--	--	--	--	--	--	--
FEB									
18...	10	--	--	--	--	--	--	--	--
MAR									
18...	10	--	--	--	--	--	--	--	--
APR									
20...	80	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
MAY									
19...	30	--	--	--	--	--	--	--	--
JUN									
04...	--	--	--	--	--	--	--	--	--
16...	40	--	--	--	--	--	--	--	--
JUL									
21...	<10	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
AUG									
18...	<10	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
SEP									
21...	50	--	--	--	--	--	--	--	--

07359580 OUACHITA RIVER NEAR DONALDSON, AR

LOCATION.--Lat 34°14'16", long 92°57'32", in NE¼ sec.5 T.5 S., R.18 W., Hot Spring County, at bridge on U.S. Highway 67, 2.0 mi (3.2 km) west of Donaldson, 3.6 mi (5.8 km) downstream from Black Branch.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER-ATURE (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)
OCT												
14...	9827	9827	75	7.0	24.0	19.0	5	6	6.4	68	.8	420
NOV												
18...	9827	9827	63	7.0	16.0	14.0	5	4	8.3	80	.4	95
DEC												
09...	9827	9827	81	7.1	7.0	10.0	10	4	9.7	86	.7	160
FEB												
18...	9827	9827	124	7.0	11.0	14.0	50	30	8.4	81	1.2	1400
MAR												
18...	9827	9827	71	7.0	15.0	14.0	40	15	9.4	90	1.0	80
APR												
20...	9827	9827	485	6.6	28.0	21.0	65	25	6.6	73	.7	<7
MAY												
19...	9827	9827	98	7.2	22.0	21.0	35	20	8.3	92	1.2	13
JUN												
16...	9827	9827	143	6.8	26.0	24.0	40	100	6.9	81	2.0	--
JUL												
21...	9827	9827	196	7.0	30.0	29.0	20	7	6.9	88	1.3	--
AUG												
18...	9827	9827	125	7.2	28.0	26.0	20	25	6.8	83	.5	360
SEP												
21...	9827	9827	168	7.2	26.0	25.0	10	7	8.8	105	1.3	440

DATE	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT												
14...	15	70	--	--	--	--	--	--	--	--	--	--
NOV												
18...	5	20	24	5	7.0	18	1.0	4.1	1.3	23	0	19
DEC												
09...	33	5	--	--	--	--	--	--	--	--	--	--
FEB												
18...	520	480	32	19	8.0	20	3.0	12	2.9	16	0	13
MAR												
18...	20	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	60	170	--	--	--	--	--	--	--	--	--	--
MAY												
19...	24	20	28	12	9.0	22	1.0	7.5	2.4	20	0	16
JUN												
16...	1700	1800	--	--	--	--	--	--	--	--	--	--
JUL												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
18...	220	40	36	18	10	26	2.0	8.9	2.7	22	0	18
SEP												
21...	230	<10	--	--	--	--	--	--	--	--	--	--

07359580 OUACHITA RIVER NEAR DONALDSON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
14...	--	10	8.5	47	15	62	.43	.02	--	<10	0	<10
NOV												
18...	3.7	6.0	7.0	46	9	55	.22	.02	<3	<10	0	<10
DEC												
09...	--	6.0	12	60	9	69	.15	<.01	--	--	--	--
FEB												
18...	2.6	22	16	113	17	130	.34	.06	<3	<10	<3	<10
MAR												
18...	--	8.0	10	66	17	83	.38	.05	--	--	--	--
APR												
20...	--	10	120	287	29	316	.13	.05	--	--	--	--
MAY												
19...	2.0	11	12	68	32	100	.65	.09	<3	<10	<3	10
JUN												
16...	--	27	18	102	163	265	1.1	.06	--	--	--	--
JUL												
21...	--	33	26	128	4	132	.88	.06	--	--	--	--
AUG												
18...	2.2	11	16	74	45	119	.55	.08	--	--	<3	10
SEP												
21...	--	21	18	98	23	121	1.0	.03	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
14...	320	30	210	<10	--	--	--	--	--	--	--	--
NOV												
18...	220	<10	100	<10	--	--	--	--	--	--	--	--
DEC												
09...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
FEB												
18...	1300	20	310	<10	--	--	--	--	--	--	--	--
MAR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
19...	1100	170	1500	40	--	--	--	--	--	--	--	--
JUN												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
18...	640	40	240	20	--	--	--	--	--	--	--	--
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--

07359770 CADDO RIVER NEAR AMITY, AR

LOCATION.--Lat 34°17'05", long 93°24'56", in NW¼SE¼ sec.24, T.5 S., R.23 W., Clark County, at bridge on State Highway 84, 2.9 mi (4.7 km) northeast of Amity.

PERIOD OF RECORD.--August 1972 to current year. August 1973 to August 1974 in reports of Corps of Engineers, Vicksburg, Miss.

COOPERATION.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT 15...	9827	9827	50	97	7.8	29.0	27.0	10	4	9.4
NOV 19...	9827	9827	60	100	7.7	22.0	18.0	5	2	10.5
DEC 09...	9827	9827	250	69	7.5	12.0	14.0	25	10	10.7
JAN 21...	9827	9827	175	86	7.5	18.0	10.0	20	10	13.2
FEB 18...	9827	9827	3370	46	7.1	18.0	17.0	50	35	9.8
MAR 17...	9827	9827	380	66	7.5	20.0	16.0	15	7	10.9
APR 14...	9827	9827	150	94	7.7	23.0	24.0	10	3	9.7
MAY 19...	9827	9827	280	73	7.5	27.0	24.0	20	<25	10.4
JUN 16...	9827	9827	80	109	7.9	29.0	30.0	10	<25	8.5
JUL 27...	9827	9827	55	120	7.8	37.0	33.0	10	5	8.4
AUG 24...	9827	9827	20	120	7.9	28.0	27.0	5	4	9.5
SEP 28...	9827	9827	150	119	7.8	23.0	24.0	5	6	9.2

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT 15...	116	2.2	50	7	--	--	--	--	--	--
NOV 19...	110	1.8	120	7	--	--	--	--	--	--
DEC 09...	103	1.4	460	170	240	30	21	10	26	1.0
JAN 21...	117	2.7	140	32	--	32	0	10	26	1.0
FEB 18...	101	2.2	5500	3100	--	--	--	--	--	--
MAR 17...	109	2.5	15	230	--	--	--	--	--	--
APR 14...	114	1.9	<20	24	--	32	0	12	30	<1.0
MAY 19...	122	2.5	<12	250	--	--	--	--	--	--
JUN 16...	112	3.9	500	44	--	--	--	--	--	--
JUL 27...	115	2.0	1600	<1600	250	52	1	18	44	2.0
AUG 24...	117	2.7	410	65	67	--	--	--	--	--
SEP 28...	108	--	620	130	--	--	--	--	--	--

07359770 CADDO RIVER NEAR AMITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT 15...	--	--	--	--	--	--	6.0	5.0	78	4
NOV 19...	--	--	--	--	--	--	3.0	4.0	79	4
DEC 09...	2.3	.8	11	0	9	.6	3.0	4.5	60	5
JAN 21...	2.9	.1	39	0	32	2.0	5.0	4.0	67	6
FEB 18...	--	--	--	--	--	--	3.0	3.5	53	48
MAR 17...	--	--	--	--	--	--	2.0	4.0	--	--
APR 14...	2.4	.1	44	0	36	1.4	<1.0	4.0	53	7
MAY 19...	--	--	--	--	--	--	4.0	3.5	69	0
JUN 16...	--	--	--	--	--	--	2.0	3.5	70	7
JUL 27...	3.5	.9	62	0	51	1.6	2.0	4.0	70	6
AUG 24...	--	--	--	--	--	--	1.0	3.5	66	3
SEP 28...	--	--	--	--	--	--	4.0	4.0	70	10

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT 15...	82	<.10	<.01	--	<10	0	<10	100	<10	25
NOV 19...	83	<.10	<.01	--	--	--	--	--	--	--
DEC 09...	65	.49	.02	<3	<10	0	<10	440	<10	33
JAN 21...	73	.14	.02	<3	<10	<3	<10	450	<10	82
FEB 18...	101	.29	.09	--	--	--	--	--	--	--
MAR 17...	--	.21	<.01	--	--	--	--	--	--	--
APR 14...	60	<.10	<.01	<3	<10	<3	<10	<17	<10	<27
MAY 19...	69	<.10	.05	--	--	--	--	--	--	--
JUN 16...	77	<.10	.02	--	--	--	--	--	--	--
JUL 27...	76	<.10	<.01	<3	20	<3	20	92	<10	27
AUG 24...	69	<.10	.01	--	--	--	--	--	--	--
SEP 28...	80	<.10	.04	--	--	--	--	--	--	--

07359770 CADDO RIVER NEAR AMITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
15...	<10	--	--	--	--	--	--	--	--
NOV									
19...	--	--	--	--	--	--	--	--	--
DEC									
09...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
21...	<10	--	--	--	--	--	--	--	--
FEB									
18...	--	--	--	--	--	--	--	--	--
MAR									
17...	--	--	--	--	--	--	--	--	--
APR									
14...	<10	--	--	--	--	--	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
JUN									
16...	--	--	--	--	--	--	--	--	--
JUL									
27...	<10	--	--	--	--	--	--	--	--
AUG									
24...	--	--	--	--	--	--	--	--	--
SEP									
28...	--	--	--	--	--	--	--	--	--

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR

LOCATION.--Lat 34°12'54", long 93°06'46", in NW¼SW¼ sec.14, T.6 S., R.20 W., Clark County, at DeGray Dam on Caddo River, 2.5 mi (4.0 km) upstream from DeGray Creek, 3.3 mi (5.3 km) northwest of Caddo Valley, 7.4 mi (11.9 km) northwest of Arkadelphia, and at mile 7.9 (12.7 km).
DRAINAGE AREA.--453 mi^2 (1,173 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1969 to current year.
GAGE.--Recording gage. Datum of gage is at mean sea level. Prior to Jan. 29, 1971, nonrecording gage at present site and datum.
REMARKS.--Lake is formed by rolled earthfill dam with an uncontrolled 200 ft (61.0 m) wide spillway located in natural saddle 4,000 ft (1,220 m) east of left abutment of dam. The outlet works has portals to withdraw water from three different elevations. A regulating dam is located downstream from main dam. Storage began Aug. 7, 1969. Capacity between elevations 408.0 ft (124.36 m) and 423.0 ft (128.93 m) is 227,200 acre-ft (280 hm^3), and is reserved for flood-control storage. Capacity between 367.0 ft (111.86 m) and 408.0 ft (124.36 m) is 393,200 acre-ft (485 hm^3), and is reserved for water supply and power generation. Capacity below 367.0 ft (111.86 m) is 261,500 acre-ft (322 hm^3), and is conservation storage. Lake is used for flood-control, power-development, water-supply, pollution-abatement, and recreation purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Spillway crest	423.0 (128.93 m)	881,900 (1,090 hm^3)
Top of power pool	408.0 (124.36 m)	654,700 (807 hm^3)
Top of conservation pool	367.0 (111.86 m)	261,500 (322 hm^3)
Bottom of lowest outlet	345.0 (105.16 m)	148,700 (183 hm^3)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 796,800 acre-ft (982 hm^3) June 11, 1974, elevation, 417.79 ft (127.342 m); minimum since initial filling of conservation pool, 282,100 acre-ft (348 hm^3) June 22, 1970, elevation, 370.11 ft (112.810 m).
EXTREMES FOR WATER YEAR 1975.--Maximum contents, 690,700 acre-ft (852 hm^3) Mar. 30, elevation, 410.62 ft (125.157 m); minimum, 549,100 acre-ft (677 hm^3) Dec. 24, elevation, 399.55 ft (121.783 m).
EXTREMES FOR WATER YEAR 1976.--Maximum contents, 663,000 acre-ft (817 hm^3) Mar. 31, elevation, 408.62 ft (124.547 m); minimum, 537,300 acre-ft (662 hm^3) Dec. 19, elevation, 398.53 ft (121.472 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

398	531.3	407	641.3
401	566.1	411	696.0
404	602.7		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	626700	596700	617700	559000	579700	618600	677800	646000	618200	637700	618800	591900
2	625500	597800	615000	559500	615000	619100	668900	648400	618300	636000	618700	590800
3	624300	598500	610400	561400	624600	619400	659400	666700	617600	635800	619000	588000
4	624300	601700	605600	564000	625800	618600	652400	685800	617400	634100	620100	586100
5	624600	600100	601400	565500	624700	618800	650800	688800	616700	633000	620100	584900
6	624700	600200	601100	568300	622000	616000	651200	681200	616700	631100	620100	585800
7	624600	600100	606000	569200	614400	613500	650900	677000	619500	630900	619600	585800
8	622900	598700	608200	571400	610900	613700	649900	672600	625600	629600	619000	585700
9	621500	597000	609000	573600	613200	612900	646300	673000	634900	627800	618500	585700
10	621300	596600	603800	576200	613200	614300	645200	672700	646800	626800	618300	585700
11	620500	608400	599700	577400	611800	612500	644000	669600	645000	626500	618300	585700
12	620000	610700	595000	579900	612300	612000	642500	669700	647600	626500	617300	586300
13	620000	609000	588700	578500	612700	613000	642400	664300	649200	626300	613700	586300
14	620500	606300	581500	577600	612900	618200	643400	659500	651500	626100	611500	585500
15	620000	602400	575400	578200	613400	621000	642600	656200	652400	625900	610200	585400
16	618200	597100	573600	578300	613200	624300	643000	649700	651700	625800	608700	584400
17	615700	597800	566200	578200	615000	629000	642800	646000	648800	624700	607500	584600
18	612100	597200	560700	578100	615300	633600	641300	645600	648000	624700	607100	584900
19	605700	595000	558900	579300	615900	640600	639600	645300	644200	624500	606600	584200
20	602700	592200	558900	579800	615900	642400	640000	638300	641200	624300	605700	584100
21	600200	589400	554900	578100	616000	643800	639600	634500	636800	624200	604000	584100
22	593400	585900	552000	576800	616000	646100	640000	627800	637600	623700	602400	584100
23	589700	581900	551500	577000	617100	647200	640200	620900	637900	622500	601000	583800
24	589700	588200	550800	576500	617600	648000	639100	613900	638700	621700	599800	583800
25	588000	616000	550500	575700	619700	647700	638000	614000	638900	621100	598600	583700
26	586400	616200	549500	575900	621000	648300	638800	614600	638900	619900	597100	583100
27	586400	615100	550900	575300	620800	649100	640900	615500	638000	619500	596100	583100
28	586000	611700	551000	575900	619000	648700	641700	616200	637500	620100	594600	582400
29	591200	608300	552300	576400	---	680800	642600	616700	637600	619900	593900	582400
30	591300	614000	554100	575900	---	690000	644400	617400	638100	619500	592300	581300
31	589300	---	555900	576700	---	685500	---	618100	---	618800	592000	---
MAX	626700	616200	617700	579900	625800	690000	677800	688800	652400	637700	620100	591900
MIN	586000	581900	549500	559000	579700	612000	638000	613900	616700	618800	592000	581300
(†)	403.26	405.03	400.26	401.91	405.22	409.89	407.23	405.22	406.73	405.27	403.13	402.17
(‡)	-32500	+22300	-58400	+19600	+41200	+62300	-36100	-26200	+19500	-18900	-26900	-11700

CAL YR 1974 MAX 794400 MIN 549500 ‡ -70300
WTR YR 1975 MAX 690000 MIN 549500 ‡ -45800

† ELEVATION, IN FEET, AT 2400, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--Continued

CONTENTS, IN ACRE-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	580200	560100	541900	555600	562500	605100	657300	648800	652400	655600	639800	590700
2	579300	560100	539800	556700	563000	605500	654700	648800	652700	653800	639800	587200
3	579100	561100	539600	558900	563100	605900	655000	649100	652600	653900	639700	586000
4	579100	561500	539700	558900	563300	606100	654400	648400	652800	662100	638900	586000
5	579100	561600	540100	559600	563800	607400	654200	647900	653100	660100	638800	583800
6	579100	561600	541000	559400	566500	607000	654200	647700	654200	655600	638500	581300
7	579100	561400	541700	560400	567300	607100	654200	649300	654000	653000	637500	579600
8	578300	561400	542700	557500	568100	611500	653800	650000	654600	653100	637200	579400
9	577500	561400	543500	555000	568900	640900	653500	650500	651700	651700	637100	579400
10	575700	561700	543300	554200	568900	651700	653200	650900	650400	651700	636200	579400
11	573300	561500	542700	554400	569300	655800	653200	651100	650400	651700	636000	579400
12	573000	561200	542600	554800	569900	650100	653500	651200	650400	652000	634300	579300
13	573200	560500	542800	555400	570200	645300	653600	655600	650400	651300	631700	579100
14	570200	555800	543300	555700	569500	646900	653500	653000	649500	649600	629100	578500
15	568700	555100	544800	555700	569700	648800	652800	655600	649500	649100	626500	577100
16	566600	553800	544600	556400	570000	651300	651900	653400	650800	649100	623400	577000
17	566100	553700	544200	555200	570900	651300	651300	653400	650500	648900	621100	577000
18	566100	553700	542600	555200	581000	652300	652400	653900	652400	648900	618100	577700
19	565900	553000	538200	555400	588200	653200	653200	654400	654400	648800	615500	577500
20	565000	553200	537300	556400	591500	653800	650500	654600	653600	648700	613100	577500
21	565000	552900	537400	556800	594600	653400	648300	654600	654700	648400	610600	578000
22	565000	551600	537700	556800	597300	653500	645300	649300	653800	646700	608700	577500
23	564700	551600	537700	556900	599300	654300	645600	649300	653800	646700	606000	575300
24	564700	549300	537700	556500	600700	653600	645700	649900	652800	645600	603700	574500
25	565600	545900	539200	558200	601900	653200	647100	649500	658100	644600	601600	571200
26	565500	543900	539600	559200	602700	653800	647300	649300	661300	644500	599300	568600
27	564000	542100	539500	560400	603700	654700	647500	649500	654600	641400	597000	568400
28	562900	540500	540000	560800	604100	654700	647700	651500	656400	641400	593100	568100
29	562900	540600	541700	561000	604700	657100	648300	651700	654200	640600	593000	568300
30	562700	541900	551400	561500	---	661000	648300	652300	655500	640400	593100	568400
31	561600	---	554800	562100	---	662800	---	652400	---	640200	591700	---
MAX	580200	561700	554800	562100	604700	662800	657300	655600	661300	662100	639800	590700
MIN	561600	540500	537300	554200	562500	605100	645300	647700	649500	640200	591700	568100
(†)	400.50	398.96	400.05	400.69	404.19	408.44	407.54	407.82	408.07	406.89	403.03	401.20
(‡)	-20000	-18000	+12700	+7500	+42700	+55500	-12100	+3800	+3300	-15800	-49100	-22200

CAL YR 1975 MAX 690000 MIN 537300 ‡ -2500
WTR YR 1976 MAX 662800 MIN 537300 ‡ -11700

† ELEVATION, IN FEET, AT 2400, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1972 to July 1975. August 1973 to July 1974 in reports of Corps of Engineers, Vicksburg, Miss.

COOPERATION.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT							
13...	810	810	.0	73	7.4	21.9	9.6
13...	810	810	7.0	74	7.3	21.1	9.3
13...	810	810	13	76	7.1	21.0	9.2
13...	810	810	20	77	7.4	20.0	8.6
13...	810	810	26	77	6.5	19.4	7.5
13...	810	810	33	76	6.3	14.5	1.0
13...	810	810	39	79	6.3	11.5	3.1
13...	810	810	46	81	6.2	10.0	4.0
13...	810	810	52	81	6.2	9.0	4.7
13...	810	810	59	83	6.2	8.6	4.2
13...	810	810	66	84	6.2	8.2	4.2
13...	810	810	72	85	6.1	8.0	4.0
13...	810	810	79	85	6.1	7.9	3.7
13...	810	810	85	86	6.0	7.8	3.4
13...	810	810	92	89	6.1	7.8	3.3
13...	810	810	98	91	6.0	7.6	3.1
13...	810	810	105	91	6.2	7.6	2.9
13...	810	810	112	92	6.1	7.6	2.5
13...	810	810	118	94	6.2	7.5	2.3
13...	810	810	125	94	6.2	7.5	2.2
13...	810	810	131	95	6.2	7.5	2.2
13...	810	810	138	97	6.2	7.5	1.6
13...	810	810	144	116	6.3	7.5	.4
13...	810	810	151	136	6.3	7.5	.2
13...	810	810	157	154	6.4	7.5	.1
13...	810	810	164	170	6.5	7.5	.1
NOV							
18...	810	810	.0	70	6.8	15.0	8.6
18...	810	810	7.0	70	6.8	15.0	8.6
18...	810	810	13	78	6.8	14.9	8.6
18...	810	810	20	76	6.8	14.5	8.6
18...	810	810	26	77	6.8	14.2	8.3
18...	810	810	33	74	6.7	13.5	8.2
18...	810	810	39	75	6.4	10.6	1.9
18...	810	810	46	76	6.3	9.5	2.3
18...	810	810	52	82	6.5	9.1	2.6
18...	810	810	59	89	6.7	8.8	2.7
18...	810	810	66	90	6.4	8.6	2.7
18...	810	810	72	88	6.3	8.4	2.8
18...	810	810	79	88	6.4	8.3	2.7
18...	810	810	85	89	6.3	8.2	2.5
18...	810	810	92	89	6.3	8.2	2.4
18...	810	810	98	90	6.3	8.1	2.0
18...	810	810	105	90	6.3	8.1	1.8
18...	810	810	112	93	6.3	8.1	1.6
18...	810	810	118	93	6.3	8.0	1.5
18...	810	810	125	94	6.3	8.0	1.4
18...	810	810	131	96	6.3	8.2	.9
18...	810	810	138	115	6.3	8.2	.6
18...	810	810	144	136	6.3	8.2	.5
18...	810	810	151	148	6.5	8.2	.2
18...	810	810	157	162	6.6	8.2	.1
18...	810	810	164	172	6.7	8.2	.1
JAN							
12...	810	810	.0	82	6.6	5.4	7.2
12...	810	810	7.0	84	6.5	5.2	6.5
12...	810	810	13	77	6.5	5.2	6.4
12...	810	810	20	78	6.5	5.2	6.3
12...	810	810	26	77	6.5	5.2	6.2
12...	810	810	33	75	6.5	5.2	6.1
12...	810	810	39	79	6.5	5.2	6.1
12...	810	810	46	81	6.5	5.2	6.0
12...	810	810	52	81	6.5	5.2	6.0
12...	810	810	59	82	6.5	5.2	5.9
12...	810	810	66	86	6.5	5.2	5.9
12...	810	810	72	96	6.5	5.2	5.9
12...	810	810	79	93	6.5	5.2	5.8
12...	810	810	85	93	6.5	5.2	5.8
12...	810	810	92	93	6.5	5.2	5.8
12...	810	810	98	94	6.5	5.2	5.8
12...	810	810	105	94	6.5	5.2	5.8
12...	810	810	112	94	6.5	5.2	5.8
12...	810	810	118	94	6.5	5.0	5.8
12...	810	810	125	96	6.5	5.0	5.8
12...	810	810	131	96	6.5	5.0	5.8
12...	810	810	138	96	6.5	5.0	5.8
12...	810	810	144	96	6.5	5.0	5.8
12...	810	810	151	97	6.5	5.0	5.8
12...	810	810	157	97	6.5	5.0	5.8
12...	810	810	164	97	6.6	5.0	5.8

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)
JAN							
12...	810	810	171	99	6.6	5.0	5.8
FEB							
16...	810	810	.0	89	6.7	10.4	7.0
16...	810	810	7.0	90	6.7	10.3	7.1
16...	810	810	13	92	6.7	10.0	7.3
16...	810	810	20	91	6.7	9.8	7.2
16...	810	810	26	91	6.7	8.5	7.3
16...	810	810	33	92	6.7	8.1	7.3
16...	810	810	39	93	6.7	8.0	7.2
16...	810	810	46	93	6.7	7.8	6.9
16...	810	810	52	96	6.7	7.8	6.7
16...	810	810	59	94	6.7	7.8	6.4
16...	810	810	66	96	6.7	7.8	6.2
16...	810	810	72	98	6.7	7.7	6.1
16...	810	810	79	99	6.7	7.7	6.1
16...	810	810	85	103	6.7	7.6	6.1
16...	810	810	92	104	6.6	7.5	6.0
16...	810	810	98	104	6.6	7.5	6.0
16...	810	810	105	106	6.6	7.4	5.8
16...	810	810	112	106	6.6	7.3	5.7
16...	810	810	118	108	6.6	7.2	5.6
16...	810	810	125	109	6.5	7.2	5.4
16...	810	810	131	110	6.5	7.1	5.4
16...	810	810	138	110	6.5	7.1	5.2
16...	810	810	144	112	6.5	7.1	5.1
16...	810	810	151	112	6.5	7.1	5.0
16...	810	810	157	112	6.5	7.1	5.1
16...	810	810	164	113	6.5	7.1	5.0
16...	810	810	171	--	6.6	--	5.0
MAR							
18...	810	810	.0	79	7.1	12.0	9.2
18...	810	810	7.0	79	7.1	12.0	9.4
18...	810	810	13	82	7.1	12.0	9.3
18...	810	810	20	84	7.1	12.0	9.5
18...	810	810	26	84	7.1	12.0	9.5
18...	810	810	33	86	7.1	11.9	9.5
18...	810	810	39	87	7.0	11.8	9.5
18...	810	810	46	88	6.9	11.6	8.6
18...	810	810	52	89	6.9	10.9	8.5
18...	810	810	59	94	6.8	8.0	7.8
18...	810	810	66	99	6.8	7.4	7.5
18...	810	810	72	103	6.7	7.3	7.6
18...	810	810	79	95	6.7	7.3	7.5
18...	810	810	85	96	6.7	7.2	7.5
18...	810	810	92	98	6.6	7.3	7.4
18...	810	810	98	99	6.6	7.3	7.3
18...	810	810	105	100	6.6	7.2	7.2
18...	810	810	112	100	6.6	7.2	7.2
18...	810	810	118	108	6.6	7.2	7.2
18...	810	810	125	104	6.6	7.1	7.1
18...	810	810	131	104	6.8	7.1	7.1
18...	810	810	138	106	6.7	7.1	7.0
18...	810	810	144	106	6.8	7.0	6.8
18...	810	810	151	106	6.8	7.0	6.7
18...	810	810	157	106	6.8	7.0	6.8
18...	810	810	164	108	6.5	7.0	6.8
18...	810	810	171	109	6.5	7.0	6.7
MAY							
05...	810	810	.0	69	7.2	18.8	10.6
05...	810	810	7.0	75	6.2	18.6	10.6
05...	810	810	13	77	6.2	18.1	10.6
05...	810	810	20	78	6.2	17.8	10.1
05...	810	810	26	80	6.2	17.5	9.7
05...	810	810	33	81	6.0	16.1	9.7
05...	810	810	39	80	5.5	13.2	8.6
05...	810	810	46	81	5.5	11.8	8.7
05...	810	810	52	83	6.0	10.0	7.2
05...	810	810	59	82	6.9	9.3	7.3
05...	810	810	66	82	6.9	8.7	6.8
05...	810	810	72	84	6.5	8.3	6.8
05...	810	810	79	88	6.4	8.1	6.5
05...	810	810	85	89	6.4	8.0	6.4
05...	810	810	92	90	6.3	8.0	6.3
05...	810	810	98	92	6.3	7.9	6.3
05...	810	810	105	92	6.3	7.9	6.1
05...	810	810	112	93	6.3	7.9	6.1
05...	810	810	118	93	6.2	7.9	6.1
05...	810	810	125	94	6.2	7.9	6.1
05...	810	810	131	94	6.2	7.9	6.0
05...	810	810	138	96	6.2	7.9	5.8

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
MAY							
05...	810	810	144	94	6.3	7.9	5.7
05...	810	810	151	88	6.4	7.9	5.7
05...	810	810	157	90	6.5	7.9	5.6
05...	810	810	164	92	6.4	7.9	5.7
05...	810	810	171	92	6.2	7.9	5.7
JUN							
07...	810	810	.0	56	7.2	23.0	8.1
07...	810	810	7.0	58	7.2	22.8	8.2
07...	810	810	13	58	7.2	21.3	8.0
07...	810	810	20	58	7.2	19.8	7.4
07...	810	810	26	59	6.8	19.1	6.9
07...	810	810	33	60	6.6	17.9	6.1
07...	810	810	39	60	6.5	15.8	5.3
07...	810	810	46	63	6.4	11.1	5.4
07...	810	810	52	64	6.3	9.8	5.7
07...	810	810	59	65	6.6	9.1	5.6
07...	810	810	66	65	6.7	8.3	5.5
07...	810	810	72	67	6.7	8.1	5.4
07...	810	810	79	67	6.7	8.0	5.4
07...	810	810	85	68	6.6	7.9	5.3
07...	810	810	92	68	6.5	7.8	5.3
07...	810	810	98	70	6.4	7.7	5.3
07...	810	810	105	73	6.2	7.7	5.3
07...	810	810	112	74	6.2	7.6	5.4
07...	810	810	118	77	6.2	7.5	5.4
07...	810	810	125	78	6.2	7.5	5.1
07...	810	810	131	78	6.6	7.5	5.0
07...	810	810	138	79	6.4	7.4	5.0
07...	810	810	144	79	6.3	7.4	5.0
07...	810	810	151	81	6.3	7.3	5.1
07...	810	810	157	82	6.2	7.3	5.1
07...	810	810	164	82	6.2	7.3	5.0
07...	810	810	171	82	6.5	7.3	5.2
JUL							
14...	810	810	.0	56	7.4	30.3	8.2
14...	810	810	7.0	57	7.3	30.0	8.1
14...	810	810	13	55	7.3	29.0	8.1
14...	810	810	20	61	6.9	22.0	5.9
14...	810	810	26	61	6.9	19.1	3.0
14...	810	810	33	64	6.9	16.5	2.7
14...	810	810	39	62	6.9	12.9	3.7
14...	810	810	46	65	6.8	10.5	4.2
14...	810	810	52	66	6.7	8.2	5.3
14...	810	810	59	67	6.6	8.2	5.4
14...	810	810	66	67	6.7	7.9	5.4
14...	810	810	72	67	6.9	7.5	5.5
14...	810	810	79	69	6.7	7.3	5.4
14...	810	810	85	69	6.6	7.3	5.4
14...	810	810	92	70	6.6	7.2	5.4
14...	810	810	98	73	6.6	7.2	5.4
14...	810	810	105	76	6.6	7.2	5.3
14...	810	810	112	76	6.6	7.2	5.3
14...	810	810	118	77	6.7	7.2	5.2
14...	810	810	125	78	6.8	7.2	5.2
14...	810	810	131	80	6.9	7.1	5.2
14...	810	810	138	81	6.9	7.1	5.2
14...	810	810	144	81	6.9	7.1	4.9
14...	810	810	151	82	6.6	7.1	4.8
14...	810	810	157	84	6.6	7.1	4.7
14...	810	810	164	82	6.6	7.1	4.7
14...	810	810	171	88	6.7	7.1	2.1
14...	810	810	177	110	6.7	7.1	6.4

07359910 CADDO RIVER AT DEGRAY REGULATING DAM, NEAR ARKADELPHIA, AR

LOCATION.--Lat 34°10'38", long 93°06'00", in NW¼NE¼ sec.35, T.6 S., R.20 W., Clark County, in control house on left bank at DeGray Regulating Dam, 0.1 mi (0.2 km) downstream from DeGray Creek, 2.2 mi (3.5 km) west of Caddo Valley, 4.2 mi (6.8 km) northwest of Arkadelphia, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--480 mi^2 (1,243 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1967 to September 1975. Prior to Jan. 1, 1971, published as Caddo River at DeGray Dam, near Arkadelphia. Gage-height records collected and occasional discharge measurements made by Corps of Engineers in the vicnity since February 1947. Daily stages 1964 to date and results of discharge measurements 1947 to date in published reports of Corps of Engineers. Prior to November 1963, discharge measurements were at damsite range.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Jan. 1, 1969, water-stage recorder at site 2.6 mi (4.2 km) upstream at datum 209.04 ft (63.715 m) above mean sea level. Jan. 1, 1969, to Dec. 31, 1970, nonrecording gage at site 3.1 mi (5.0 km) upstream at present datum.

REMARKS.--Flow regulated by DeGray Lake since August 1969 (see station 07359900), and by DeGray Regulating Dam since January 1971, capacity, 3,600 acre-ft (4.44 hm^3).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--8 years, 848 ft^3/s (24.0 m^3/s), 614,400 acre-ft/yr (758 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,300 ft^3/s (1,250 m^3/s) May 14, 1968, gage height, 21.55 ft (6.568 m), site and datum then in use, affected by temporary storage behind Dam, then under construction; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 26, 1966, reached a stage of 18.98 ft (5.785 m), site and datum then in use.

EXTREMES FOR WATER YEAR 1975.--Maximum daily discharge, 6,680 ft^3/s (189 m^3/s) Mar. 31; minimum daily, 126 ft^3/s (3.57 m^3/s) July 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	655	2840	2800	204	3460	393	6220	448	155	778	166	404
2	743	1710	3540	1520	2420	215	6180	801	160	227	165	1460
3	294	1050	2830	1060	4560	1170	6320	4340	167	965	161	931
4	168	3540	3130	509	4060	244	2300	2100	303	549	155	568
5	167	1900	2290	215	4250	1710	390	4260	184	1040	153	314
6	166	1190	3110	170	4250	1970	575	6180	177	235	157	170
7	696	1810	1420	363	5630	606	1640	5250	168	550	161	167
8	650	1710	835	166	586	537	3290	4430	168	993	163	165
9	317	1380	3770	161	535	348	1860	4330	919	725	163	161
10	434	3280	3820	1170	2090	1960	1480	4540	3520	205	160	155
11	407	3470	3620	409	573	1790	1410	1660	468	167	161	152
12	177	2820	4320	1540	498	1890	459	3870	169	165	1340	138
13	167	3140	4380	1800	468	1760	380	3320	168	161	1220	134
14	501	2760	4240	527	405	1630	1040	3760	1120	157	706	148
15	761	3630	1480	831	572	795	543	4280	2330	152	882	150
16	1470	621	3950	659	272	485	438	3050	2570	153	665	160
17	1730	696	4190	1020	352	1530	1120	828	1410	155	214	157
18	3080	1930	1940	299	294	1530	1790	369	2350	149	486	160
19	1840	2350	566	166	323	2200	231	3760	2030	136	768	166
20	968	2130	2420	975	323	1300	355	3490	2560	126	1020	165
21	3510	2220	1800	1050	447	709	303	3990	607	155	859	161
22	2290	1550	415	487	742	556	168	4090	168	493	723	157
23	304	2660	800	705	759	1660	731	4030	167	679	621	153
24	970	1830	430	1110	617	1590	1870	601	166	371	586	150
25	793	3860	222	356	230	522	1650	168	166	841	610	150
26	228	2970	385	245	1030	1100	382	166	410	385	757	153
27	196	3020	288	319	1820	4170	348	167	355	180	807	150
28	1410	3060	229	173	1150	5190	1710	165	177	395	405	153
29	2000	3260	170	173	---	4010	926	165	167	292	793	153
30	1990	2470	167	325	---	3940	1810	161	166	211	218	163
31	2320	---	168	803	---	6680	---	160	---	168	167	---
TOTAL	31402	70857	63725	19510	42716	54190	47919	78929	23645	11958	15612	7568
MEAN	1013	2362	2056	629	1526	1748	1597	2546	788	386	504	252
MAX	3510	3860	4380	1800	5630	6680	6320	6180	3520	1040	1340	1460
MIN	166	621	167	161	230	215	168	160	155	126	153	134
AC-FT	62290	140500	126400	38700	84730	107500	95050	156600	46900	23720	30970	15010

CAL YR 1974 TOTAL 496765 MEAN 1361 MAX 6820 MIN 137 AC-FT 985300
WTR YR 1975 TOTAL 468031 MEAN 1282 MAX 6680 MIN 126 AC-FT 928300

07360000 OUACHITA RIVER AT ARKADELPHIA, AR

LOCATION.--Lat 34°07'16", long 93°02'46", in sec.17, T.7 S., R.19 W., Clark County, on downstream side of bridge on State Highway 7 at Arkadelphia, 5.4 mi (8.7 km) downstream from Caddo River, and at mile 420.6 (676.7 km).

DRAINAGE AREA.--2,311 mi^2 (5,985 km^2).

PERIOD OF RECORD.--September 1905 to December 1906, May 1929 to September 1950, and October 1965 to September 1975 in reports of Geological Survey. Monthly discharge only for some periods published in WSP 1311. October 1950 to date in reports of Corps of Engineers. Gage-height records collected at same site since 1913 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 160.30 ft (48.859 m) above mean sea level. September 1905 to December 1906, nonrecording gage at site 800 ft (244 m) downstream at different datum. Apr. 16, 1929, to Sept. 28, 1934, nonrecording gage at present site at datum 5.00 ft (1.524 m) higher. Sept. 29, 1934, to Mar. 31, 1946, nonrecording gage at present site and datum.

REMARKS.--Flow regulated by Lake Catherine, 37.5 mi (60.3 km) upstream, since 1925 (see station 07359000), by Lake Hamilton since 1932 (see station 07358500), by Lake Ouachita since 1952 (see station 07357500), and by DeGray Lake since August 1969 (see station 07359900).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--47 years (1905-06, 1929-75), 3,558 ft^3/s (101 m^3/s), 2,578,000 acre-ft/yr (3,180 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 170,000 ft^3/s (4,810 m^3/s) Mar. 30, 1945, gage height, 30.3 ft (9.24 m), from floodmark, from rating curve extended above 161,000 ft^3/s (4,560 m^3/s); minimum daily, 74 ft^3/s (2.10 m^3/s) Oct. 5, 1931.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 27,900 ft^3/s (790 m^3/s) May 3, gage height, 20.17 ft (6.148 m); minimum, 490 ft^3/s (13.9 m^3/s) Aug. 6, gage height, 4.13 ft (1.259 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4840	11000	16100	5100	11000	4040	16000	5940	895	1320	710	725
2	2540	7900	13000	4200	22900	1780	15800	5600	745	1360	680	1720
3	2090	4080	13000	10500	19900	3370	15100	17100	2540	1440	700	3670
4	1420	6370	12300	9340	16000	4500	12400	22300	3370	1960	1780	3070
5	1320	8750	13200	6960	14300	4640	8390	15600	3600	1340	787	2400
6	1370	5010	14500	2920	13600	5260	8240	15600	3440	1720	700	931
7	1960	5180	14900	6460	15000	4340	7980	17700	5780	943	962	735
8	3010	3990	13700	6120	8660	3880	11200	16100	3370	1440	943	710
9	3090	4500	12800	4640	5260	3960	11600	12600	4640	1500	931	1240
10	2280	7050	13800	6620	6460	4940	9520	12400	9340	1240	705	1440
11	3330	17800	10300	9520	5940	6800	9340	8500	8160	735	655	1380
12	2930	11800	12000	4040	4340	7640	8500	7480	4200	710	1720	1240
13	1790	11100	13000	7730	3740	9860	8320	9180	3900	660	3740	1840
14	1220	10300	12800	7590	5260	10200	9340	7300	4340	715	2840	770
15	3250	10600	11000	6460	4940	7980	6960	15500	4800	710	2040	670
16	3570	11600	10300	5780	3440	6280	4340	13400	4340	670	2240	1020
17	4500	8750	12200	5100	2700	6120	4640	5940	6120	841	2100	1550
18	4670	3170	8750	5260	5260	10500	5940	3850	4340	710	1900	835
19	5520	9260	5010	1240	5600	13300	4500	3900	4800	675	2700	997
20	4160	9260	4080	1840	4340	8320	3300	8500	4640	655	3520	1720
21	4500	8920	7220	1780	4200	6120	2240	10200	4340	913	3440	835
22	7050	9260	4240	1840	4500	5600	2180	10000	1660	1440	3300	685
23	3570	9770	1790	1380	6800	6620	3670	8320	811	1360	2840	730
24	1320	11000	3410	1660	7300	6460	4640	7140	853	1400	2700	720
25	2850	19300	4240	3140	5940	5940	5600	3140	962	1100	3070	630
26	2160	16100	2690	3440	5600	6280	6460	2540	1150	1500	3420	665
27	682	12500	6200	2400	6620	8660	4040	2840	1660	990	3440	665
28	1640	12200	6200	4200	4940	18100	6120	3300	1150	1100	3070	655
29	9430	13300	5690	4040	---	24300	5440	3520	1000	1650	3000	660
30	6030	19300	3090	1440	---	18100	6120	3140	853	1640	2840	765
31	6880	---	6710	5260	---	16000	---	2540	---	793	799	---
TOTAL	104972	299120	288220	148000	224540	249890	227920	281170	101799	35230	64272	35673
MEAN	3386	9971	9297	4774	8019	8061	7597	9070	3393	1136	2073	1189
MAX	9430	19300	16100	10500	22900	24300	16000	22300	9340	1960	3740	3670
MIN	682	3170	1790	1240	2700	1780	2180	2540	745	655	655	630
AC-FT	208200	593300	571700	293600	445400	495700	452100	557700	201900	69880	127500	70760

CAL YR 1974 TOTAL 2121252 MEAN 5812 MAX 56500 MIN 340 AC-FT 4208000
WTR YR 1975 TOTAL 2060806 MEAN 5646 MAX 24300 MIN 630 AC-FT 4088000

07360162 OUACHITA RIVER NEAR SPARKMAN, AR

LOCATION.--Lat 33°53'54", long 92°54'24", in sec.36, T.9 S., R.18 W., Clark-Dallas County line, at bridge on county road, 3.0 mi (4.8 km) southwest of Sparkman.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 14...	9827	9827	76	7.0	20.0	20.0	10	10	8.0	87	1.1	280
NOV 18...	9827	9827	66	7.1	12.0	13.0	10	5	9.2	87	.4	270
DEC 09...	9827	9827	75	7.0	7.0	10.0	15	6	10.2	90	.7	110
JAN 21...	9827	9827	122	7.2	9.0	7.0	15	7	11.7	96	1.0	390
FEB 18...	9827	9827	127	6.9	11.0	14.0	40	35	8.4	80	1.4	1400
MAR 18...	9827	9827	74	7.0	15.0	14.0	40	9	9.5	91	.9	62
APR 20...	9827	9827	478	5.9	27.0	23.0	55	20	7.1	82	1.1	<13
MAY 19...	9827	9827	100	7.2	20.0	20.0	30	15	8.2	89	1.1	140
JUN 16...	9827	9827	126	6.7	25.0	24.0	50	90	7.1	84	2.0	--
JUL 21...	9827	9827	155	7.1	30.0	26.0	20	7	7.4	90	.8	<20
AUG 18...	9827	9827	123	7.1	23.0	26.0	20	20	7.2	88	.6	700
SEP 21...	9827	9827	167	7.2	26.0	25.0	20	8	8.6	102	1.1	520

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 14...	35	120	--	--	--	--	--	--	--	--	--	--
NOV 18...	10	10	20	0	6.0	16	1.0	4.4	1.2	24	0	20
DEC 09...	21	5	--	--	--	--	--	--	--	--	--	--
JAN 21...	92	24	--	--	--	--	--	--	--	--	--	--
FEB 18...	780	490	28	15	9.0	22	1.0	12	3.0	16	0	13
MAR 18...	12	--	--	--	--	--	--	--	--	--	--	--
APR 20...	24	190	--	--	--	--	--	--	--	--	--	--
MAY 19...	12	15	32	18	7.0	18	3.0	7.4	2.4	17	0	14
JUN 16...	1400	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	<4	15	--	--	--	--	--	--	--	--	--	--
AUG 18...	360	160	30	10	10	24	1.0	8.2	2.3	24	0	20
SEP 21...	300	<10	--	--	--	--	--	--	--	--	--	--

07360162 OUACHITA RIVER NEAR SPARKMAN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT 14...	--	9.0	12	55	26	81	.55	.03	--	--	--	--
NOV 18...	3.1	5.0	7.5	36	10	46	.14	.01	<3	<10	0	<10
DEC 09...	--	6.0	12	62	9	71	.22	.01	--	--	--	--
JAN 21...	--	6.0	18	85	16	101	.50	.02	--	--	--	--
FEB 18...	3.2	23	20	121	25	146	.82	.07	<3	<10	<3	<10
MAR 18...	--	8.0	10	60	26	86	.34	.01	--	--	--	--
APR 20...	--	18	110	293	15	308	.14	.03	--	--	--	--
MAY 19...	1.7	9.0	11	71	27	98	.64	.10	<3	<10	<3	<10
JUN 16...	--	31	14	101	174	275	1.1	<.01	--	--	--	--
JUL 21...	--	16	22	--	--	--	.12	.05	--	--	--	--
AUG 18...	3.1	9.0	14	78	31	109	.56	.06	--	--	<3	<10
SEP 21...	--	23	18	99	6	105	.98	.02	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT 14...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 18...	300	10	92	10	--	--	--	--	--	--	--	--
DEC 09...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
JAN 21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 18...	1300	20	260	10	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	630	80	160	20	--	--	--	--	--	--	--	--
JUN 16...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 18...	990	60	230	<10	--	--	--	--	--	--	--	--
SEP 21...	--	--	--	--	--	--	--	--	--	--	--	--

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY, AR

LOCATION.--Lat 34°18'36", long 93°53'54", in SW¼ sec.16, T.5 S., R.27 W., Pike County, at bridge on State Highway 84, 1.6 mi (2.6 km) downstream from White Oak Creek, and 3.3 mi (5.3 km) west of Langley.

DRAINAGE AREA.--66.5 mi^2 (172 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
15...	9827	9827	--	53	7.4	27.0	24.0	5	2	9.0
NOV										
19...	9827	9827	--	50	7.4	20.0	17.0	5	2	10.1
DEC										
09...	9827	9827	--	29	7.1	13.0	14.0	15	6	11.2
JAN										
21...	9827	9827	--	49	7.0	17.0	10.0	5	3	13.1
FEB										
18...	9827	9827	17	26	6.8	18.0	17.0	30	15	10.4
MAR										
17...	9827	9827	--	32	7.1	20.0	16.0	10	4	11.2
APR										
14...	9827	9827	--	44	7.4	23.0	24.0	5	2	11.7
MAY										
19...	9827	9827	16	38	7.4	26.0	23.0	10	<25	10.8
JUN										
16...	9827	9827	--	46	7.4	29.0	27.0	10	<25	9.4
JUL										
27...	9827	9827	--	61	7.5	36.0	30.0	15	2	9.2
AUG										
24...	9827	9827	--	62	7.5	26.0	25.0	5	2	9.0
SEP										
28...	9827	9827	--	58	7.3	25.0	24.0	10	4	9.3
29...	9827	9827	--	--	--	--	--	--	--	--

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
15...	106	1.7	200	18	--	--	--	--	--	--
NOV										
19...	104	1.3	140	<25	--	--	--	--	--	--
DEC										
09...	108	.9	90	13	96	20	8	5.0	12	2.0
JAN										
21...	116	2.6	7	5	--	16	--	5.0	12	1.0
FEB										
18...	108	1.3	230	85	--	--	--	--	--	--
MAR										
17...	112	--	13	4	--	--	--	--	--	--
APR										
14...	138	3.6	<7	24	--	16	0	5.0	12	1.0
MAY										
19...	124	1.6	<5	28	--	--	--	--	--	--
JUN										
16...	116	2.1	105	120	--	--	--	--	--	--
JUL										
27...	121	2.4	130	120	4	22	0	7.0	18	1.0
AUG										
24...	107	2.0	380	380	150	--	--	--	--	--
SEP										
28...	109	--	--	--	--	--	--	--	--	--
29...	--	--	180	70	--	--	--	--	--	--

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
15...	--	--	--	--	--	--	4.0	5.0	54	1
NOV										
19...	--	--	--	--	--	--	2.0	3.5	45	2
DEC										
09...	2.0	.5	15	0	12	1.9	7.0	3.5	32	1
JAN										
21...	2.0	.0	--	0	--	--	<1.0	4.0	30	15
FEB										
18...	--	--	--	--	--	--	2.0	4.0	32	14
MAR										
17...	--	--	--	--	--	--	3.0	4.0	32	2
APR										
14...	2.0	.0	22	0	18	1.4	<1.0	3.0	26	0
MAY										
19...	--	--	--	--	--	--	2.0	3.5	47	1
JUN										
16...	--	--	--	--	--	--	1.0	3.5	37	3
JUL										
27...	5.2	.8	28	0	23	1.4	<1.0	3.0	37	4
AUG										
24...	--	--	--	--	--	--	1.0	3.0	41	1
SEP										
28...	--	--	--	--	--	--	2.0	3.5	42	2
29...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
15...	55	<.10	<1.0	--	<10	0	<10	50	<10	24
NOV										
19...	47	.11	<.01	--	--	--	--	--	--	--
DEC										
09...	33	.42	<.01	<3	<10	0	<10	250	<10	16
JAN										
21...	45	<.10	<.01	<3	<10	<3	<10	110	<10	<27
FEB										
18...	46	.15	.03	--	--	--	--	--	--	--
MAR										
17...	34	<.10	<.01	--	--	--	--	--	--	--
APR										
14...	26	<.10	<.01	<3	<10	<3	<10	<17	<10	<27
MAY										
19...	48	17	<.01	--	--	--	--	--	--	--
JUN										
16...	40	<.10	<.01	--	--	--	--	--	--	--
JUL										
27...	41	<.10	<.01	<3	<10	<3	<10	170	<10	<27
AUG										
24...	42	<.10	<.01	--	--	--	--	--	--	--
SEP										
28...	44	<.10	.01	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
15...	<10	--	--	--	--	--	--	--	--
NOV									
19...	--	--	--	--	--	--	--	--	--
DEC									
09...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
21...	<10	--	--	--	--	--	--	--	--
FEB									
18...	--	--	--	--	--	--	--	--	--
MAR									
17...	--	--	--	--	--	--	--	--	--
APR									
14...	<10	--	--	--	--	--	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
JUN									
16...	--	--	--	--	--	--	--	--	--
JUL									
27...	<10	--	--	--	--	--	--	--	--
AUG									
24...	--	--	--	--	--	--	--	--	--
SEP									
28...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--

07360500 LAKE GREESON NEAR MURFREESBORO, AR

LOCATION.--Lat 34°08'55", long 93°42'55", in NW¼ sec.18, T.7 S., R.25 W., Pike County, at Narrows Dam on Little Missouri River, 6.5 mi (10.5 km) northwest of Murfreesboro, 9.7 mi (15.6 km) upstream from Muddy Fork, and at mile 105.5 (169.7 km).
DRAINAGE AREA.--237 mi² (614 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1949 to current year. Prior to October 1951, published as Narrows Reservoir near Murfreesboro.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Jan. 15, 1950, nonrecording gage at site 700 ft (213 m) upstream at present datum. Jan. 15 to July 10, 1950, nonrecording gage and July 11 to Oct. 2, 1950, automatic Selsyn Repeater gage, at present site and datum.
REMARKS.--Lake is formed by concrete-gravity dam. Outlet works consists of a flood-control section containing two regulated outlets, a power intake section containing three 10 ft (3 m) diameter penstocks, and an uncontrolled overflow spillway section. Storage began Nov. 30, 1949, and bottom of power pool was first reached Feb. 1, 1950. Capacity between elevations 548.0 ft (167.03 m) and 563.0 ft (171.60 m) is 128,200 acre-ft (158 hm³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest	563.0 (171.60 m)	407,900 (503 hm³)
Top of designated power pool	548.0 (167.03 m)	279,700 (345 hm³)
Top of conservation pool and bottom of designated power pool	504.0 (153.62 m)	77,600 (95.7 hm³)
Bottom of lowest outlet	436.9 (133.17 m)	--

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 423,800 acre-ft (523 hm³) May 18, 19, 1968, elevation, 564.60 ft (172.090 m); minimum since top of power pool was first reached, 160,000 acre-ft (197 hm³) Dec. 24, 1963, elevation, 527.62 ft (160.819 m).
EXTREMES FOR WATER YEAR 1975.--Maximum contents, 278,200 acre-ft (343 hm³) June 19, elevation, 547.79 ft (166.966 m); minimum, 201,200 acre-ft (248 hm³) Sept. 30, elevation, 536.72 ft (163.592 m).
EXTREMES FOR WATER YEAR 1976.--Maximum contents, 299,600 acre-ft (369 hm³) June 28, elevation, 550.66 ft (167.841 m); minimum, 185,700 acre-ft (229 hm³) Dec. 26, elevation, 532.82 ft (162.404 m).

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

532	181.4	543	245.2
535	197.3	548	279.7
538	214.3	551	302.2

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238500	233700	265400	225000	225100	238500	262500	244700	259200	276900	261100	223600
2	237900	235000	265700	224500	249400	238500	260200	244500	259200	277200	261100	221300
3	236800	236400	265200	223300	254000	238600	257500	250700	259300	277200	261700	218700
4	235300	238700	262900	224200	256400	234800	256800	261600	259300	277200	262000	215900
5	233800	238300	259900	225600	257700	230900	257600	265000	259400	277200	262000	213500
6	234200	236800	261000	226700	258100	228800	258300	265200	259400	277200	262000	210900
7	232800	234400	267700	226100	256200	227800	258300	264100	260700	277200	260100	210800
8	231000	231200	269300	226900	254400	227800	255600	262400	265700	275600	258600	210800
9	230900	229700	269300	227900	254000	228000	253000	263100	269300	275600	258500	210700
10	231000	231300	267200	229200	254700	228900	250000	263600	276500	273700	258500	207800
11	229500	245000	264300	230400	252400	227700	246800	264500	277700	273600	258400	205500
12	229600	247100	261600	231500	253200	226800	244300	265200	277600	271800	256100	203100
13	229000	247600	258900	232000	250700	226700	244800	264700	276600	268800	253900	203100
14	229000	246300	256600	228800	245600	226800	245700	264900	274700	268600	252000	203000
15	229300	243800	254100	226300	242700	227200	244100	265500	275000	268500	249900	203000
16	229300	241200	258000	227000	241000	229000	243200	265800	274400	268400	247100	203700
17	229000	239700	251700	227400	240500	231900	241200	266000	275900	266100	244700	204100
18	228200	240100	249200	227900	239100	232800	241800	266200	277200	264200	243000	204300
19	228300	237800	246300	228400	237600	236000	240300	266300	278000	262200	240300	204500
20	228200	236100	243600	227500	237000	237600	240600	263400	278000	262100	238800	202600
21	228200	235300	240600	225500	235900	238600	240900	262300	276400	263400	238000	202600
22	228100	233700	238700	224500	236200	237300	239600	260500	276700	265900	236700	202600
23	226200	234100	239100	224700	236700	235400	239800	258300	277700	265400	234400	202600
24	224300	250800	237000	225000	237600	236000	240100	257700	278000	264100	234400	202600
25	224300	260400	237600	223400	237200	234000	239100	258100	277100	264200	234300	202600
26	224400	262300	237600	223900	237800	244100	238800	258300	277200	264500	233000	202600
27	224500	262700	235600	224100	238000	231000	239200	258700	277400	264600	231000	202500
28	224500	261700	232800	224300	238000	234800	240600	258300	277500	265300	228700	202500
29	228400	261900	230600	223700	---	258000	242600	258600	277900	265400	226000	202400
30	229500	264000	228000	223400	---	262600	242900	258900	276800	263700	224300	202000
31	228700	---	226100	222600	---	264100	---	259000	---	261100	224200	---
MAX	238500	264000	269300	232000	258100	264100	262500	266300	278000	277200	262000	223600
MIN	224300	229700	226100	222600	225100	226700	238800	244500	259200	261100	224200	202000
(†)	540.89	545.87	539.71	539.60	541.93	545.55	542.79	545.07	547.60	545.37	539.55	535.72
(‡)	-6700	+32900	-40100	-600	+14500	+24000	-18600	+15300	+17700	-15700	-37500	-22400

CAL YR 1974 MAX 377000 MIN 224300 ‡ -47000
WTR YR 1975 MAX 278000 MIN 202000 ‡ -37200

† ELEVATION, IN FEET, AT 2400, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07360500 LAKE GREESON NEAR MURFREESBORO, AR--Continued

CONTENTS, IN ACRE-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	201200	189700	184300	199400	189100	215900	252700	263200	270500	287800	234600	209700
2	201000	189800	184600	200500	189300	215900	252800	263300	271600	284400	234600	209400
3	200900	190500	183800	201400	189100	216200	253200	263400	272800	280100	234600	209600
4	200500	190800	184000	201000	189200	216500	253600	263400	273400	278500	234400	209900
5	200400	190900	184200	201100	189700	217400	254000	263400	274300	278800	234400	210100
6	200400	191000	184800	198400	190700	217600	254200	262900	274800	279200	232400	209000
7	200400	191100	186600	199000	191000	217900	254400	262300	275400	279400	229900	209000
8	200400	191200	187300	196300	191500	221900	254600	261200	274700	279600	229800	208900
9	200300	191200	187900	192300	191900	240500	254700	261600	274300	279600	229700	208900
10	199200	191300	188300	190700	192200	245200	254800	262000	274200	277800	229600	208400
11	197000	191300	188600	190100	192700	247900	255000	260800	273600	277400	229300	208300
12	194800	191400	188800	190400	192900	250000	255100	260400	272400	275400	228800	208300
13	194800	191200	188100	190500	193100	251300	255200	262600	272400	272200	228200	208200
14	192800	187400	188300	190600	193200	252600	255400	264800	272400	269900	226500	208100
15	190700	186000	188800	189500	193400	253200	255600	266200	272300	269900	224300	207600
16	190600	185900	187800	188800	193600	254600	255600	267400	272600	269800	224200	208000
17	190600	185900	187800	188100	194100	254800	255700	268100	271400	268600	221400	205800
18	190600	185900	187300	188200	202300	255300	255900	268600	269200	268600	218100	204100
19	190500	185900	184500	188300	206000	255400	256300	268900	272400	268500	214900	204200
20	190400	186900	183000	188800	207900	256200	257600	269200	273400	264400	214800	204300
21	190400	187200	183200	188900	210100	256400	259000	269300	273900	261100	214700	204700
22	190300	187300	183300	189100	212000	256800	260000	269100	274300	259800	214600	204300
23	190200	187500	183400	189200	213200	254600	260600	269300	274600	257300	214600	204300
24	190300	187600	183000	189400	214300	251800	261500	269500	274300	254400	214500	204300
25	190400	184600	183700	189900	215100	249600	262400	269500	290600	252100	214500	203500
26	190300	183600	184000	190500	214200	247600	262600	269600	297100	249300	213400	203500
27	190300	183300	184500	188900	214800	247900	262900	269000	298600	245800	211200	203200
28	190300	183400	185100	188700	215200	248100	263300	269200	299600	242900	209200	203300
29	189900	183400	191700	188700	215600	249300	263400	269400	296300	240100	209400	203100
30	189900	183900	196800	188500	---	250900	262900	269500	292200	238100	209500	203100
31	189700	---	199100	188800	---	251700	---	269800	---	235800	209400	---
MAX	201200	191400	199100	201400	215600	256800	263400	269800	299600	287800	234600	210100
MIN	189700	183300	183000	188100	189100	215900	252700	260400	269200	235800	209200	203100
(†)	533.58	532.53	535.32	533.42	538.27	544.07	545.65	546.62	549.33	541.33	537.21	536.05
(‡)	-11500	-5600	+14900	-10200	+27100	+36500	+10700	+6700	+19700	-55000	-24800	-6600

CAL YR 1975 MAX 278000 MIN 183000 ‡ -25500
WTR YR 1976 MAX 299600 MIN 183000 ‡ +1900

† ELEVATION, IN FEET, AT 2400, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07360500 LAKE GREESON NEAR MURFREESBORO, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1969 to current year. August 1973 to August 1974 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Flow completely regulated by Lake Greeson.

COOPERATION.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT							
13...	810	810	.0	42	7.0	22.5	7.5
13...	810	810	7.0	42	7.0	21.5	7.2
13...	810	810	13	45	7.0	21.5	7.3
13...	810	810	20	45	6.9	21.2	6.2
13...	810	810	26	45	6.8	21.0	5.6
13...	810	810	33	48	6.7	20.8	4.3
13...	810	810	39	56	6.6	19.2	.5
13...	810	810	46	58	6.6	16.0	.5
13...	810	810	52	58	6.6	14.0	.4
13...	810	810	59	55	6.6	13.0	.4
13...	810	810	66	56	6.6	11.5	.7
13...	810	810	72	57	6.6	11.0	.7
13...	810	810	79	58	6.6	10.0	1.1
13...	810	810	85	58	6.6	10.0	1.1
13...	810	810	92	58	6.6	9.0	2.2
13...	810	810	98	62	6.6	8.9	1.7
13...	810	810	105	65	6.5	8.8	.7
13...	810	810	112	90	6.6	8.8	.2
13...	810	810	118	130	6.7	8.4	.2
NOV							
17...	810	810	.0	44	6.6	16.2	5.2
17...	810	810	7.0	46	6.6	16.2	5.3
17...	810	810	13	46	6.6	16.0	5.2
17...	810	810	20	49	6.6	16.0	5.2
17...	810	810	26	49	6.6	16.0	5.2
17...	810	810	33	52	6.5	16.0	5.2
17...	810	810	39	52	6.4	16.0	4.8
17...	810	810	46	56	6.3	15.8	4.2
17...	810	810	52	59	6.3	15.0	.7
17...	810	810	59	61	6.3	12.9	.2
17...	810	810	66	62	6.3	11.8	.1
17...	810	810	72	57	6.3	10.8	.1
17...	810	810	79	58	6.3	10.0	.2
17...	810	810	85	58	6.3	9.4	.3
17...	810	810	92	58	6.3	9.0	.9
17...	810	810	98	58	6.3	9.0	.4
17...	810	810	105	75	6.6	8.5	.1
17...	810	810	112	107	6.6	8.5	.1
17...	810	810	118	130	6.6	8.5	.1
JAN							
05...	810	810	.0	49	--	8.5	7.4
05...	810	810	7.0	51	--	8.5	6.5
05...	810	810	13	51	6.4	8.5	6.4
05...	810	810	20	52	6.5	8.5	6.2
05...	810	810	26	56	6.5	8.5	6.2
05...	810	810	33	57	6.5	8.5	6.2
05...	810	810	39	59	6.5	8.5	6.2
05...	810	810	46	62	6.5	8.5	6.2
05...	810	810	52	64	6.5	8.5	6.2
05...	810	810	59	62	6.5	8.5	6.2
05...	810	810	66	64	6.5	8.5	6.2
05...	810	810	72	66	6.5	8.5	6.1
05...	810	810	79	66	6.5	8.5	6.1
05...	810	810	85	66	6.5	8.5	6.0
05...	810	810	92	69	6.5	8.5	5.8
05...	810	810	98	72	6.7	8.5	5.8
05...	810	810	105	72	6.7	8.5	4.8
05...	810	810	112	87	6.9	8.5	4.8
05...	810	810	118	127	6.9	8.5	.5
FEB							
16...	810	810	.0	42	6.5	8.5	6.9
16...	810	810	7.0	46	6.5	8.1	6.9
16...	810	810	13	47	6.5	8.0	6.8
16...	810	810	20	48	6.5	8.0	6.7
16...	810	810	26	51	6.5	7.9	6.6
16...	810	810	33	52	6.4	7.8	6.5
16...	810	810	39	53	6.4	7.7	6.5
16...	810	810	46	53	6.4	7.5	6.4
16...	810	810	52	54	6.4	7.5	6.4
16...	810	810	59	55	6.4	7.4	6.4
16...	810	810	66	57	6.4	7.4	6.2
16...	810	810	72	58	6.4	7.4	6.0
16...	810	810	79	59	6.4	7.4	6.0
16...	810	810	85	61	6.5	7.4	5.5
16...	810	810	92	66	6.5	7.4	5.8
16...	810	810	98	66	6.5	7.4	5.5
16...	810	810	105	66	6.5	7.3	5.3
16...	810	810	112	66	6.5	7.3	5.0
16...	810	810	118	67	6.5	7.3	4.8
16...	810	810	125	67	6.6	7.3	4.5
MAR							
23...	810	810	.0	48	7.0	13.5	10.3

07360500 LAKE GREESON NEAR MURFREESBORO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)
MAR							
23...	810	810	7.0	51	7.0	13.0	10.3
23...	810	810	13	55	7.0	13.0	10.3
23...	810	810	20	58	6.9	13.0	10.0
23...	810	810	26	60	6.9	12.0	10.0
23...	810	810	33	61	6.9	11.5	9.8
23...	810	810	39	66	6.9	11.0	9.6
23...	810	810	46	66	6.9	11.0	9.3
23...	810	810	52	66	6.9	10.0	9.2
23...	810	810	59	69	6.9	9.5	8.6
23...	810	810	66	71	6.9	9.0	8.6
23...	810	810	72	77	6.8	8.5	8.6
23...	810	810	79	77	6.8	8.0	8.6
23...	810	810	85	77	6.8	8.0	8.5
23...	810	810	92	77	6.8	8.0	8.5
23...	810	810	98	78	6.7	7.5	8.3
23...	810	810	105	78	6.7	7.5	8.2
23...	810	810	112	78	6.7	7.4	8.2
23...	810	810	118	78	6.7	7.0	7.2
23...	810	810	125	78	6.7	7.0	7.2
23...	810	810	131	78	6.7	7.0	7.0
23...	810	810	138	78	6.7	7.0	6.8
MAY							
03...	810	810	.0	37	6.9	18.5	10.1
03...	810	810	7.0	40	6.9	18.0	10.2
03...	810	810	13	43	6.9	18.0	10.1
03...	810	810	20	44	6.8	17.5	9.9
03...	810	810	26	46	6.8	17.5	9.8
03...	810	810	33	48	6.8	14.0	9.7
03...	810	810	39	49	6.5	12.5	8.6
03...	810	810	46	50	6.4	11.5	8.1
03...	810	810	52	50	6.4	11.0	7.8
03...	810	810	59	51	6.4	10.0	7.5
03...	810	810	66	51	6.4	10.0	7.3
03...	810	810	72	53	6.4	9.0	6.9
03...	810	810	79	54	6.3	8.6	6.9
03...	810	810	85	54	6.3	8.5	6.9
03...	810	810	92	51	6.3	8.5	6.7
03...	810	810	98	51	6.2	8.5	6.3
03...	810	810	105	51	6.2	8.0	6.3
03...	810	810	112	52	6.2	8.0	5.9
03...	810	810	118	54	6.2	8.0	5.8
03...	810	810	125	54	6.2	8.0	4.8
03...	810	810	131	55	6.2	8.0	4.6
03...	810	810	138	56	6.2	8.0	4.3
03...	810	810	144	58	--	8.0	3.9
JUN							
08...	810	810	.0	38	7.3	24.0	8.4
08...	810	810	7.0	40	7.2	24.0	8.4
08...	810	810	13	40	7.1	23.0	8.5
08...	810	810	20	42	7.0	19.5	7.3
08...	810	810	26	44	6.6	18.0	6.0
08...	810	810	33	45	6.4	17.0	5.3
08...	810	810	39	45	6.3	15.0	5.1
08...	810	810	46	46	6.3	13.5	5.5
08...	810	810	52	47	6.3	12.5	5.9
08...	810	810	59	48	6.3	12.0	6.1
08...	810	810	66	50	6.3	11.5	6.1
08...	810	810	72	50	6.3	10.5	6.0
08...	810	810	79	51	6.3	10.0	5.8
08...	810	810	85	52	6.3	10.0	5.7
08...	810	810	92	53	6.3	9.0	5.8
08...	810	810	98	54	6.3	9.0	5.2
08...	810	810	105	57	6.3	8.5	4.9
08...	810	810	112	58	6.3	8.0	4.7
08...	810	810	118	59	6.2	8.0	4.1
08...	810	810	125	62	6.2	8.0	3.7
08...	810	810	131	62	6.2	8.0	2.8
08...	810	810	138	64	6.2	8.0	1.8
08...	810	810	144	67	6.2	8.0	.3
JUL							
12...	810	810	.0	36	7.3	28.0	8.7
12...	810	810	7.0	36	7.3	28.0	8.0
12...	810	810	13	37	7.3	27.0	8.0
12...	810	810	20	39	6.9	25.0	7.6
12...	810	810	26	40	6.8	21.5	3.7
12...	810	810	33	38	6.3	20.0	3.3
12...	810	810	39	42	6.3	19.0	3.1
12...	810	810	46	43	6.3	17.5	3.0
12...	810	810	52	47	6.3	14.0	2.7
12...	810	810	59	48	6.3	12.0	2.8

07360500 LAKE GREESON NEAR MURFREESBORO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
JUL							
12...	810	810	66	49	6.3	11.5	3.4
12...	810	810	72	50	6.3	10.5	3.7
12...	810	810	79	50	6.3	10.0	3.8
12...	810	810	85	52	6.3	9.0	3.6
12...	810	810	92	52	6.3	8.5	3.4
12...	810	810	98	52	6.3	8.0	2.6
12...	810	810	105	52	6.3	8.0	3.2
12...	810	810	112	54	6.3	8.0	3.3
12...	810	810	118	54	6.3	7.0	2.6
12...	810	810	125	56	6.3	7.0	1.5
12...	810	810	131	64	6.3	7.0	.2
12...	810	810	138	73	6.3	7.0	.1
AUG							
16...	810	810	.0	32	7.2	28.0	7.7
16...	810	810	7.0	33	7.2	28.0	7.7
16...	810	810	13	35	7.2	28.0	7.6
16...	810	810	20	36	7.2	27.5	6.9
16...	810	810	26	38	6.3	25.5	2.6
16...	810	810	33	37	6.3	21.0	.2
16...	810	810	39	39	6.3	19.0	.4
16...	810	810	46	42	6.3	17.5	.3
16...	810	810	52	46	6.3	15.0	.3
16...	810	810	59	47	6.3	13.5	.3
16...	810	810	66	48	6.3	12.0	.8
16...	810	810	72	50	6.3	10.5	.8
16...	810	810	79	50	6.3	10.0	.6
16...	810	810	85	50	6.3	9.0	.5
16...	810	810	92	51	6.3	8.5	1.2
16...	810	810	98	51	6.3	8.0	2.0
16...	810	810	105	51	6.3	8.0	2.1
16...	810	810	112	54	6.3	7.5	.8
16...	810	810	118	69	6.3	7.5	.1
16...	810	810	125	99	6.3	7.5	.1
16...	810	810	131	152	6.7	7.5	.1

07360501 LITTLE MISSOURI RIVER AT NARROWS DAM, NEAR MURFREESBORO, AR

LOCATION.--Lat 34°08'54", long 93°42'54" (revised), in NW¼ sec.18, T.7 S., R.25 W., Pike County, in powerhouse at Narrows Dam, 6.5 mi (10.5 km) northwest of Murfreesboro, 9.5 mi (15.3 km) upstream from Muddy Fork Creek, and at mile 105.5 (169.7 km).

DRAINAGE AREA.--237 mi^2 (614 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1975 in reports of Geological Survey. January 1946 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to June 18, 1947, water-stage recorder at damsite and June 18, 1947, to Dec. 21, 1951, water-stage recorder at site 2,700 ft (823 m) downstream, both at datum 400.81 ft (122.167 m) above mean sea level.

REMARKS.--Discharge computed from flowmeter and estimated leakage. Leakage was not included in published flows prior to Jan. 1, 1954. Flow completely regulated by Lake Greeson since Nov. 30, 1949 (see station 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--29 years, 415 ft^3/s (11.8 m^3/s), 300,700 acre-ft/yr (371 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge since power generation began May 27, 1950, 5,210 ft^3/s (148 m^3/s) June 2, 1957; minimum daily, 10 ft^3/s (0.28 m^3/s) at times, estimated leakage.

EXTREMES FOR WATER YEAR 1975.--Maximum daily discharge, 2,760 ft^3/s (78.2 m^3/s) Dec. 11; minimum daily, 15 ft^3/s (0.42 m^3/s) at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	487	936	932	602	15	335	1870	872	15	15	15	1110
2	615	272	838	1510	948	15	1940	774	15	15	15	1200
3	790	15	1750	390	768	1820	984	640	15	15	15	1260
4	832	1200	1800	15	1010	2000	15	15	15	15	15	1130
5	15	1510	1850	15	1090	1400	15	942	15	15	15	1240
6	623	1850	1450	755	1620	768	15	1670	258	15	942	15
7	876	1730	929	188	1790	200	1860	1530	15	742	739	15
8	186	1440	877	15	796	15	1860	221	15	51	15	15
9	15	193	1720	15	15	15	1860	374	15	936	15	1430
10	830	15	1900	15	1570	932	1760	15	805	15	15	1150
11	15	1070	2760	15	15	948	1740	15	1060	15	1090	1160
12	363	805	1830	15	659	898	15	511	750	2250	1040	15
13	15	1300	1850	1880	2640	1660	15	122	1200	15	876	15
14	15	1760	1600	1650	2480	1220	1040	15	1160	15	990	15
15	15	1780	440	15	599	358	710	15	1170	15	1270	15
16	15	1180	1560	15	1290	155	1170	15	467	1050	1140	15
17	444	50	1700	15	1020	1420	15	15	15	928	1040	15
18	15	1560	1510	15	920	446	1050	15	15	918	1340	15
19	15	1210	1560	475	509	520	15	1370	290	15	1030	942
20	15	562	1630	1030	716	324	15	1180	963	15	423	15
21	110	1110	1320	923	15	1350	804	1120	15	204	654	15
22	964	15	15	15	989	1360	15	1190	15	420	1030	15
23	929	15	1200	15	666	500	15	383	15	730	15	15
24	15	984	15	915	954	1570	1140	15	533	15	15	15
25	15	949	15	15	306	1700	1120	15	15	15	607	15
26	15	931	1130	15	389	912	457	15	15	15	977	15
27	15	1780	1540	15	398	470	15	404	15	15	1120	15
28	15	506	1520	458	15	1420	15	15	15	15	1290	15
29	321	1630	1460	311	---	941	944	15	74	63	789	201
30	816	1030	1440	538	---	827	577	15	15	2030	15	395
31	1610	---	1240	615	---	1710	---	15	---	15	397	---
TOTAL	11021	29388	41381	12480	24202	28209	23066	13528	9000	10607	18949	11503
MEAN	356	980	1335	403	864	910	769	436	300	342	611	383
MAX	1610	1850	2760	1880	2640	2000	1940	1670	1200	2250	1340	1430
MIN	15	15	15	15	15	15	15	15	15	15	15	15
AC-FT	21860	58290	82080	24750	48000	55950	45750	26830	17850	21040	37590	22820

CAL YR 1974 TOTAL 269135 MEAN 737 MAX 2760 MIN 15 AC-FT 533800
WTR YR 1975 TOTAL 233334 MEAN 639 MAX 2760 MIN 15 AC-FT 462800

07361000 LITTLE MISSOURI RIVER NEAR MURFREESBORO, AR

LOCATION.--Lat 34°02'55", long 93°43'12", in NE¼NE¼ sec.24, T.8 S., R.26 W., Pike County, near right bank on downstream side of bridge on State Highway 27, 1.8 mi (2.9 km) downstream from Muddy Fork Creek, 2.0 mi (3.2 km) southwest of Murfreesboro, 4.6 mi (7.4 km) upstream from Prairie Creek, 11.4 mi (18.3 km) downstream from Lake Greeson, and at mile 94.1 (151.4 km).

DRAINAGE AREA.--380 mi^2 (984 km^2).

PERIOD OF RECORD.--October and November 1927 and January 1928 (fragmentary), February 1928 to September 1931, July 1937 to September 1975.

REVISED RECORDS.--WSP 1007: 1938, 1941.

GAGE.--Water-stage recorder. Datum of gage is 324.28 ft (98.841 m) above mean sea level. Prior to Sept. 30, 1931, nonrecording gage at site 100 ft (30 m) upstream at present datum. July 10, 1937, to Nov. 10, 1938, nonrecording gage at present site and datum.

REMARKS.--Some regulation by Lake Greeson 11.4 mi (18.3 km) upstream since November 1949 (see station 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--41 years (1928-31, 1937-75), 631 ft^3/s (17.9 m^3/s), 457,200 acre-ft/yr (564 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft^3/s (3,400 m^3/s) Mar. 30, 1945, gage height, 19.84 ft (6.047 m), from rating curve extended above 38,000 ft^3/s (1,080 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 2.9 ft^3/s (0.082 m^3/s) Sept. 1, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1927 reached a stage of about 21 ft (6.4 m) from information by State Highway Department.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 17,800 ft^3/s (504 m^3/s) Feb. 1, gage height, 13.00 ft (3.962 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Sept. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	3000	1740	713	5070	128	2390	1130	64	128	52	774
2	920	952	1240	1960	4520	350	2180	862	54	86	416	1180
3	725	660	1920	1440	2720	1120	1620	6610	48	68	40	1180
4	888	2000	2080	488	2020	2140	210	1470	46	59	58	1310
5	162	2520	2170	328	1970	1810	158	1130	39	53	44	998
6	250	2170	5310	842	1910	952	132	1640	39	46	214	388
7	692	2170	2170	416	2450	116	1250	2400	2700	264	836	41
8	595	2000	1580	223	1120	191	2240	998	2160	191	768	30
9	72	628	1920	184	752	76	2300	696	3410	542	47	449
10	330	3280	2170	356	1270	1000	1990	328	2120	194	36	945
11	268	2900	3000	268	576	1100	1970	191	1900	54	272	990
12	90	1700	2420	180	205	1250	400	290	1530	1740	952	542
13	215	1580	2260	1240	2890	2180	128	339	1060	366	746	38
14	50	2080	1870	2160	2980	2460	945	174	1880	47	836	24
15	42	2080	985	405	581	1010	892	112	3090	34	1240	25
16	42	1530	1320	140	1880	878	713	94	1440	236	1040	29
17	268	595	1700	112	1290	1480	548	77	504	930	908	28
18	72	1400	1490	112	990	2480	768	70	272	915	1330	21
19	38	1580	1400	241	691	1260	268	432	184	210	975	112
20	32	952	1450	1190	713	768	100	1160	740	38	848	388
21	72	985	1530	915	138	1080	488	1400	564	636	416	32
22	485	352	268	120	532	1780	145	1230	102	702	900	23
23	920	145	628	86	1220	762	76	702	202	548	236	18
24	215	6400	485	564	1320	1670	400	140	356	378	43	15
25	35	2260	180	228	735	1900	1460	76	344	62	268	10
26	30	1620	985	98	460	1060	272	68	92	114	350	64
27	25	1450	1360	82	537	2060	295	202	76	70	1030	13
28	285	1210	1450	361	438	4650	740	198	66	104	1160	21
29	1280	1790	1700	286	---	4340	1070	128	218	77	1140	17
30	1150	3380	1790	388	---	1960	1530	90	586	1540	180	132
31	3280	---	1920	915	---	2070	---	74	---	366	60	---
TOTAL	13958	55369	52491	17041	41978	46081	27678	24511	25886	10798	17441	9837
MEAN	450	1846	1693	550	1499	1486	923	791	863	348	563	328
MAX	3280	6400	5310	2160	5070	4650	2390	6610	3410	1740	1330	1310
MIN	25	145	180	82	138	76	76	68	39	34	36	10
AC-FT	27690	109800	104100	33800	83260	91400	54900	48620	51340	21420	34590	19510

CAL YR 1974 TOTAL 383642 MEAN 1051 MAX 14400 MIN 18 AC-FT 761000
WTR YR 1975 TOTAL 343069 MEAN 940 MAX 6610 MIN 10 AC-FT 680500

07361500 ANTOINE RIVER AT ANTOINE, AR

LOCATION.--Lat 34°02'20", long 93°25'05", in NW¼NW¼ sec.24, T.8 S., R.23 W., Pike County, near right bank on downstream side of bridge on State Highway 26 at Antoine, 1.6 mi (2.6 km) downstream from Brushy Creek, 1.9 mi (3.1 km) downstream from Suck Creek, and at mile 8.5 (13.7 km).

DRAINAGE AREA.--181 mi^2 (469 km^2).

PERIOD OF RECORD.--October 1954 to current year. Gage-height records collected in this vicinity since November 1950 (published as "Antoine Creek") are contained in reports of Corps of Engineers.

REVISED RECORDS.--WSP 1511: 1955(M). WRD Ark. 1973: 1972.

GAGE.--Water-stage recorder. Datum of gage is 229.33 ft (69.900 m) above mean sea level. Prior to Oct. 22, 1954, at site 75 ft (23 m) upstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--22 years, 262 ft^3/s (7.42 m^3/s), 19.66 in/yr (499 mm/yr), 189,800 acre-ft/yr (234 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,500 ft^3/s (1,005 m^3/s) May 2, 1958, gage height, 28.75 ft (8.763 m); no flow at times in 1956, 1964, 1969, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1905 reached a stage of 29.7 ft (9.05 m), from information by State Highway Department, discharge, 40,000 ft^3/s (1,133 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft^3/s (170 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 8	1900	*10,400	295	21.64	6.596
June 25	1030	6,480	184	18.65	5.685

Minimum daily discharge, 0.30 ft^3/s (0.008 m^3/s) Oct. 25-27.

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	1.5	.40	22	100	54	82	430	47	104	213	2.3	1.7
2	1.9	.40	22	78	48	71	336	41	195	197	2.1	2.7
3	2.3	.70	28	90	44	64	274	33	100	168	1.8	5.2
4	2.0	1.1	28	57	42	57	230	27	67	794	1.6	2.6
5	1.8	1.9	26	40	174	104	195	23	50	545	1.4	1.9
6	1.7	1.3	30	34	568	120	155	222	210	312	1.4	1.8
7	1.6	1.1	49	32	340	76	120	348	313	215	1.5	1.8
8	1.5	1.0	41	29	256	5040	98	181	168	152	1.4	5.1
9	1.3	.90	25	24	217	4310	81	104	98	104	1.3	4.3
10	1.2	.90	18	20	171	1230	67	74	67	81	1.1	2.8
11	1.2	1.1	14	21	125	777	58	70	52	65	.98	2.0
12	1.0	1.0	12	22	88	628	54	68	41	53	.83	1.8
13	.90	.90	10	23	71	466	52	987	31	43	.85	1.6
14	.80	.80	9.3	21	64	461	50	630	25	35	.94	1.9
15	.80	.80	8.7	20	57	414	48	554	21	30	1.4	2.2
16	.70	.80	8.0	18	54	350	46	551	30	27	1.8	1.8
17	.60	.70	7.6	17	208	285	39	388	22	24	1.7	2.3
18	.60	.70	17	16	1700	256	37	285	1090	23	1.7	5.5
19	.50	.90	15	16	673	234	48	213	895	23	1.5	16
20	.50	1.5	12	25	468	226	211	155	384	20	1.4	12
21	.50	2.6	9.9	67	536	211	269	109	224	16	1.3	11
22	.40	2.6	8.7	43	444	141	136	81	155	13	1.2	8.0
23	.40	2.0	7.6	29	340	98	82	64	120	11	1.1	6.0
24	.40	1.5	6.8	21	290	82	70	57	94	10	1.2	4.2
25	.30	2.3	16	283	250	96	220	68	3870	9.4	1.0	3.4
26	.30	2.7	25	372	211	96	138	50	1280	6.8	1.0	3.1
27	.30	4.0	60	248	168	88	86	251	1140	5.6	.92	4.3
28	.80	6.1	65	179	125	90	67	240	570	4.2	.81	5.7
29	.70	8.0	404	117	100	680	57	130	422	3.7	1.2	3.7
30	.60	16	372	81	---	1020	50	81	285	3.2	1.1	3.1
31	.50	---	210	64	---	592	---	62	---	2.7	1.2	---
TOTAL	29.60	66.70	1587.6	2207	7886	18445	3804	6194	12123	3209.6	41.03	129.5
MEAN	.95	2.22	51.2	71.2	272	595	127	200	404	104	1.32	4.32
MAX	2.3	16	404	372	1700	5040	430	987	3870	794	2.3	16
MIN	.30	.40	6.8	16	42	57	37	23	21	2.7	.81	1.6
CFSM	.005	.01	.28	.39	1.50	3.29	.70	1.10	2.23	.57	.007	.02
IN.	.006	.01	.33	.45	1.62	3.79	.78	1.27	2.49	.66	.008	.03
AC-FT	59	132	3150	4380	15640	36590	7550	12290	24050	6370	81	257

CAL YR 1975 TOTAL 99651.90 MEAN 273 MAX 6720 MIN .30 CFSM 1.51 IN 20.48 AC-FT 197700
WTR YR 1976 TOTAL 55723.03 MEAN 152 MAX 5040 MIN .30 CFSM .84 IN 11.45 AC-FT 110500

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, AR

LOCATION.--Lat 33°52'32", long 93°18'16", in NE¼ sec.13, T.10 S., R.22 W., Nevada County, on downstream side of bridge on U.S. Highway 67, 1.5 mi (2.4 km) northeast of Boughton, 5.9 mi (9.5 km) downstream from Howard Creek 10.2 mi (16.4 km) downstream from Antoine River, and at mile 46.8 (75.3 km).

DRAINAGE AREA.--1,068 mi^2 (2,766 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1975 in reports of Geological Survey. October 1937 to September 1942 and October 1945 to date in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1968: 1966-67.

GAGE.--Water-stage recorder. Datum of gage is 182.13 ft (55.513 m) above mean sea level. Prior to Mar. 19, 1947, nonrecording gage at present site and datum.

REMARKS.--Some regulation by Lake Greeson, 58.7 mi (94.4 km) upstream, since November 1949 (see station 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--35 years (1937-42, 1945-75), 1,548 ft^3/s (43.8 m^3/s), 1,122,000 acre-ft/yr (1,380 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft^3/s (1,870 m^3/s) May 3, 1958; maximum gage height, 23.29 ft (7.099 m) May 15, 1968; minimum discharge, 10 ft^3/s (0.28 m^3/s) Sept. 20-30, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1905, 27.2 ft (8.29 m) Mar. 31, 1945, discharge, 111,000 ft^3/s (3,140 m^3/s), from rating curve extended above 62,000 ft^3/s (1,760 m^3/s), from records of Corps of Engineers.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 33,000 ft^3/s (935 m^3/s) Feb. 3, gage height, 21.16 ft (6.450 m); minimum, 44 ft^3/s (1.25 m^3/s) Sept. 30, gage height, 2.52 (0.768 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	9280	16200	5110	5110	985	4060	4740	368	700	550	158
2	1220	16600	9680	3310	19900	762	3840	3980	312	340	194	740
3	1370	10000	4350	5560	30000	830	3540	5780	252	232	149	1120
4	1270	4500	3750	5940	15800	1780	2710	21000	214	179	185	1240
5	1370	5550	3600	3160	8040	1730	1120	14700	176	146	158	1240
6	695	5180	5920	2040	6080	2260	880	6010	167	128	135	1150
7	645	4050	12700	2340	4810	1440	762	4140	808	109	340	620
8	1120	3520	14200	1760	4440	620	2180	4510	6080	260	740	185
9	970	3080	6190	1500	3080	602	4210	2640	8960	463	463	118
10	430	3680	4050	2260	2040	1180	4580	2260	14000	720	140	550
11	670	10700	4420	3080	2710	2780	3610	1260	10600	445	88	1070
12	695	15100	5920	1960	1700	3760	3160	1070	5040	204	330	1300
13	324	8200	4800	1600	1440	5780	1300	1010	2780	1600	930	880
14	545	4050	3980	2640	3610	7920	1100	985	2180	568	830	235
15	400	3600	3520	3240	3680	7920	2340	930	3840	176	855	132
16	440	3300	2420	1540	1660	4280	1960	700	5340	111	1200	113
17	324	2780	2620	1010	3080	4140	1660	550	3310	305	1120	103
18	480	1920	2850	905	2560	5180	1240	438	1420	785	2340	101
19	380	2550	2620	880	1960	7590	1440	375	905	830	3240	101
20	217	2620	2550	1120	1440	4580	880	855	720	340	1960	294
21	175	1980	2480	1900	1440	2860	568	2040	1150	164	1180	568
22	155	1920	2360	1700	808	2860	930	2260	830	532	700	164
23	580	1210	1210	740	1700	3080	620	1820	445	720	1010	95
24	1100	6660	1540	620	3240	2710	438	1040	498	680	550	77
25	605	19100	1920	1900	2780	3160	1150	532	550	498	200	65
26	208	21900	1650	905	1730	2940	3380	414	585	207	326	60
27	155	7800	2360	620	1320	2560	1820	431	312	218	620	53
28	649	3820	2850	602	1240	6080	1200	602	239	288	1070	50
29	6480	3900	3150	880	---	9110	2940	905	210	368	1200	48
30	9010	10200	3900	785	---	11700	3310	640	602	263	1070	47
31	6280	---	4650	1120	---	5940	---	480	---	1500	463	---
TOTAL	40332	198750	144410	62727	137398	119119	62928	89097	72893	14079	24336	12677
MEAN	1301	6625	4658	2023	4907	3843	2098	2874	2430	454	785	423
MAX	9010	21900	16200	5940	30000	11700	4580	21000	14000	1600	3240	1300
MIN	155	1210	1210	602	808	602	438	375	167	109	88	47
AC-FT	80000	394200	286400	124400	272500	236300	124800	176700	144600	27930	48270	25140

CAL YR 1974 TOTAL 1006230 MEAN 2757 MAX 45500 MIN 39 AC-FT 1996000
WTR YR 1975 TOTAL 978746 MEAN 2681 MAX 30000 MIN 47 AC-FT 1941000

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-55, October 1973 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1947 to September 1955.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
14...	9827	9827	39	7.0	30.0	21.0	30	20	8.0	89	.5	600
NOV												
18...	9827	9827	48	7.1	22.0	14.0	30	9	9.3	89	.6	240
DEC												
17...	9827	9827	72	7.1	8.0	11.0	20	10	10.0	90	1.1	420
JAN												
27...	9827	9827	114	7.5	11.0	7.0	100	70	10.1	83	1.3	2000
FEB												
24...	9827	9827	78	7.2	27.0	11.0	60	30	10.4	94	1.2	320
MAR												
23...	9827	9827	56	7.2	27.0	15.0	45	30	9.6	94	1.2	420
APR												
26...	9827	9827	96	7.1	22.0	18.0	50	20	8.4	88	1.1	350
MAY												
25...	9827	9827	84	7.4	28.0	23.0	50	<25	8.4	97	1.3	<17
JUN												
29...	9827	9827	64	7.6	37.0	27.0	60	50	8.0	99	.6	1600
JUL												
28...	9827	9827	41	7.0	39.0	23.0	20	20	5.8	67	3.2	350
AUG												
25...	9827	9827	78	7.3	36.0	26.0	45	15	8.3	101	1.2	400
SEP												
22...	9827	9827	81	7.2	33.0	23.0	30	15	7.9	91	.9	--

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
14...	150	290	--	--	--	--	--	--	--	--	--	--
NOV												
18...	49	60	16	14	5.0	12	1.0	3.2	.1	2	0	2
DEC												
17...	290	--	--	--	--	--	--	--	--	--	--	--
JAN												
27...	930	3400	--	--	--	--	--	--	--	--	--	--
FEB												
24...	150	70	28	--	10	24	1.0	3.4	1.5	--	0	--
MAR												
23...	230	150	--	--	--	--	--	--	--	--	--	--
APR												
26...	100	75	--	--	--	--	--	--	--	--	--	--
MAY												
25...	20	<4	34	8	10	24	2.0	1.7	1.5	32	0	26
JUN												
29...	140	150	--	--	--	--	--	--	--	--	--	--
JUL												
28...	190	--	16	5	3.0	8	2.0	2.4	.9	14	0	11
AUG												
25...	<7	--	--	--	--	--	--	--	--	--	--	--
SEP												
22...	--	--	--	--	--	--	--	--	--	--	--	--

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT 14...	--	9.0	4.0	41	54	97	.16	.03	--	--	--	--
NOV 18...	.3	6.0	4.0	37	10	47	.20	.01	<3	<10	0	<10
DEC 17...	--	15	5.5	56	44	100	.36	.04	--	--	--	--
JAN 27...	--	18	8.5	105	50	155	.36	.09	--	--	--	--
FEB 24...	--	8.0	6.0	77	20	97	.52	.08	<3	<10	<3	<10
MAR 23...	--	3.0	4.5	38	50	88	.24	.60	--	--	--	--
APR 26...	--	--	5.5	70	14	84	.40	.07	--	--	--	--
MAY 25...	2.0	4.0	5.0	68	17	85	.22	.04	<3	<10	<3	<10
JUN 29...	--	7.0	4.5	58	78	136	.19	.03	--	--	--	--
JUL 28...	2.2	1.0	4.0	26	23	49	.24	.06	<3	<10	<3	<10
AUG 25...	--	6.0	5.5	49	4	53	.19	.02	--	--	--	--
SEP 22...	--	8.0	6.0	59	19	78	.31	.05	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT 14...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 18...	670	40	100	<10	.00	.00	.00	.00	.00	.00	.00	<1
DEC 17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	1300	10	130	<10	--	--	--	--	--	--	--	--
MAR 23...	--	--	--	--	--	--	--	--	--	--	--	--
APR 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	1300	60	120	10	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 28...	640	<10	160	<10	--	--	--	--	--	--	--	--
AUG 25...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 22...	--	--	--	--	--	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR

LOCATION.--Lat 33°35'47", long 92°49'05", in SE¼ sec.14, T.13 S., R.17 W., Ouachita County, at bridge on U.S. Highway 79 at Camden, 3.4 mi (5.5 km) downstream from Ecore Fabre Bayou, 6.2 mi (10.0 km) upstream from Two Bayou Creek, and at mile 354.1 (569.7 km).

DRAINAGE AREA.--5,391 mi^2 (13,960 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1928 to September 1960 and October 1965 to September 1975 in reports of Geological Survey. October 1929 to date in reports of Corps of Engineers. Monthly discharge only October 1929 to September 1960 published in WSP 1311 and WSP 1731. Gage heights collected in this vicinity since 1885 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 71.69 ft (21.851 m) above mean sea level. Aug. 8, 1928, to July 10, 1935, and July 11, 1935, to Jan. 4, 1945, nonrecording gage at present site and datum. Jan. 5, 1945, to Oct. 27, 1947, nonrecording gage at site 0.4 mi (0.6 km) downstream at present datum. Aug. 10, 1928, to May 31, 1949, supplementary nonrecording gage, 4.5 mi (7.2 km) upstream. Since Jan. 1, 1957, auxiliary water-stage recorder 3.2 mi (5.1 km) downstream.

REMARKS.--Flow regulated by Lake Catherine, 102 mi (164 km) upstream, since 1925 (see station 07359000), by Lake Hamilton since 1932 (see station 07358500), by Lake Greeson since 1949 (see station 07360500), by Lake Ouachita since 1952 (see station 07357500), and by DeGray Lake since August 1969 (see station 07359900).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--47 years, 7,562 ft^3/s (214 m^3/s), 5,479,000 acre-ft/yr (6,760 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 243,000 ft^3/s (6,880 m^3/s) Apr. 3, 1945, gage height, 44.82 ft (13.661 m); minimum, 125 ft^3/s (3.54 m^3/s) Sept. 16, 24-26, 1943.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 52,000 ft^3/s (1,470 m^3/s) Feb. 7, gage height, 34.85 ft (10.622 m); minimum, 872 ft^3/s (24.7 m^3/s) Sept. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19300	18900	35600	15200	8330	10200	32600	12700	4510	1710	1620	2800
2	11100	22000	34600	17200	14900	8320	33600	14200	3060	2640	2660	1190
3	7600	22900	35300	15400	21700	6370	31100	13800	2530	2690	1600	1400
4	5210	21800	36400	19300	31600	4960	28000	19300	4640	1910	1640	5170
5	3100	21200	35300	21500	42200	7120	24500	28400	4300	3130	2990	5130
6	2980	23200	30400	22100	51700	7960	18400	35400	3460	1790	2340	4250
7	3690	20700	27500	18000	51900	9140	15000	42200	4260	2620	1320	3260
8	2660	16700	27300	14500	47300	7900	12400	42900	8860	1540	1010	3040
9	4330	12800	29000	14200	38000	6640	13700	40300	11500	1820	2000	1270
10	4850	10900	29700	11700	28300	6440	16700	36400	14500	2760	2180	1230
11	3640	12200	31200	18000	23100	8440	16800	32000	19900	2130	1190	1730
12	4240	21000	29400	22800	15700	12100	16300	27100	24200	1940	1010	3440
13	5020	25900	26600	23600	11600	15800	16000	20400	23800	1100	1010	3310
14	3500	27300	25300	22800	9070	22000	14800	17200	21400	926	4500	4160
15	2480	28600	24500	20100	11300	26000	12300	15200	15300	2550	4620	2060
16	4160	27800	23100	18000	10800	29400	13800	19000	11700	1250	3400	1390
17	4450	25300	19300	15500	10300	29300	10100	21800	11600	1040	4120	1230
18	5060	18700	18400	12600	10900	27200	8260	19400	13900	1080	4670	2100
19	4440	14000	17200	14300	12000	25400	8930	13700	9430	1830	7620	1440
20	6480	15600	14000	9850	11500	26900	6880	8940	7550	1910	11300	1370
21	5980	15500	9700	6840	9330	28400	6060	11000	6180	1860	11100	1660
22	4980	13800	11200	6030	8110	25900	3580	12400	5980	1130	8260	2900
23	6370	12800	10800	6100	8150	20000	3640	15100	4260	2490	6010	1670
24	5280	12800	6720	4560	11100	15700	4930	14200	2600	2820	5490	1300
25	3220	20200	6280	4180	14700	14200	5520	12900	2590	3030	4350	1190
26	4470	28200	9830	5440	14600	12900	7590	6450	2590	2680	3850	1060
27	4270	34600	9120	6840	13100	11900	11800	4850	2600	2460	4250	1000
28	2800	39000	11000	4840	12100	11900	8950	4520	3470	1880	4380	942
29	2530	40600	12900	6970	---	18600	9100	4920	2680	2260	4890	872
30	12600	37400	13400	6600	---	24400	10600	6130	1920	3060	4630	957
31	17900	---	12600	4740	---	31200	---	5640	---	3130	4770	---
TOTAL	178690	662400	663650	409790	553390	512690	421940	578450	255270	65166	124780	64521
MEAN	5764	22080	21410	13220	19760	16540	14060	18660	8509	2102	4025	2151
MAX	19300	40600	36400	23600	51900	31200	33600	42900	24200	3130	11300	5170
MIN	2480	10900	6280	4180	8110	4960	3580	4520	1920	926	1010	872
AC-FT	354400	1314000	1316000	812800	1098000	1017000	836900	1147000	506300	129300	247500	128000

CAL YR 1974 TOTAL 4931328 MEAN 13510 MAX 136000 MIN 924 AC-FT 9781000
WTR YR 1975 TOTAL 4490737 MEAN 12300 MAX 51900 MIN 872 AC-FT 8907000

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-52, October 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)
OCT												
28...	1028	1028	1170	78	7.0	17.0	12	840	--	24	6	7.0
NOV												
28...	1028	1028	5120	74	6.9	9.5	10	88	140	23	7	7.7
DEC												
22...	1028	1028	2890	81	7.1	7.0	15	833	880	25	9	8.0
JAN												
29...	1028	1028	6090	130	7.2	7.5	30	300	440	34	14	10
MAR												
03...	1028	1028	2160	100	6.9	18.0	15	833	820	29	12	8.5
APR												
27...	1028	1028	2650	111	6.5	19.5	10	825	84	32	14	10
JUN												
16...	1028	1028	1770	126	7.0	27.0	25	840	130	34	20	11
JUL												
26...	1028	1028	2790	93	7.1	25.5	15	812	810	26	9	7.9
AUG												
18...	1028	1028	2840	87	6.8	28.0	15	815	820	28	11	8.1
SEP												
14...	1028	1028	2120	149	7.0	24.0	10	855	836	35	20	11

DATE	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DISSOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
OCT											
28...	1.5	5.8	33	.5	1.3	22	0	18	3.5	6.3	6.3
NOV											
28...	.9	3.5	24	.3	1.2	19	0	16	3.8	5.2	6.3
DEC											
22...	1.2	3.5	22	.3	1.1	19	0	16	2.4	8.9	7.1
JAN											
29...	2.1	7.4	31	.6	2.3	24	0	20	2.4	9.8	12
MAR											
03...	1.9	8.1	36	.7	1.5	21	0	17	4.2	10	12
APR											
27...	1.8	5.8	27	.4	1.5	23	0	19	12	8.5	13
JUN											
16...	1.6	10	37	.7	2.0	17	0	14	2.7	18	13
JUL											
26...	1.5	6.2	33	.5	1.6	21	0	17	2.7	9.4	12
AUG											
18...	1.9	6.7	33	.6	1.7	21	0	17	5.3	11	8.1
SEP											
14...	1.9	12	40	.9	2.9	19	0	16	3.0	21	17

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L) (00950)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)
OCT											
28...	.2	4.3	49	44	.07	155	.15	.76	.91	4.0	.00
NOV											
28...	.1	4.5	44	39	.06	608	.11	.30	.41	1.8	.02
DEC											
22...	.1	3.8	48	43	.07	375	.09	.28	.37	1.6	.04
JAN											
29...	.2	5.7	72	62	.10	1180	.17	.77	.94	4.2	.10
MAR											
03...	.1	6.4	64	59	.09	373	.33	.58	.91	4.0	.06
APR											
27...	.1	3.8	67	56	.09	479	.27	.30	.57	2.5	.03
JUN											
16...	.3	5.1	76	69	.10	363	.59	.40	.99	4.4	.05
JUL											
26...	.1	4.0	50	53	.07	377	.24	.26	.50	2.2	.06
AUG											
18...	.2	2.9	51	51	.07	391	.30	.47	.77	3.4	.05
SEP											
14...	.1	3.2	91	78	.12	521	1.0	.23	1.2	5.4	.03

DATE	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL COBALT (CO) (UG/L) (01037)	SUS-PENDED COBALT (CO) (UG/L) (01036)
OCT											
28...	1	1	0	0	0	0	10	10	0	<50	<50
JAN											
29...	0	0	0	--	--	2	--	--	0	--	--
APR											
27...	1	1	0	<10	<9	1	10	10	0	<50	<50
JUL											
26...	1	--	1	<10	--	1	0	--	0	<50	--

DATE	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT											
28...	0	0	0	0	1900	150	<100	<100	0	210	140
JAN											
29...	0	--	--	8	--	100	--	--	1	--	--
APR											
27...	0	10	5	5	1000	210	<100	<100	0	140	60
JUL											
26...	0	<10	--	2	4100	80	<100	--	3	80	--

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS-PENDED MERCURY (HG) (UG/L) (71895)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	SUS-PENDED SELE-NIUM (SE) (UG/L) (01146)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
OCT										
28...	70	.0	.0	.0	0	0	0	50	10	40
JAN										
29...	80	.0	.0	.0	0	0	0	--	--	10
APR										
27...	80	.1	.0	.1	0	0	0	400	400	0
JUL										
26...	50	.0	--	.0	0	--	0	40	--	0

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MATERIAL (UG/KG) (39333)	TOTAL ATRAZINE (UG/L) (39630)	TOTAL CHLORDANE (UG/L) (39350)	CHLORDANE IN BOTTOM MATERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MATERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MATERIAL (UG/KG) (39368)
OCT										
28...	6.6	ND	ND	--	ND	ND	ND	ND	ND	ND
NOV										
28...	--	--	--	--	--	--	--	--	--	--
DEC										
22...	--	--	--	--	--	--	--	--	--	--
JAN										
29...	8.6	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
APR										
27...	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
16...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	.0	--	--	--	--	--	--	--	--	--
AUG										
18...	--	ND	--	ND	ND	--	ND	--	ND	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MATERIAL (UG/KG) (39373)	TOTAL DIAZINON (UG/L) (39570)	DIAZINON IN BOTTOM MATERIAL (UG/KG) (39571)	TOTAL DIELDRIN (UG/L) (39380)	DIELDRIN IN BOTTOM MATERIAL (UG/KG) (39383)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MATERIAL (UG/KG) (39393)	TOTAL ETHION (UG/L) (39398)	ETHION IN BOTTOM MATERIAL (UG/KG) (39399)
OCT										
28...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NOV										
28...	--	--	--	--	--	--	--	--	--	--
DEC										
22...	--	--	--	--	--	--	--	--	--	--
JAN										
29...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
APR										
27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
16...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	ND	--	ND	--	ND	--	ND	--	ND	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL HEPTACHLOR (UG/L) (39410)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG) (39413)	TOTAL HEPTACHLOR EPOXIDE (UG/L) (39420)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)	LINDANE IN BOTTOM MATERIAL (UG/KG) (39343)	TOTAL MALATHION (UG/L) (39530)	MALATHION IN BOTTOM MATERIAL (UG/KG) (39531)	TOTAL METHOXYCHLOR (UG/L) (39480)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG) (39481)
OCT										
28...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NOV										
28...	--	--	--	--	--	--	--	--	--	--
DEC										
22...	--	--	--	--	--	--	--	--	--	--
JAN										
29...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
APR										
27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
16...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	ND	--	ND	--	ND	--	ND	--	ND	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL METHYL PARATHION (UG/L) (39600)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG) (39601)	TOTAL METHYL TRITHION (UG/L) (39790)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG) (39791)	TOTAL PARATHION (UG/L) (39540)	PARATHION IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL((UG/L) (39025)	TOTAL TOXAPHENE (UG/L) (39400)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)
OCT										
28...	ND	ND	ND	ND	ND	ND	--	ND	ND	ND
NOV										
28...	--	--	--	--	--	--	--	--	--	--
DEC										
22...	--	--	--	--	--	--	--	--	--	--
JAN										
29...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
APR										
27...	ND	ND	ND	ND	ND	ND	--	ND	ND	ND
JUN										
16...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	ND	--	ND	--	ND	--	ND	ND	--	ND
SEP										
14...	--	--	--	--	--	--	--	--	--	--

DATE	TRITHION IN BOTTOM MATERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	2,4-D IN BOTTOM MATERIAL (UG/KG) (39731)	TOTAL 2,4,5-T (UG/L) (39740)	2,4,5-T IN BOTTOM MATERIAL (UG/KG) (39741)	TOTAL SILVEX (UG/L) (39760)	SILVEX IN BOTTOM MATERIAL (UG/KG) (39761)	SUSPENDED SEDIMENT (MG/L) (80154)	SUSPENDED SEDIMENT DISCHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
28...	ND	--	--	--	--	--	--	122	385	37
NOV										
28...	--	--	--	--	--	--	--	18	249	86
DEC										
22...	--	--	--	--	--	--	--	340	2650	100
JAN										
29...	--	--	--	--	--	--	--	42	691	100
MAR										
03...	--	--	--	--	--	--	--	31	181	92
APR										
27...	ND	ND	ND	ND	ND	ND	ND	22	157	89
JUN										
16...	--	--	--	--	--	--	--	38	182	95
JUL										
26...	--	--	--	--	--	--	--	34	256	86
AUG										
18...	--	ND	--	ND	--	ND	--	43	330	94
SEP										
14...	--	--	--	--	--	--	--	22	126	90

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCT. 28, 1975
1115 HOURS

IDENTIFICATION OF PHYTOPLANKTON

960 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...SCENEDESMACEAE			
	....SCENEDESMUS		48	5
		TOTALS	48	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		24	2
	....MELOSIRA		96	10
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		24	2
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		48	5
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		190	20
	....STAURONEIS		24	2
	...NITZSCHIACEAE			
D	....NITZSCHIA		430	45
	...SURIRELLACEAE			
	....SURIRELLA		72	7
		TOTALS	910	93

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.286
CLASS	0.286
ORDER	0.820
FAMILY	2.223
GENERA	2.427

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

NOV. 28, 1975
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

640 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
L	....ANKISTRODESMUS			0
	...SCENEDESMACEAE			
D	....SCENEDESMUS		130	21
		TOTALS	130	21
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		98	15
D	....MELOSIRA		200	31
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		16	3
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		16	3
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		110	18
	....STAURONEIS		16	3
	...NITZSCHIACEAE			
	....NITZSCHIA		49	8
	...SURIRELLACEAE			
L	....CYMATOPLEURA			0
		TOTALS	510	81

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.732
CLASS 0.732
ORDER 1.512
FAMILY 2.008
GENERA 2.543

DEC. 22, 1975
1200 HOURS

IDENTIFICATION OF PHYTOPLANKTON

230 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT	
	CHRYSOPHYTA				
	.BACILLARIOPHYCEAE	DIATOMS			
	..CENTRALES	CENTRIC			
	...COSCINODISCACEAE				
D	....MELOSIRA		58	25	
	..PENNALES	PENNATE			
	...EUNOTIACEAE				
L	....EUNOTIA			0	
	...GOMPHONEMATACEAE				
	....GOMPHONEMA		8	4	
	...NAVICULACEAE	NAVICULOID			
	....NAVICULA		8	4	
	...NITZSCHIACEAE				
	....NITZSCHIA		17	7	
	...TABELLARIACEAE				
D	....TABELLARIA		140	61	
		TOTALS	230	101	1.552=DIVERSITY

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.811
FAMILY 1.552
GENERA 1.552

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JAN. 29, 1976
1130 HOURS

IDENTIFICATION OF PHYTOPLANKTON

590 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
L	....TETRAEDRON			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		45	8
D	....MELOSIRA		140	23
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		68	12
	...EUNOTIACEAE			
L	....EUNOTIA			0
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		68	12
	...NAVICULACEAE	NAVICULOID		
	....GYROSIGMA		23	4
	....NAVICULA		68	12
	...NITZSCHIACEAE			
D	....NITZSCHIA		180	31
		TOTALS	590	102

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.890
FAMILY 2.181
GENERA 2.555

MAR. 3, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

140 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....MELOSIRA		31	21
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
D	....ACHNANTHES		31	21
L	....COCCONEIS			0
	...CYMBELLACEAE			
	....CYMBELLA		10	7
	...EUNOTIACEAE			
L	....EUNOTIA			0
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		10	7
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		10	7
	...NITZSCHIACEAE			
D	....NITZSCHIA		52	36
		TOTALS	140	99
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
L	....OSCILLATORIA			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.750
FAMILY 2.299
GENERA 2.299

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APR. 27, 1976
1215 HOURS

IDENTIFICATION OF PHYTOPLANKTON

490 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		10	2
	....OOCYSTIS		38	8
	...SCENEDESMACEAE			
	....SCENEDESMUS		38	8
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
	....COSMARIUM		10	2
		TOTALS	95	20
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		48	10
D	....MELOSIRA		110	22
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		10	2
	...FRAGILARIACEAE			
	....SYNEDRA		19	4
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		19	4
	...NAVICULACEAE	NAVICULOID		
	....GYROSIGMA		10	2
	....NAVICULA		19	4
	...NITZSCHIACEAE			
D	....NITZSCHIA		95	20
	...SURIRELLACEAE			
	....SURIRELLA		10	2
		TOTALS	330	70
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		57	12
		TOTALS	57	12

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.197
CLASS	1.197
ORDER	1.971
FAMILY	2.906
GENERA	3.312

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JUNE 16, 1976
0000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

490 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		7	1
	...SCENEDESMACEAE			
	....SCENEDESMUS		57	12
		TOTALS	65	13
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		14	3
D	....MELOSIRA		93	19
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		7	1
	...CYMBELLACEAE			
L	....CYMBELLA			0
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		79	16
	...NITZSCHIACEAE			
D	....NITZSCHIA		86	18
		TOTALS	280	57
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		140	29
		TOTALS	140	29

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	1.365
CLASS	1.365
ORDER	1.917
FAMILY	2.409
GENERA	2.534

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JULY 26, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

150 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
L	....CLOSTERIUM			0
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....MELOSIRA		27	18
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		7	5
	...FRAGILARIACEAE			
D	....SYNEDRA		80	55
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		20	14
	...NITZSCHIACEAE			
	....NITZSCHIA		13	9
		TOTALS	150	101

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.684
FAMILY 1.833
GENERA 1.833

AUG. 18, 1976
1045 HOURS

IDENTIFICATION OF PHYTOPLANKTON

830 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....OOCYSTIS		28	3
	...SCENEDESMACEAE			
	....SCENEDESMUS		99	12
		TOTALS	130	15
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		85	10
	..PENNALES	PENNATE		
	...GOMPHONEMATACEAE			
L	....GOMPHONEMA			0
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		42	5
	...NITZSCHIACEAE			
D	....NITZSCHIA		130	15
		TOTALS	250	30
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....AGMENELLUM		450	54
		TOTALS	450	54

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THEN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.415
CLASS 1.415
ORDER 1.695
FAMILY 1.977
GENERA 1.977

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SEP. 14, 1976
1230 HOURS

IDENTIFICATION OF PHYTOPLANKTON

460 CELLS/ML

	_ORGANISM__NAME_____	_COMMON__NAME_____	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
	....GYROSIGMA		5	1
	....NAVICULA		20	4
	...NITZSCHIACEAE			
	....HANTZSCHIA		10	2
	....NITZSCHIA		30	6
		TOTALS	65	13
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		400	86
		TOTALS	400	86

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.584
CLASS	0.584
ORDER	0.584
FAMILY	0.718
GENERA	0.827

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										72	94	113
2										70	99	133
3										73	86	107
4										59	101	80
5										78	100	100
6										70	118	122
7										61	128	106
8										61	129	104
9										61	117	136
10										67	96	108
11										80	93	137
12										84	120	142
13										94	143	144
14										95	175	144
15										88	129	151
16										90	119	154
17										72	112	163
18										92	81	163
19										101	89	155
20										93	79	127
21										104	70	104
22										110	---	120
23										73	92	141
24										72	105	147
25										86	91	136
26										93	89	114
27										100	120	128
28										112	108	108
29										83	95	115
30										104	71	139
31										99	92	---
MONTH										84	105	128

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										25.0	29.0	25.0
2										23.0	28.0	25.5
3										23.0	28.0	24.5
4										23.0	28.0	24.5
5										24.0	27.5	25.0
6										23.0	29.0	25.0
7										23.0	28.5	25.0
8										24.0	29.0	26.0
9										24.0	28.0	26.0
10										24.5	28.0	25.0
11										22.0	28.0	24.0
12										25.0	28.5	24.0
13										24.0	28.5	25.0
14										24.0	29.0	24.0
15										23.0	29.0	25.0
16										27.0	28.5	25.0
17										27.0	28.5	25.0
18										28.0	28.0	25.0
19										28.0	28.0	25.0
20										29.0	27.5	24.5
21										28.0	26.5	24.0
22										29.0	---	24.0
23										28.0	26.5	24.0
24										28.0	27.0	23.0
25										29.0	27.0	23.5
26										29.0	27.0	24.0
27										29.5	28.0	24.0
28										29.5	27.0	23.0
29										29.0	26.5	22.0
30										28.0	26.0	21.0
31										28.5	26.0	---
MONTH										26.0	28.0	24.5

07362100 SMACKOVER CREEK NEAR SMACKOVER, AR

LOCATION.--Lat 33°22'33", long 92°46'37", in NW¼SE¼ sec.32, T.15 S., R.16 W., Union County, near right bank on downstream side of bridge on State Highway 7, 0.1 mi (0.2 km) downstream from Camp Creek, 3.3 mi (5.3 km) northwest of Smackover, and at mile 23.0 (37.0 km).

DRAINAGE AREA.--377 mi^2 (976 km^2).

PERIOD OF RECORD.--October 1961 to current year. Gage-height records collected and occasional discharge measurements made by Corps of Engineers at this site since September 1938. Daily stages 1940 to date and results of discharge measurements 1947 to 1960 are published in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1967: 1965.

GAGE.--Water-stage recorder. Datum of gage is 97.56 ft (29.736 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--15 years, 399 ft^3/s (11.3 m^3/s), 14.37 in/yr (365 mm/yr), 289,100 acre-ft/yr (356 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,700 ft^3/s (1,490 m^3/s) June 8, 1974, gage height, 24.97 ft (7.611 m), from rating curve extended above 31,000 ft^3/s (878 m^3/s); no flow for part of Aug. 9, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1938, that of June 8, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,000 ft^3/s (198 m^3/s) Mar. 10 at 1400 hours, gage height, 16.75 ft (5.105 m), no other peaks above base of 2,400 ft^3/s (68 m^3/s); minimum, 4.0 ft^3/s (0.11 m^3/s) Aug. 23, gage height, 2.28 ft (0.695 m).

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	24	41	190	140	176	162	1040	65	302	134	14	5.5
2	23	39	221	146	150	154	747	79	183	106	14	16
3	22	44	178	217	133	148	437	79	139	113	13	146
4	22	93	121	250	121	142	283	66	107	123	12	242
5	22	171	99	205	124	195	228	54	86	224	12	136
6	22	149	87	147	391	454	197	48	78	606	11	48
7	22	98	82	129	455	624	175	57	75	569	11	25
8	23	73	83	132	408	963	159	74	174	251	9.5	18
9	23	60	80	129	282	3940	146	89	163	111	8.6	16
10	23	54	76	113	206	6680	132	74	94	98	7.9	22
11	22	51	72	105	180	4570	120	58	70	138	7.2	20
12	22	48	70	109	166	2480	111	50	55	110	6.8	15
13	22	45	70	115	156	1760	107	46	47	98	6.5	11
14	21	43	70	113	146	1320	104	51	45	73	6.0	90
15	20	40	74	105	139	902	102	102	44	53	5.9	218
16	20	40	104	97	132	573	99	127	140	43	5.6	150
17	19	41	125	90	133	416	94	155	377	38	5.4	59
18	19	43	127	85	348	323	86	142	397	36	5.4	43
19	20	44	103	83	587	261	80	95	406	33	5.2	77
20	20	50	86	99	648	244	81	69	547	31	4.9	63
21	20	61	77	139	779	355	99	54	483	31	4.7	47
22	20	65	74	195	1020	366	99	45	235	28	4.6	42
23	20	63	73	171	1050	269	93	43	125	25	4.2	32
24	20	60	73	131	774	210	78	42	95	23	4.6	26
25	39	55	81	224	451	215	69	38	142	22	5.4	21
26	87	60	118	480	267	248	66	37	461	21	5.6	17
27	112	84	167	657	218	422	66	194	708	20	4.8	17
28	92	101	170	597	192	583	59	616	672	19	5.0	19
29	68	118	136	506	174	663	52	805	495	19	5.4	37
30	54	137	139	452	---	828	54	885	226	16	6.0	34
31	45	---	158	255	---	1140	---	790	---	15	5.9	---
TOTAL	1008	2071	3384	6416	10006	31610	5263	5129	7171	3227	228.1	1712.5
MEAN	32.5	69.0	109	207	345	1020	175	165	239	104	7.36	57.1
MAX	112	171	221	657	1050	6680	1040	885	708	606	14	242
MIN	19	39	70	83	121	142	52	37	44	15	4.2	5.5
CFSM	.09	.18	.29	.55	.92	2.71	.46	.44	.63	.28	.02	.15
IN.	.10	.20	.33	.63	.99	3.12	.52	.51	.71	.32	.02	.17
AC-FT	2000	4110	6710	12730	19850	62700	10440	10170	14220	6400	452	3400

CAL YR 1975	TOTAL	241743.0	MEAN 662	MAX 9570	MIN 19	CFSM 1.76	IN 23.85	AC-FT 479500			
WTR YR 1976	TOTAL	77225.6	MEAN 211	MAX 6680	MIN 4.2	CFSM .56	IN 7.62	AC-FT 153200			

07362110 SMACKOVER CREEK NORTH OF SMACKOVER, AR

LOCATION.--Lat 33°22'46", long 92°43'09", in NE¼ sec.35, T.15 S., R.16 W., Union County, at bridge on county road, 1.1 mi (1.8 km) north of Smackover.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
14...	9827	9827	22	633	6.5	20.0	18.0	30	6	6.2
NOV										
18...	9827	9827	46	576	6.5	8.0	9.0	45	7	8.6
DEC										
09...	9827	9827	86	656	--	4.0	10.0	30	6	8.9
JAN										
21...	9827	9827	153	1630	6.3	<1.0	5.0	10	6	11.1
FEB										
18...	9827	9827	376	1587	6.0	13.0	15.0	20	15	7.4
MAR										
18...	9827	9827	377	464	6.1	9.0	12.0	40	10	8.1
APR										
20...	9827	9827	90	464	6.1	24.0	20.0	60	20	7.3
MAY										
19...	9827	9827	106	725	6.5	19.0	18.0	60	20	7.5
JUN										
16...	9827	9827	151	696	6.5	22.0	23.0	50	40	5.7
JUL										
21...	9827	9827	48	862	6.5	30.0	26.0	60	30	4.7
AUG										
18...	9827	9827	6.0	1300	6.7	25.0	25.0	40	20	3.2
SEP										
21...	9827	9827	51	1030	6.4	23.0	23.0	55	10	5.5

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
14...	65	1.0	280	52	110	630	--	--	--	--
NOV										
18...	74	.8	310	48	70	66	55	18	46	5.0
DEC										
09...	79	1.0	250	140	--	--	--	--	--	--
JAN										
21...	87	1.5	--	--	--	--	--	--	--	--
FEB										
18...	73	.8	720	250	460	150	140	40	100	13
MAR										
18...	75	.7	220	40	--	--	--	--	--	--
APR										
20...	79	1.1	<17	<5	100	--	--	--	--	--
MAY										
19...	79	1.0	100	130	250	78	71	22	54	6.0
JUN										
16...	66	1.3	530	410	650	--	--	--	--	--
JUL										
21...	57	1.0	63	54	90	--	--	--	--	--
AUG										
18...	38	1.1	63	15	190	140	120	36	90	11
SEP										
21...	63	.8	210	110	55	--	--	--	--	--

07362110 SMACKOVER CREEK NORTH OF SMACKOVER, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
14...	--	--	--	--	--	--	7.0	230	477	10
NOV										
18...	94	4.2	13	0	11	6.6	2.0	180	406	7
DEC										
09...	--	--	--	--	--	--	6.0	220	502	9
JAN										
21...	--	--	--	--	--	--	3.0	530	970	2
FEB										
18...	230	4.5	7	0	6	11	9.0	480	964	91
MAR										
18...	--	--	--	--	--	--	8.0	140	327	20
APR										
20...	--	--	--	--	--	--	14	110	283	43
MAY										
19...	100	3.2	9	0	7	4.6	6.0	220	469	19
JUN										
16...	--	--	--	--	--	--	8.0	230	--	--
JUL										
21...	--	--	--	--	--	--	5.0	250	556	42
AUG										
18...	58	2.0	20	0	16	6.4	19	380	768	38
SEP										
21...	--	--	--	--	--	--	10	280	614	38

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
14...	487	<.10	.01	--	--	--	--	--	--	--
NOV										
18...	413	.15	.01	<3	<10	0	<10	1100	<10	260
DEC										
09...	511	<.10	.01	--	--	--	<10	800	--	340
JAN										
21...	972	.12	<.01	--	--	--	10	740	--	570
FEB										
18...	1060	.12	.02	<3	<10	<3	<10	940	20	1100
MAR										
18...	347	.19	.02	--	--	--	<10	1100	--	530
APR										
20...	326	.13	.02	--	--	--	<10	2100	--	370
MAY										
19...	488	.29	.06	<3	<10	<3	<10	1700	70	430
JUN										
16...	--	.48	.12	--	--	--	--	--	--	--
JUL										
21...	598	.26	.05	--	--	--	<10	3100	--	680
AUG										
18...	806	<.10	.04	<3	<10	<3	<10	1800	20	1400
SEP										
21...	652	.13	.01	--	10	--	<10	970	--	780

07362110 SMACKOVER CREEK NORTH OF SMACKOVER, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
14...	--	--	--	--	--	--	--	--	--
NOV									
18...	<10	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
09...	20	--	--	--	--	--	--	--	--
JAN									
21...	30	--	--	--	--	--	--	--	--
FEB									
18...	30	--	--	--	--	--	--	--	--
MAR									
18...	30	--	--	--	--	--	--	--	--
APR									
20...	30	--	--	--	--	--	--	--	--
MAY									
19...	20	--	--	--	--	--	--	--	--
JUN									
16...	--	--	--	--	--	--	--	--	--
JUL									
21...	20	--	--	--	--	--	--	--	--
AUG									
18...	20	--	--	--	--	--	--	--	--
SEP									
21...	20	--	--	--	--	--	--	--	--

07362400 OUACHITA RIVER AT LOCK AND DAM 8, NEAR CALION, AR

LOCATION.--Lat 33°19'14", long 92°27'19", in sec.29, T.16 S., R.13 W., Union County, at south end on upstream side, at Lock and Dam 8, 7.0 mi (11.3 km) southeast of Calion.

PERIOD OF RECORD.--January 1972 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT 13...	9827	9827	344	6.9	22.0	21.0	35	6	7.2	80	1.2	150
NOV 17...	9827	9827	142	7.0	19.0	15.0	40	9	8.1	79	.7	--
DEC 08...	9827	9827	337	6.7	11.0	10.0	20	8	9.8	87	1.6	50
JAN 20...	9827	9827	263	7.1	9.0	9.0	40	9	10.4	90	1.3	--
FEB 17...	9827	9827	421	6.3	23.0	17.0	55	30	7.9	81	1.8	40
APR 19...	9827	9827	444	6.7	29.0	24.0	60	15	7.1	84	1.6	<17
MAY 18...	9827	9827	390	6.7	26.0	22.0	45	20	8.0	91	2.8	120
JUN 15...	9827	9827	265	6.4	25.0	24.0	65	25	5.8	68	2.5	550
JUL 20...	9827	9827	193	7.0	34.0	26.0	50	15	7.1	87	2.4	390
AUG 17...	9827	9827	168	7.1	34.0	34.0	60	20	7.1	99	3.4	120
SEP 21...	9827	9827	739	6.4	26.0	27.0	15	15	8.2	101	2.6	120

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT 13...	10	20	--	--	--	--	--	--	--	--	--	--
NOV 17...	--	--	30	6	10	24	1.0	18	2.1	29	0	24
DEC 08...	<5	<7	--	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	5	110	54	41	15	38	4.0	56	3.1	16	0	13
APR 19...	<5	10	--	--	--	--	--	--	--	--	--	--
MAY 18...	30	--	46	35	14	34	3.0	49	2.6	13	0	11
JUN 15...	<5	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	<5	15	--	--	--	--	--	--	--	--	--	--
AUG 17...	<120	10	36	10	10	24	3.0	18	2.6	32	0	26
SEP 21...	13	<5	--	--	--	--	--	--	--	--	--	--

07362400 OUACHITA RIVER AT LOCK AND DAM 8, NEAR CALION, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT 13...	--	19	90	233	12	245	.69	.01	--	<10	0	<10
NOV 17...	4.6	9.0	28	100	9	109	.55	.02	<3	<10	0	<10
DEC 08...	--	7.0	95	234	10	244	.32	<.01	--	--	--	<10
JAN 20...	--	10	56	154	16	170	.66	.02	--	--	--	<10
FEB 17...	13	30	100	288	9	297	.38	.04	<3	<10	<3	20
APR 19...	--	11	110	271	11	282	.14	.03	--	--	<3	<10
MAY 18...	4.2	11	92	233	24	257	.22	.03	<3	<10	<3	<10
JUN 15...	--	26	56	184	12	196	.66	.13	--	--	--	10
JUL 20...	--	11	34	128	10	138	.28	.05	--	--	--	<10
AUG 17...	4.1	5.0	19	148	31	117	.70	.07	<3	<10	<3	<10
SEP 21...	--	4.0	240	440	40	480	<.10	.01	--	<10	--	<10

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT 13...	65	<10	220	<10	--	--	--	--	--	--	--	--
NOV 17...	850	<10	130	<10	--	--	--	--	--	--	--	--
DEC 08...	640	20	320	30	--	--	--	--	--	--	--	--
JAN 20...	690	80	160	20	--	--	--	--	--	--	--	--
FEB 17...	1900	20	520	20	.00	.00	.00	.00	.00	.00	.00	<1
APR 19...	1700	30	360	30	--	--	--	--	--	--	--	--
MAY 18...	910	90	160	20	--	--	--	--	--	--	--	--
JUN 15...	1500	30	380	70	--	--	--	--	--	--	--	--
JUL 20...	1200	<10	260	<10	--	--	--	--	--	--	--	--
AUG 17...	1100	10	210	<10	--	--	--	--	--	--	--	--
SEP 21...	740	20	700	20	--	--	--	--	--	--	--	--

07362500 MORO CREEK NEAR FORDYCE, AR

LOCATION.--Lat 33°47'32", long 92°19'30", in NW¼NW¼ sec.3, T.11 S., R.12 W., Calhoun-Cleveland County line, near center of stream on downstream side of bridge on State Highway 8, 1,100 ft (340 m) upstream from Caney Creek, 4.0 mi (6.4 km) southeast of Fordyce, 12.0 mi (19.3 km) upstream from White Water Creek, and at mile 38.2 (61.5 km).

DRAINAGE AREA.--216 mi^2 (559 km^2).

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.63 ft (48.960 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--25 years, 227 ft^3/s (6.43 m^3/s), 14.27 in/yr (362 mm/yr), 164,500 acre-ft/yr (203 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,800 ft^3/s (759 m^3/s) May 2, 1958, gage height, 16.47 ft (5.020 m); no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in January 1938 reached a stage of 15.1 ft (4.60 m), from information by State Highway Department, discharge, 15,800 ft^3/s (447 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,800 ft^3/s (79.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 10	1900	*5,210	148	12.74	3.883
July 6	1500	3,140	88.9	11.87	3.618

No flow at times.

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	1.1	.76	27	19	97	107	500	21	20	127	1.2	0
2	1.3	.79	23	26	65	91	539	18	17	63	.92	0
3	.89	1.3	17	42	50	78	462	15	14	39	.75	0
4	.79	4.4	15	59	41	70	299	12	12	106	.65	6.6
5	.79	6.0	15	65	38	88	161	9.8	16	412	.52	11
6	.77	5.7	20	57	122	180	103	16	19	2360	.48	6.5
7	.84	5.0	24	44	269	279	78	228	38	2400	.40	4.0
8	.85	4.5	23	33	298	871	63	451	171	1430	.33	2.5
9	.80	4.5	21	28	303	3110	51	479	293	942	.26	1.8
10	.78	4.0	19	20	283	4830	44	366	559	608	.17	1.3
11	.85	4.0	18	19	193	4310	38	227	866	260	.08	.97
12	.95	4.0	18	17	112	2720	32	105	712	82	.02	.81
13	1.3	4.0	18	17	80	1830	29	77	352	43	0	.66
14	1.5	3.5	19	15	64	1450	27	84	91	30	0	.62
15	1.5	3.5	22	13	54	1180	24	94	37	21	0	.78
16	1.5	3.5	29	13	47	979	22	108	80	17	0	.51
17	1.4	3.0	23	11	52	811	20	152	146	13	0	.36
18	1.3	3.5	14	9.3	282	691	17	208	272	11	0	.28
19	1.3	3.0	9.4	7.8	457	560	16	209	440	7.9	0	.20
20	1.3	3.0	7.6	9.7	549	396	18	145	520	5.5	0	.15
21	1.4	4.0	5.9	16	801	250	36	81	740	4.7	0	.11
22	1.5	4.5	4.5	22	1220	163	58	48	866	3.9	0	.05
23	1.6	4.5	4.1	22	1180	124	59	34	808	2.8	0	0
24	1.7	4.0	4.3	21	967	110	77	26	615	2.3	0	0
25	5.0	4.0	11	75	829	97	79	20	330	2.0	0	0
26	5.8	4.0	15	218	717	84	79	16	194	1.9	0	0
27	3.0	5.0	14	296	450	85	81	26	291	1.5	0	0
28	1.7	18	12	323	224	96	46	42	701	1.4	0	0
29	1.3	14	13	343	135	163	30	32	405	1.1	0	0
30	.99	13	18	313	---	287	24	25	259	1.5	0	0
31	.81	---	21	192	---	416	---	23	---	1.5	0	---
TOTAL	46.61	146.95	504.8	2365.8	9979	26506	3112	3397.8	9884	9002.0	5.78	39.20
MEAN	1.50	4.90	16.3	76.3	344	855	104	110	329	290	.19	1.31
MAX	5.8	18	29	343	1220	4830	539	479	866	2400	1.2	11
MIN	.77	.76	4.1	7.8	38	70	16	9.8	12	1.1	0	0
CFSM	.006	.02	.08	.35	1.59	3.96	.48	.51	1.52	1.34	0	.006
IN.	.008	.03	.09	.41	1.72	4.56	.54	.59	1.70	1.55	.0010	.007
AC-FT	92	291	1000	4690	19790	52570	6170	6740	19600	17860	11	78

CAL YR 1975 TOTAL 149678.65 MEAN 410 MAX 5430 MIN .74 CFSM 1.90 IN 25.78 AC-FT 296900
WTR YR 1976 TOTAL 64989.94 MEAN 178 MAX 4830 MIN 0 CFSM .82 IN 11.19 AC-FT 128900

07362550 MORO CREEK NEAR BANKS, AR

LOCATION.--Lat 33°32'36", long 92°19'06", in sec.35 T.13 S., R.12 W., Bradley-Calhoun County line, at bridge on State Highway 4, 4.0 mi (6.4 km) west of banks.

DRAINAGE AREA.--374 mi^2 (969 km^2).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
NOV										
17...	9827	9827	1190	86	6.7	18.0	15.0	55	10	3.8
DEC										
08...	9827	9827	1040	82	6.6	10.0	10.0	55	15	7.7
JAN										
20...	9827	9827	30	80	6.9	8.0	8.0	50	10	10.8
MAR										
17...	9827	9827	1320	34	6.1	15.0	14.0	80	15	8.1
APR										
19...	9827	9827	42	92	7.0	27.0	22.0	80	30	4.8
MAY										
18...	9827	9827	232	84	6.7	26.0	18.0	50	25	7.6
JUN										
15...	9827	9827	800	39	6.3	24.0	22.0	100	<25	7.2
JUL										
20...	9827	9827	30	56	6.6	34.0	26.0	100	35	5.3
SEP										
21...	9827	9827	7.0	116	7.0	25.0	25.0	60	15	6.7

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
NOV										
17...	37	1.4	500	13	160	24	0	7.0	18	1.0
DEC										
08...	68	1.3	950	220	300	--	--	--	--	--
JAN										
20...	91	1.9	170	40	170	--	--	--	--	--
MAR										
17...	78	1.3	750	100	--	--	--	--	--	--
APR										
19...	55	1.0	<50	67	20	--	--	--	--	--
MAY										
18...	80	1.5	540	230	47	18	6	6.0	14	1.0
JUN										
15...	82	3.0	620	210	320	--	--	--	--	--
JUL										
20...	65	1.4	190	35	150	--	--	--	--	--
SEP										
21...	80	1.7	1100	250	70	--	--	--	--	--

07362550 MORO CREEK NEAR BANKS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
NOV 17...	9.2	3.6	33	0	27	11	3.0	13	83	17
DEC 08...	--	--	--	--	--	--	10	15	85	7
JAN 20...	--	--	--	--	--	--	9.0	14	102	3
MAR 17...	--	--	--	--	--	--	2.0	6.0	72	12
APR 19...	--	--	--	--	--	--	12	9.0	85	33
MAY 18...	5.7	2.2	15	0	12	4.8	12	8.0	93	25
JUN 15...	--	--	--	--	--	--	3.0	7.0	84	20
JUL 20...	--	--	--	--	--	--	3.0	9.0	107	19
SEP 21...	--	--	--	--	--	--	11	12	--	--

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
NOV 17...	100	.13	.09	<3	<10	0	<10	1055	20	620
DEC 08...	92	.14	.03	--	--	--	--	--	--	--
JAN 20...	105	.16	.06	--	--	--	--	--	--	--
MAR 17...	84	.21	.02	--	--	--	--	--	--	--
APR 19...	118	.17	.09	--	--	--	--	--	--	--
MAY 18...	118	.28	.05	<3	<10	<3	<10	1715	40	140
JUN 15...	104	.38	.10	--	--	--	--	--	--	--
JUL 20...	126	.38	.19	--	--	--	--	--	--	--
SEP 21...	--	.11	.08	--	--	--	--	--	--	--

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
NOV 17...	<10	.00	.00	.00	.00	.00	.00	.00	<1
DEC 08...	--	--	--	--	--	--	--	--	--
JAN 20...	--	--	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--	--	--
APR 19...	--	--	--	--	--	--	--	--	--
MAY 18...	30	--	--	--	--	--	--	--	--
JUN 15...	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--
SEP 21...	--	--	--	--	--	--	--	--	--

07363000 SALINE RIVER AT BENTON, AR

LOCATION.--Lat 34°34'05", long 92°36'40", in SE¼NE¼ sec.9, T.2 S., R.15 W., Saline County, on left bank 0.8 mi (1.3 km) west of Benton, 3.0 mi (4.8 km) downstream from confluence of North Fork and Alum Fork, and at mile 198.1 (318.7 km).

DRAINAGE AREA.--569 mi^2 (1,474 km^2).

PERIOD OF RECORD.--October 1950 to current year. Gage-height record collected at site 0.4 mi (0.6 km) downstream since July 1938 are contained in reports of National Weather Service.

REVISED RECORDS.--WRD Ark. 1973: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 260.91 ft (79.525 m) above mean sea level. July 6, 1938, to July 29, 1948, and Feb. 14 to Mar. 24, 1950, nonrecording gage; July 30, 1948, to Feb. 13, 1950, and Mar. 25, 1950, to July 13, 1951, water-stage recorder; all at site 0.4 mi (0.6 km) downstream at datum 3.00 ft (0.914 m) lower.

REMARKS.--Records good. Little Rock diverts about 35 ft^3/s (0.99 m^3/s) from Lake Winona on Alum Fork for municipal use and discharges sewage effluent into Arkansas River. Benton diverts about 3.2 ft^3/s (0.091 m^3/s) for municipal use just above station. At times low flow is augmented by releases from Lake Norrell.

AVERAGE DISCHARGE.--26 years, 422 ft^3/s (12.0 m^3/s), 560,800 acre-ft/yr (691 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100,000 ft^3/s (2,830 m^3/s) Jan. 30, 1969, gage height, 29.68 ft (9.046 m); no flow July 23-25, 27-30, Aug. 11-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1927 reached a stage of about 32.0 ft (9.75 m), former site and datum (from information by State Highway Department), or about 30.5 ft (9.30 m), present site and datum, discharge, about 110,000 ft^3/s (3,120 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,700 ft^3/s (473 m^3/s) June 25 at 1445 hours, gage height, 18.38 ft (5.602 m), no other peaks above base of 14,000 ft^3/s (396 m^3/s); minimum, 7.3 ft^3/s (0.21 m^3/s) Aug. 23, 24, gage height, 3.09 ft (0.942 m).

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	50	58	164	728	332	283	945	110	643	436	65	120
2	48	56	262	652	292	260	683	100	842	351	57	85
3	44	77	198	816	259	240	541	87	572	297	49	85
4	46	88	161	684	234	227	453	76	419	535	43	170
5	52	111	140	499	294	387	378	68	337	769	39	282
6	51	126	136	402	460	340	333	97	1870	460	39	190
7	49	105	185	355	388	302	291	166	1780	320	35	139
8	45	90	266	320	331	2820	256	189	823	246	29	112
9	42	82	217	280	294	8910	220	141	510	202	27	89
10	43	79	179	240	268	3490	195	108	381	174	25	85
11	41	74	157	229	246	1700	176	90	304	152	25	74
12	39	70	140	233	234	1220	160	90	248	132	23	68
13	40	68	125	228	228	927	160	1380	209	114	19	60
14	37	64	118	209	217	757	152	892	177	102	18	57
15	40	63	138	187	204	800	148	1080	153	93	17	48
16	39	62	203	171	196	665	133	1660	1460	84	17	46
17	39	62	207	158	385	555	121	954	1020	78	14	44
18	42	64	186	149	6690	476	103	594	906	72	12	44
19	47	68	159	146	2950	421	95	425	2750	67	13	46
20	49	74	140	174	1420	390	124	331	1100	61	10	48
21	51	73	126	247	1130	375	313	270	615	54	8.7	62
22	46	74	118	266	1060	352	333	220	424	48	8.5	65
23	37	79	111	239	767	309	227	188	336	45	10	64
24	39	81	105	218	598	282	184	180	319	43	9.6	61
25	55	76	141	510	503	272	367	231	10400	39	11	51
26	65	81	395	1890	431	264	316	259	5510	36	16	40
27	91	84	588	1190	379	265	217	2170	1670	33	17	38
28	88	87	543	745	336	280	168	3320	1100	34	46	35
29	76	92	1060	557	307	1160	140	1400	785	51	96	34
30	68	120	2280	450	---	2150	125	793	577	87	85	34
31	63	---	1190	379	---	1460	---	544	---	59	116	---
TOTAL	1562	2388	10138	13551	21433	32339	8057	18213	38240	5274	999.8	2376
MEAN	50.4	79.6	327	437	739	1043	269	588	1275	170	32.3	79.2
MAX	91	126	2280	1890	6690	8910	945	3320	10400	769	116	282
MIN	37	56	105	146	196	227	95	68	153	33	8.5	34
AC-FT	3100	4740	20110	26880	42510	64140	15980	36130	75850	10460	1980	4710

CAL YR 1975 TOTAL 315843.0 MEAN 865 MAX 24100 MIN 31 AC-FT 626500
WTR YR 1976 TOTAL 154570.8 MEAN 422 MAX 10400 MIN 8.5 AC-FT 306600

07363002 SALINE RIVER WEST OF BENTON, AR

LOCATION.--Lat 34°33'46", long 92°36'55", in sec.9, T.2 S., R.15 W., Saline County, at bridge on Old U.S. Highway 67, 3.4 mi (5.5 km) downstream from confluence of North Fork and Alum Fork, and at mile 197.7 (318.1 km).

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
15...	9827	9827	35	120	7.5	22.0	24.0	10	5	7.2
NOV										
19...	9827	9827	65	--	--	--	--	--	--	--
20...	9827	9827	--	124	7.7	12.0	15.0	15	20	9.6
DEC										
09...	9827	9827	--	117	7.7	3.0	10.0	25	9	10.6
10...	9827	9827	180	--	--	--	--	--	--	--
JAN										
22...	9827	9827	271	128	7.7	4.0	7.0	10	7	11.9
FEB										
19...	9827	9827	2920	65	7.3	11.0	15.0	60	50	9.4
MAR										
18...	9827	9827	496	103	7.7	13.0	16.0	20	6	9.7
APR										
15...	9827	9827	147	133	7.8	20.0	23.0	10	4	8.2
MAY										
20...	9827	9827	342	--	7.7	--	21.0	30	<25	8.4
JUN										
17...	9827	9827	1120	79	7.4	24.0	26.0	60	<25	6.5
JUL										
28...	9827	9827	33	143	7.8	28.0	31.0	15	8	6.9
AUG										
25...	9827	9827	12	150	7.8	24.0	27.0	10	6	6.8
SEP										
29...	9827	9827	33	146	7.7	19.0	23.0	10	5	7.8

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
15...	85	.8	430	90	--	--	--	--	--	--
NOV										
19...	--	--	--	--	--	--	--	--	--	--
20...	94	.6	570	150	--	--	--	--	--	--
DEC										
09...	94	.7	150	55	160	54	0	20	50	1.0
10...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	98	1.6	130	25	--	52	0	16	40	3.0
FEB										
19...	92	1.2	2300	1600	--	--	--	--	--	--
MAR										
18...	97	.2	130	5	--	--	--	--	--	--
APR										
15...	94	1.8	170	20	--	52	0	18	44	2.0
MAY										
20...	93	1.2	130	65	--	--	--	--	--	--
JUN										
17...	79	2.0	--	2300	--	--	--	--	--	--
JUL										
28...	92	.9	140	68	33	68	7	18	46	5.0
AUG										
25...	84	.8	230	35	20	--	--	--	--	--
SEP										
29...	90	--	180	80	--	--	--	--	--	--

07363002 SALINE RIVER WEST OF BENTON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
15...	--	--	--	--	--	--	6.0	5.0	92	5
NOV										
19...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	4.0	4.5	92	7
DEC										
09...	2.1	.9	71	0	58	2.3	7.0	5.5	87	3
10...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	2.4	.1	63	0	52	2.0	4.0	4.5	79	6
FEB										
19...	--	--	--	--	--	--	5.0	4.0	68	59
MAR										
18...	--	--	--	--	--	--	4.0	4.0	65	17
APR										
15...	2.2	.1	67	0	55	1.7	1.0	4.0	69	9
MAY										
20...	--	--	--	--	--	--	7.0	3.5	87	12
JUN										
17...	--	--	--	--	--	--	<1.0	3.5	76	46
JUL										
28...	3.8	.9	74	0	61	1.9	3.0	4.5	82	7
AUG										
25...	--	--	--	--	--	--	3.0	4.0	83	4
SEP										
29...	--	--	--	--	--	--	4.0	4.0	83	8

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
15...	97	.10	<.01	--	--	0	100	260	<10	55
NOV										
19...	--	--	--	--	--	--	--	--	--	--
20...	99	.13	<.01	--	--	--	270	410	--	38
DEC										
09...	90	.33	<.01	<3	<10	0	110	400	10	17
10...	--	--	--	--	--	--	--	--	--	--
JAN										
22...	85	<.10	<.01	<3	<10	<3	1000	360	270	57
FEB										
19...	127	.32	.08	--	--	--	210	1400	--	38
MAR										
18...	82	<.10	<.01	--	--	--	90	250	--	34
APR										
15...	78	.17	<.01	<3	<10	<3	100	260	10	<27
MAY										
20...	99	.16	.01	--	--	--	120	540	--	41
JUN										
17...	122	<.10	.02	--	--	--	60	1900	--	59
JUL										
28...	89	.12	.01	<3	10	<3	90	290	<10	51
AUG										
25...	87	<.10	<.01	--	<10	--	50	210	--	<27
SEP										
29...	91	<.10	.01	--	--	--	80	360	--	44

07363002 SALINE RIVER WEST OF BENTON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
15...	50	--	--	--	--	--	--	--	--
NOV									
19...	--	--	--	--	--	--	--	--	--
20...	100	--	--	--	--	--	--	--	--
DEC									
09...	70	.00	.00	.00	.00	.00	.00	.00	<1
10...	--	--	--	--	--	--	--	--	--
JAN									
22...	3800	--	--	--	--	--	--	--	--
FEB									
19...	80	--	--	--	--	--	--	--	--
MAR									
18...	80	--	--	--	--	--	--	--	--
APR									
15...	70	--	--	--	--	--	--	--	--
MAY									
20...	100	--	--	--	--	--	--	--	--
JUN									
17...	90	--	--	--	--	--	--	--	--
JUL									
28...	60	--	--	--	--	--	--	--	--
AUG									
25...	30	--	--	--	--	--	--	--	--
SEP									
29...	10	--	--	--	--	--	--	--	--

07363200 SALINE RIVER NEAR SHERIDAN, AR

LOCATION.--Lat 34°06'56", long 92°24'21", in NE¼NW¼ sec.15, T.7 S., R.13 W., Grant County, on downstream side of bridge on U.S. Highway 167, 1.0 mi (1.6 km) upstream from Gamble Creek, 1.6 mi (2.6 km) upstream from Hurricane Creek, 13.5 mi (21.7 km) south of Sheridan, and at mile 131.4 (211.4 km).

DRAINAGE AREA.--1,129 mi^2 (2,924 km^2).

PERIOD OF RECORD.--October 1970 to current year. Gage-height record since September 1938 are contained in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 152.86 ft (46.592 m) above mean sea level.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, 1,813 ft^3/s (51.3 m^3/s), 21.81 in/yr (554 mm/yr), 1,314,000 acre-ft/yr (1,620 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,600 ft^3/s (1,690 m^3/s) June 10, 1974, gage height, 21.36 ft (6.511 m); minimum, 13 ft^3/s (0.37 m^3/s) Aug. 28, 1972, gage height, 1.74 ft (0.350 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1938, 22.42 ft (6.834 m) Feb. 1, 1969, from records of Corps of Engineers, discharge, 71,000 ft^3/s (2,010 m^3/s) computed by Geological Survey.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,740 ft^3/s (276 m^3/s) Mar. 12, gage height, 15.73 ft (4.795 m), no peaks above base of 14,000 ft^3/s (396 m^3/s); minimum, 32 ft^3/s (0.91 m^3/s) Aug. 30, gage height, 1.73 ft (0.527 m).

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	80	103	182	1470	810	716	2830	365	2500	1650	170	110
2	73	92	245	1710	676	649	3470	326	2000	1250	175	112
3	72	89	312	1570	591	597	3940	295	1180	1100	131	139
4	69	102	341	1480	524	556	3520	271	948	2100	125	178
5	68	149	359	1470	503	642	2160	250	797	4400	117	204
6	64	193	319	1350	777	727	1260	293	756	4000	103	203
7	60	180	284	1070	1380	796	862	672	1490	3250	92	247
8	63	159	273	833	1690	1520	713	906	1760	2550	85	275
9	64	163	275	700	1650	3900	630	798	2130	2070	80	218
10	64	145	303	618	1380	4620	553	613	2440	1020	77	164
11	61	130	345	543	1080	7110	495	484	2470	560	70	130
12	57	119	311	497	831	9460	450	399	1610	448	68	111
13	54	112	278	470	674	9300	412	456	722	388	67	98
14	51	105	254	448	593	7380	386	574	451	342	66	89
15	48	98	238	437	544	5510	371	1350	356	292	66	80
16	46	89	226	412	507	4430	366	1830	669	260	82	72
17	44	89	219	380	498	3310	354	2110	1200	252	160	66
18	42	89	201	354	927	2070	335	2450	1700	237	107	62
19	41	87	293	335	1530	1420	311	2550	2200	213	68	59
20	40	86	288	329	2230	1080	339	2050	2400	188	60	58
21	39	88	263	370	3050	944	531	1210	2650	170	50	60
22	40	97	239	526	3870	1040	652	735	2200	154	46	69
23	41	104	218	580	4540	1060	633	559	1250	139	45	85
24	42	102	202	571	4460	909	645	458	650	126	45	92
25	60	96	199	586	3880	756	666	402	700	117	40	93
26	75	102	216	816	2710	677	844	379	1200	110	37	87
27	101	113	336	1170	1660	645	886	391	1900	102	35	83
28	109	136	528	1650	1120	641	734	584	2500	92	32	73
29	96	172	709	1850	841	829	545	1460	2600	85	34	63
30	106	179	786	1590	---	1550	429	2000	2300	94	35	59
31	113	---	980	1100	---	2270	---	2350	---	106	53	---
TOTAL	1983	3570	10282	27285	45526	77114	30322	29570	47729	27865	2421	3439
MEAN	64.0	119	332	880	1570	2488	1011	954	1591	899	78.1	115
MAX	113	193	980	1850	4540	9460	3940	2550	2650	4400	175	275
MIN	39	86	182	329	498	556	311	250	356	85	32	58
CFSM	.06	.11	.29	.78	1.39	2.20	.90	.84	1.41	.80	.07	.10
IN.	.07	.12	.34	.90	1.50	2.54	1.00	.97	1.57	.92	.08	.11
AC-FT	3930	7080	20390	54120	90300	153000	60140	58650	94670	55270	4800	6820

CAL YR 1975 TOTAL 649459 MEAN 1779 MAX 20400 MIN 39 CFSM 1.58 IN 21.40 AC-FT 1288000
WTR YR 1976 TOTAL 307106 MEAN 839 MAX 9460 MIN 32 CFSM .74 IN 10.12 AC-FT 609100

07363270 HURRICANE CREEK NEAR SARDIS, AR

LOCATION.--Lat 34°30'40", long 92°24'54", in SW¼ sec.28, T.2 S., R.13 W., Saline County, at crossing on county road, 200 ft (61 m) downstream from Brushy Creek, 1.5 mi (2.4 km) southwest of Sardis.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
DEC 09...	9827	9827	2.0	--	5.8	8.0	11.0	30	5	11.0
JAN 21...	9827	9827	18	93	5.7	11.0	9.0	30	8	12.0
FEB 18...	9827	9827	290	192	6.6	14.0	14.0	10	190	18.0
MAR 18...	9827	9827	46	412	6.7	20.0	14.0	5	15	9.7
APR 20...	9827	9827	--	311	6.6	26.0	24.0	35	40	7.9
MAY 19...	9827	9827	56	294	7.0	20.0	21.0	10	35	8.6
JUN 16...	9827	9827	25	727	4.8	28.0	25.0	10	<25	7.3
JUL 21...	9827	9827	15	404	4.5	32.0	28.0	10	15	7.7
SEP 22...	9827	9827	2.0	829	5.4	16.0	17.0	15	4	8.1

DATE	PERCENT SATURATION (00301)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
DEC 09...	99	1.3	33	20	28	--	--	--	--	--
JAN 21...	103	2.0	7	5	24	--	--	--	--	--
FEB 18...	77	1.8	2000	990	980	58	45	14	36	5.0
MAR 18...	93	.9	<8	4	--	--	--	--	--	--
APR 20...	93	1.7	<20	2100	3200	--	--	--	--	--
MAY 19...	96	1.0	20	10	30	88	65	22	56	8.0
JUN 16...	87	.6	140	10	650	--	--	--	--	--
JUL 21...	97	.8	40	25	10	--	--	--	--	--
SEP 22...	84	.6	360	90	260	--	--	--	--	--

07363270 HURRICANE CREEK NEAR SARDIS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
DEC										
09...	--	--	--	--	--	--	10	4.5	41	7
JAN										
21...	--	--	--	--	--	--	22	6.0	--	--
FEB										
18...	14	3.8	16	0	13	6.4	100	7.0	129	303
MAR										
18...	--	--	--	--	--	--	230	6.0	290	18
APR										
20...	--	--	--	--	--	--	120	4.0	190	41
MAY										
19...	30	2.5	28	0	23	4.5	110	6.0	190	68
JUN										
16...	--	--	--	--	--	--	440	6.0	531	82
JUL										
21...	--	--	--	--	--	--	220	5.5	284	27
SEP										
22...	--	--	--	--	--	--	190	4.5	623	14

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
DEC										
09...	48	.11	<.01	--	<10	--	<10	930	<10	110
JAN										
21...	--	.12	<.01	--	<10	--	<10	940	<10	450
FEB										
18...	432	.73	.10	<3	<10	<3	20	20000	100	1300
MAR										
18...	308	.22	.01	--	<10	--	20	2000	--	1600
APR										
20...	231	.17	.02	--	<10	--	<10	2000	--	1600
MAY										
19...	258	.36	.07	<3	<10	<3	20	3300	--	1400
JUN										
16...	613	.53	<.01	--	<10	--	20	5400	--	3800
JUL										
21...	311	<.10	.04	--	--	--	20	1400	--	3200
SEP										
22...	637	.98	.05	--	<10	--	<10	520	--	2100

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
DEC									
09...	<10	--	--	--	--	--	--	--	--
JAN									
21...	10	.00	.00	.00	.00	.00	.00	.00	<1
FEB									
18...	90	--	--	--	--	--	--	--	--
MAR									
18...	50	--	--	--	--	--	--	--	--
APR									
20...	60	--	--	--	--	--	--	--	--
MAY									
19...	70	--	--	--	--	--	--	--	--
JUN									
16...	200	--	--	--	--	--	--	--	--
JUL									
21...	190	--	--	--	--	--	--	--	--
SEP									
22...	60	--	--	--	--	--	--	--	--

07363300 HURRICANE CREEK NEAR SHERIDAN, AR

LOCATION.--Lat 34°19'10", long 92°20'40", in NW¼NE¼ sec.6, T.5 S., R.12 W., Grant County, on downstream side of bridge on U.S. Highway 270, 2.8 mi (4.5 km) downstream from Simpson Creek, 3.5 mi (5.6 km) east of Sheridan, and at mile 16.9 (27.2 km).

DRAINAGE AREA.--204 mi^2 (528 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements 1957-61. October 1961 to current year. Gage-height records and results of discharge measurements 1960-63 are published in reports of Corps of Engineers.

REVISED RECORDS.--WRD Ark. 1970: 1969.

GAGE.--Water-stage recorder. Datum of gage is 200.00 ft (60.960 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--15 years, 232 ft^3/s (6.57 m^3/s), 15.37 in/yr (390 mm/yr), 168,100 acre-ft/yr (207 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum discharge, 18,100 ft^3/s (513 m^3/s) Apr. 24, 1964, gage height, 15.93 ft (4.855 m); no flow at times in 1972, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1939, 18.55 ft (5.654 m) June 27, 1960, from floodmarks, discharge, 52,300 ft^3/s (1,480 m^3/s) by contracted-opening measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,240 ft^3/s (120 m^3/s) Mar. 9, gage height, 14.41 ft (4.392 m), no peaks above base of 5,000 ft^3/s (142 m^3/s); no flow Aug. 20-25, Sept 29-30.

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	8.3	5.0	34	71	68	87	640	20	100	60	16	1.2
2	6.8	4.1	57	71	59	79	362	18	117	44	7.7	1.2
3	5.2	5.5	31	228	53	74	211	15	102	33	4.7	.95
4	4.6	8.9	27	253	48	69	151	11	69	98	3.0	8.0
5	3.9	37	22	137	63	93	119	9.3	51	397	2.9	10
6	3.2	21	18	85	335	207	99	13	99	259	2.4	5.8
7	2.9	13	23	71	484	200	85	94	463	92	1.6	2.4
8	2.4	11	31	74	347	364	76	104	649	52	1.5	1.6
9	2.2	9.8	25	65	181	2990	64	56	325	33	1.0	1.3
10	2.0	8.5	18	48	129	2730	55	33	116	27	.84	1.0
11	2.4	7.4	17	45	108	1620	47	29	68	22	.52	.82
12	2.2	5.8	15	47	94	962	41	33	47	18	.55	1.1
13	2.0	7.4	13	46	80	527	38	73	34	17	.59	1.2
14	2.3	6.9	12	42	71	323	36	203	26	13	.41	1.2
15	2.3	5.9	13	41	65	235	35	292	19	11	.24	.79
16	2.0	5.0	15	35	60	211	33	346	19	18	.51	.43
17	2.1	4.5	38	34	65	183	29	364	24	26	.24	.21
18	2.3	5.5	32	32	325	142	25	378	39	20	.24	.35
19	2.5	5.1	20	30	551	118	21	222	46	17	.04	1.8
20	2.0	5.2	16	34	508	112	21	89	93	15	0	1.9
21	2.0	6.4	13	87	357	182	37	54	65	15	0	1.4
22	2.1	9.0	12	96	433	178	65	36	39	14	0	1.6
23	2.0	10	12	71	503	129	44	26	30	15	0	1.8
24	3.7	8.8	11	58	341	103	31	19	26	13	0	1.2
25	12	6.9	14	80	206	96	167	14	26	13	0	.90
26	22	6.6	70	293	159	99	152	14	123	8.5	.14	.63
27	20	7.9	132	323	127	107	73	30	261	4.2	1.0	.34
28	11	27	81	181	108	129	42	254	198	3.2	.90	.03
29	7.9	22	55	114	96	207	27	379	111	2.8	3.1	0
30	6.0	17	67	91	---	494	21	346	74	3.0	2.4	0
31	5.7	---	97	80	---	828	---	152	---	8.0	1.3	---
TOTAL	158.0	304.1	1041	2963	6024	13878	2847	3726.3	3459	1371.7	53.82	51.15
MEAN	5.10	10.1	33.6	95.6	208	448	94.9	120	115	44.2	1.74	1.71
MAX	22	37	132	323	551	2990	640	379	649	397	16	10
MIN	2.0	4.1	11	30	48	69	21	9.3	19	2.8	0	0
CFSM	.03	.05	.16	.47	1.02	2.20	.47	.59	.56	.22	.008	.008
IN.	.03	.06	.19	.54	1.10	2.53	.52	.68	.63	.25	.010	.009
AC-FT	313	603	2060	5880	11950	27530	5650	7390	6860	2720	107	101

CAL YR 1975	TOTAL	107798.70	MEAN 295	MAX 6370	MIN 2.0	CFSM 1.45	IN 19.66	AC-FT 213800				
WTR YR 1976	TOTAL	35877.07	MEAN 98.0	MAX 2990	MIN 0	CFSM .48	IN 6.54	AC-FT 71160				

07363500 SALINE RIVER NEAR RYE, AR

LOCATION.--Lat 33°42'03", long 92°01'33", in SW¼NW¼ sec.3, T.12 S., R.9 W., Bradley County, near left bank on downstream side of bridge on State Highway 15, 3.6 mi (5.8 km) southwest of Rye, 5.8 mi (9.3 km) upstream from Hudgin Creek, and at mile 71.0 (114.2 km).

DRAINAGE AREA.--2,062 mi^2 (5,340 km^2).

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

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 97.06 ft (29.584 m) above mean sea level. Prior to May 30, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--39 years, 2,591 ft^3/s (73.4 m^3/s), 17.06 in/yr (433 mm/yr), 1,877,000 acre ft/yr (2,310 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,500 ft^3/s (2,110 m^3/s) May 18, 1968, gage height, 31.40 ft (9.571 m); minimum, 3.5 ft^3/s (0.099 m^3/s) Sept. 27, 28, 1954, gage height, 3.84 ft (1.170 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1927 reached a stage of 30.5 ft (9.30 m), discharge, about 73,000 ft^3/s (2,070 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,000 ft^3/s (340 m^3/s) Mar. 18 at 1800 hours, gage height, 22.69 ft (6.916 m), no other peaks above base of 10,000 ft^3/s (283 m^3/s); minimum, 51 ft^3/s (1.44 m^3/s) Aug. 28, gage height, 4.76 (1.451 m).

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	133	128	188	904	2100	4230	3360	825	1860	2760	136	58
2	123	134	207	1090	1720	2970	3530	621	2190	2970	135	68
3	114	134	216	1460	1220	1620	3600	510	2450	3280	158	143
4	108	129	248	1770	908	1160	3630	443	2570	3660	186	202
5	103	122	312	1890	763	1750	3670	400	2250	4280	166	180
6	103	120	376	1840	1260	1950	3770	374	1650	4830	156	185
7	102	140	397	1790	1920	1950	3860	621	1260	5180	147	200
8	100	180	377	1700	2150	2860	3640	1570	1330	5130	135	208
9	96	199	340	1460	2350	6500	2560	2150	1710	4620	124	236
10	93	192	319	1140	2390	8260	1460	2230	2000	4060	116	266
11	93	184	315	904	2350	9030	1060	1750	2270	3600	109	238
12	93	172	329	767	2200	9140	895	1130	2520	2870	104	196
13	91	157	359	671	1840	9010	793	826	2710	1460	99	166
14	87	145	351	594	1360	8950	717	718	2680	737	92	147
15	83	138	324	544	1040	9180	651	772	1870	539	90	135
16	80	133	316	513	852	9810	601	1100	956	447	106	126
17	78	130	323	491	762	10900	571	1640	706	384	103	120
18	74	123	301	461	1220	11800	557	2020	1130	335	89	114
19	71	119	282	427	2420	11600	533	2270	1750	309	128	109
20	68	122	293	405	3220	10700	527	2470	2170	287	138	103
21	66	120	326	390	3830	9580	568	2620	2410	267	101	97
22	64	118	333	384	4440	8200	689	2660	2560	243	82	90
23	62	115	311	418	4710	6080	886	2280	2650	222	82	85
24	64	117	285	544	4830	3520	947	1410	2690	207	67	84
25	85	124	272	741	4910	2110	1100	821	2650	192	62	92
26	83	135	259	1460	4880	1650	1130	600	2160	179	59	114
27	81	137	261	2020	4840	1440	1230	533	1370	170	55	118
28	89	136	275	2240	4800	1340	1410	513	1590	162	52	114
29	110	137	366	2170	4690	1580	1390	509	2370	153	61	111
30	130	161	591	2100	---	2480	1130	789	2650	166	62	102
31	131	---	803	2150	---	2970	---	1400	---	144	58	---
TOTAL	2858	4201	10255	35438	75975	174320	50465	38575	61132	53843	3258	4207
MEAN	92.2	140	331	1143	2620	5623	1682	1244	2038	1737	105	140
MAX	133	199	803	2240	4910	11800	3860	2660	2710	5180	186	266
MIN	62	115	188	384	762	1160	527	374	706	144	52	58
CFSM	.04	.07	.16	.55	1.27	2.73	.82	.60	.99	.84	.05	.07
IN.	.05	.08	.19	.64	1.37	3.14	.91	.70	1.10	.97	.06	.08
AC-FT	5670	8330	20340	70290	150700	345800	100100	76510	121300	106800	6460	8340

CAL YR 1975	TOTAL	1258746	MEAN	3449	MAX	20500	MIN	62	CFSM	1.67	IN	22.71	AC-FT	2497000
WTR YR 1976	TOTAL	514527	MEAN	1406	MAX	11800	MIN	52	CFSM	.68	IN	9.28	AC-FT	1021000

07364012 SALINE RIVER NEAR FOUNTAIN HILL, AR

LOCATION.--Lat 33°22'42", long 91°57'35", in sec.30 T.15 S., R.8 W., Ashley County, at bridge on State Highway 160, 8.0 mi (12.9 km) west of Fountain Hill.

PERIOD OF RECORD.--January 1972 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
28...	9827	9827	119	116	7.2	29.0	21.0	25	8	8.4
DEC										
02...	9827	9827	269	118	7.3	6.0	9.0	30	10	10.3
JAN										
06...	9827	9827	2390	122	7.2	4.0	6.0	30	35	11.5
FEB										
03...	9827	9827	1590	94	7.1	11.0	8.0	80	25	10.8
MAR										
01...	9827	9827	--	80	6.9	22.0	16.0	60	20	8.2
02...	9827	9827	3860	--	--	--	--	--	--	--
APR										
08...	9827	9827	4730	78	7.0	18.0	17.0	80	15	7.8
MAY										
05...	9827	9827	520	94	7.1	21.0	19.0	70	20	7.5
JUN										
02...	9827	9827	2850	111	7.4	23.0	23.0	45	<25	7.5
JUL										
01...	9827	9827	3590	120	6.9	26.0	26.0	90	40	6.2
AUG										
03...	9827	9827	205	131	7.2	22.0	28.0	50	20	5.3
SEP										
09...	9827	9827	307	160	7.3	22.0	25.0	30	20	4.2

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
28...	94	1.8	280	27	12	--	--	--	--	--
DEC										
02...	89	1.1	180	80	--	--	--	--	--	--
JAN										
06...	92	1.7	520	270	470	24	2	8.0	20	1.0
FEB										
03...	91	1.9	480	36	47	--	--	--	--	--
MAR										
01...	82	1.1	160	67	67	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
APR										
08...	80	1.2	160	27	--	22	6	6.0	16	1.0
MAY										
05...	80	.8	--	10	--	--	--	--	--	--
JUN										
02...	86	.5	300	67	--	--	--	--	--	--
JUL										
01...	76	--	300	67	--	34	17	8.0	20	3.0
AUG										
03...	67	1.1	80	<10	<7	--	--	--	--	--
SEP										
09...	50	2.6	--	350	--	--	--	--	--	--

07364012 SALINE RIVER NEAR FOUNTAIN HILL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
28...	--	--	--	--	--	--	48	6.5	88	8
DEC										
02...	--	--	--	--	--	--	20	6.5	92	6
JAN										
06...	5.6	2.1	27	0	22	2.7	28	6.0	95	35
FEB										
03...	--	--	--	--	--	--	17	7.0	91	16
MAR										
01...	--	--	--	--	--	--	17	7.5	68	23
02...	--	--	--	--	--	--	--	--	--	--
APR										
08...	4.8	1.3	20	0	16	3.2	9.0	5.5	69	22
MAY										
05...	--	--	--	--	--	--	10	7.0	89	7
JUN										
02...	--	--	--	--	--	--	14	5.0	79	27
JUL										
01...	--	--	21	0	17	4.2	4.0	18	110	29
AUG										
03...	--	--	--	--	--	--	11	8.5	102	11
SEP										
09...	--	--	--	--	--	--	6.0	13	97	36

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
28...	96	.10	.04	--	<10	0	<10	550	20	340
DEC										
02...	98	.14	<.01	--	--	--	<10	910	30	75
JAN										
06...	130	.19	.06	<3	<10	<3	<10	1200	90	190
FEB										
03...	107	.11	.05	--	--	--	20	1000	120	190
MAR										
01...	91	<.10	.02	--	--	--	20	810	110	150
02...	--	--	--	--	--	--	--	--	--	--
APR										
08...	91	.24	.06	<3	<10	<3	<10	1000	10	200
MAY										
05...	96	.26	.01	--	--	--	--	1500	10	240
JUN										
02...	106	.55	.07	--	--	--	<10	1200	20	77
JUL										
01...	139	.39	.07	<3	--	--	<10	2000	<10	140
AUG										
03...	113	.35	.06	--	--	--	10	1500	40	460
SEP										
09...	133	.17	.15	--	<10	--	<10	1000	10	300

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
28...	50	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
02...	<10	--	--	--	--	--	--	--	--
JAN									
06...	20	--	--	--	--	--	--	--	--
FEB									
03...	30	--	--	--	--	--	--	--	--
MAR									
01...	10	.00	.00	.00	.00	.00	.00	.00	<1
02...	--	--	--	--	--	--	--	--	--
APR									
08...	10	--	--	--	--	--	--	--	--
MAY									
05...	10	--	--	--	--	--	--	--	--
JUN									
02...	10	.00	.00	.00	.00	.00	.00	.00	<1
JUL									
01...	<10	--	--	--	--	--	--	--	--
AUG									
03...	20	.00	.00	.00	.00	.00	.00	.00	<1
SEP									
09...	20	.00	.00	.00	.00	.00	.00	.56	<1

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR

LOCATION.--Lat 33°01'55", long 92°05'15", in NE¼ sec.25, T.19 S., R.10 W., Union County, at Corps of Engineers Lock No. 6, 4.0 mi (6.4 km) southeast of Felsenthal.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1949 to current year.
WATER TEMPERATURES: October 1949 to current year.

COOPERATION.--Chemical analyses furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 7,610 micromhos Oct. 7, 1954; minimum daily, 44 micromhos May 19, 1958.
WATER TEMPERATURES: Maximum, 37.0°C July 11, 1969; minimum, 0.0°C Feb. 8, 12, 13, 1958, Dec. 22, 1963, Jan. 12, 1970.

EXTREMES FOR CURRENT YEAR:
SPECIFIC CONDUCTANCE: Maximum daily, 1,810 micromhos June 22; minimum daily, 66 micromhos Mar. 20.
WATER TEMPERATURES: Maximum, 36.0°C Aug. 5, 9, 10; minimum, 6.0°C Jan. 9, 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT 28...	9827	9827	1690	198	7.0	29.0	23.0	40	15	7.2
DEC 01...	9827	9827	4740	115	7.3	10.0	11.0	35	10	10.4
JAN 05...	9827	9827	8480	116	7.2	12.0	6.0	30	40	11.2
FEB 02...	9827	9827	9960	185	7.0	17.0	11.0	80	30	10.4
MAR 01...	9827	9827	--	165	6.7	24.0	18.0	50	25	8.0
APR 07...	9827	9827	--	85	6.9	27.0	20.0	65	20	7.9
MAY 04...	9827	9827	2400	95	7.0	26.0	21.0	80	20	7.7
JUN 01...	9827	9827	6420	108	7.4	25.0	24.0	45	<25	7.6
30...	9827	9827	15800	125	6.8	32.0	26.0	90	40	5.7
AUG 02...	9827	9827	1840	121	7.2	28.0	30.0	50	15	5.5
SEP 08...	9827	9827	3900	492	8.5	26.0	25.0	10	5	8.6
OCT 28...	9827	9827	1690	198	7.0	29.0	23.0	40	15	7.2
DEC 01...	9827	9827	4740	115	7.3	10.0	11.0	35	10	10.4
JAN 05...	9827	9827	8480	116	7.2	12.0	6.0	30	40	11.2
FEB 02...	9827	9827	9960	185	7.0	17.0	11.0	80	30	10.4
MAR 01...	9827	9827	--	165	6.7	24.0	18.0	50	25	8.0
APR 07...	9827	9827	--	85	6.9	27.0	20.0	65	20	7.9
MAY 04...	9827	9827	2400	95	7.0	26.0	21.0	80	20	7.7
JUN 01...	9827	9827	6420	108	7.4	25.0	24.0	45	<25	7.6
30...	9827	9827	15800	125	6.8	32.0	26.0	90	40	5.7
AUG 02...	9827	9827	1840	121	7.2	28.0	30.0	50	15	5.5
SEP 08...	9827	9827	3900	492	8.5	26.0	25.0	10	5	8.6

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)
OCT										
28...	82	.6	400	50	55	--	--	--	--	--
DEC										
01...	93	.8	340	190	--	--	--	--	--	--
JAN										
05...	89	1.6	760	330	400	32	9	11	28	1.0
FEB										
02...	94	2.4	1800	220	60	--	--	--	--	--
MAR										
01...	84	1.2	3500	490	40	--	--	--	--	--
APR										
07...	86	1.2	25	45	--	26	10	7.0	18	2.0
MAY										
04...	86	.9	--	33	--	--	--	--	--	--
JUN										
01...	89	.6	4600	2000	50	--	--	--	--	--
30...	70	--	500	55	--	34	19	7.0	18	4.0
AUG										
02...	72	1.3	250	50	10	--	--	--	--	--
SEP										
08...	102	2.2	--	2000	--	--	--	--	--	--
OCT										
28...	82	.6	400	50	55	--	--	--	--	--
DEC										
01...	93	.8	340	190	--	--	--	--	--	--
JAN										
05...	89	1.6	760	330	400	32	9	11	28	1.0
FEB										
02...	94	2.4	1800	220	60	--	--	--	--	--
MAR										
01...	84	1.2	3500	490	40	--	--	--	--	--
APR										
07...	86	1.2	25	45	--	26	10	7.0	18	2.0
MAY										
04...	86	.9	--	33	--	--	--	--	--	--
JUN										
01...	89	.6	4600	2000	50	--	--	--	--	--
30...	70	--	500	55	--	34	19	7.0	18	4.0
AUG										
02...	72	1.3	250	50	10	--	--	--	--	--
SEP										
08...	102	2.2	--	2000	--	--	--	--	--	--

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
28...	--	--	--	--	--	--	11	46	156	13
DEC										
01...	--	--	--	--	--	--	25	7.0	95	8
JAN										
05...	5.5	2.1	28	0	23	2.8	30	7.0	94	33
FEB										
02...	--	--	--	--	--	--	14	38	129	43
MAR										
01...	--	--	--	--	--	--	9.0	34	114	30
APR										
07...	4.1	1.2	20	0	16	4.0	15	7.0	74	28
MAY										
04...	--	--	--	--	--	--	7.0	7.0	93	1
JUN										
01...	--	--	--	--	--	--	14	4.5	79	38
30...	--	--	18	0	15	4.6	5.0	18	115	27
AUG										
02...	--	--	--	--	--	--	8.0	6.0	93	12
SEP										
08...	--	--	--	--	--	--	37	65	274	4
OCT										
28...	--	--	--	--	--	--	11	46	156	13
DEC										
01...	--	--	--	--	--	--	25	7.0	95	8
JAN										
05...	5.5	2.1	28	0	23	2.8	30	7.0	94	33
FEB										
02...	--	--	--	--	--	--	14	38	129	43
MAR										
01...	--	--	--	--	--	--	9.0	34	114	30
APR										
07...	4.1	1.2	20	0	16	4.0	15	7.0	74	28
MAY										
04...	--	--	--	--	--	--	7.0	7.0	93	1
JUN										
01...	--	--	--	--	--	--	14	4.5	79	38
30...	--	--	18	0	15	4.6	5.0	18	115	27
AUG										
02...	--	--	--	--	--	--	8.0	6.0	93	12
SEP										
08...	--	--	--	--	--	--	37	65	274	4

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
28...	170	--	--	--	--	--	--	--	--
DEC									
01...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
05...	10	--	--	--	--	--	--	--	--
FEB									
02...	20	--	--	--	--	--	--	--	--
MAR									
01...	20	--	--	--	--	--	--	--	--
APR									
07...	10	--	--	--	--	--	--	--	--
MAY									
04...	20	--	--	--	--	--	--	--	--
JUN									
01...	10	--	--	--	--	--	--	--	--
30...	<10	--	--	--	--	--	--	--	--
AUG									
02...	10	--	--	--	--	--	--	--	--
SEP									
08...	20	--	--	--	--	--	--	--	--
OCT									
28...	170	--	--	--	--	--	--	--	--
DEC									
01...	<10	.00	.00	.00	.00	.00	.00	.00	<1
JAN									
05...	10	--	--	--	--	--	--	--	--
FEB									
02...	20	--	--	--	--	--	--	--	--
MAR									
01...	20	--	--	--	--	--	--	--	--
APR									
07...	10	--	--	--	--	--	--	--	--
MAY									
04...	20	--	--	--	--	--	--	--	--
JUN									
01...	10	--	--	--	--	--	--	--	--
30...	<10	--	--	--	--	--	--	--	--
AUG									
02...	10	--	--	--	--	--	--	--	--
SEP									
08...	20	--	--	--	--	--	--	--	--

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
28...	169	.61	.04	--	--	0	<10	790	40	330
DEC										
01...	103	.32	.02	--	--	--	<10	880	10	67
JAN										
05...	127	.15	.08	<3	<10	<3	<10	1200	30	200
FEB										
02...	172	.16	.06	--	--	--	<10	1100	30	190
MAR										
01...	144	.25	.04	--	--	--	50	1100	60	250
APR										
07...	102	<.10	.06	<3	<10	<3	<10	1000	30	160
MAY										
04...	92	.22	.06	--	--	--	<10	1600	30	290
JUN										
01...	117	.55	.09	--	--	--	<10	1100	<10	97
30...	142	.32	.08	<3	--	--	<10	1900	<10	86
AUG										
02...	105	.38	.05	--	--	--	10	1500	30	460
SEP										
08...	278	<.10	.03	--	<10	--	<10	180	20	130
OCT										
28...	169	.61	.04	--	--	0	<10	790	40	330
DEC										
01...	103	.32	.02	--	--	--	<10	880	10	67
JAN										
05...	127	.15	.08	<3	<10	<3	<10	1200	30	200
FEB										
02...	172	.16	.06	--	--	--	<10	1100	30	190
MAR										
01...	144	.25	.04	--	--	--	50	1100	60	250
APR										
07...	102	<.10	.06	<3	<10	<3	<10	1000	30	160
MAY										
04...	92	.22	.06	--	--	--	<10	1600	30	290
JUN										
01...	117	.55	.09	--	--	--	<10	1100	<10	97
30...	142	.32	.08	<3	--	--	<10	1900	<10	86
AUG										
02...	105	.38	.05	--	--	--	10	1500	30	460
SEP										
08...	278	<.10	.03	--	<10	--	<10	180	20	130

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	230	264	320	203	157	175	228	326	120	213	190
2	296	248	226	319	200	145	178	218	250	42	208	180
3	282	290	302	328	196	144	150	261	211	43	204	197
4	283	419	284	218	196	138	147	264	213	239	206	237
5	284	342	347	238	201	143	143	248	194	199	212	240
6	326	324	334	237	---	188	146	225	195	150	177	236
7	350	512	448	239	242	187	146	253	206	198	178	234
8	367	796	404	242	250	260	144	264	206	115	178	334
9	404	714	327	237	219	376	135	319	389	108	197	302
10	413	648	287	236	244	180	137	404	275	119	179	770
11	415	521	287	217	209	136	135	258	197	94	180	596
12	406	470	261	215	194	106	141	168	178	106	186	406
13	379	472	261	192	182	114	160	153	180	107	187	339
14	390	518	263	192	176	101	162	170	136	119	205	312
15	390	454	268	183	179	87	185	186	120	107	199	270
16	335	303	310	183	188	85	189	240	119	125	213	255
17	311	636	313	191	202	83	209	145	134	148	252	230
18	486	423	299	203	214	78	225	217	135	156	249	296
19	254	343	334	215	229	78	242	178	565	161	267	283
20	231	347	336	264	411	66	269	172	181	158	228	381
21	230	344	435	272	252	75	269	169	173	161	270	394
22	225	307	397	288	158	76	308	164	1810	166	182	298
23	220	309	260	350	175	80	324	1790	119	151	371	367
24	212	216	230	298	158	83	363	1790	116	154	214	386
25	205	229	219	294	143	98	356	180	127	239	195	677
26	204	335	197	330	141	105	370	177	145	237	183	406
27	203	306	215	466	144	116	272	163	208	222	184	462
28	202	276	230	277	139	121	208	178	334	222	200	386
29	201	243	233	292	146	130	205	301	140	243	202	394
30	206	259	264	207	---	144	234	300	140	298	207	385
31	211	---	321	210	---	171	---	399	---	217	182	---
MONTH	298	394	295	257	200	131	211	328	257	159	210	348

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	21.0	12.0	8.0	12.5	16.0	18.0	20.0	23.0	25.5	30.5	28.0
2	24.0	21.0	11.5	7.5	11.0	15.5	18.5	21.0	24.0	24.5	34.5	26.5
3	23.5	20.5	11.0	7.5	11.0	17.5	20.5	20.0	23.0	25.0	31.5	25.0
4	23.5	20.5	11.0	7.5	12.5	18.0	19.0	22.5	23.0	25.5	32.5	27.0
5	23.5	20.5	11.0	7.0	14.0	17.0	18.0	21.5	23.5	25.5	36.0	26.5
6	23.0	20.0	11.0	7.0	14.0	16.0	17.5	22.0	23.0	26.0	34.5	26.5
7	22.5	20.0	11.0	6.5	11.5	16.5	19.0	19.5	23.5	26.5	35.0	25.5
8	22.5	19.5	11.5	7.5	10.5	15.5	20.0	21.0	24.0	27.5	35.0	25.5
9	22.5	19.5	11.5	6.0	11.0	15.0	20.0	22.0	25.0	27.5	36.0	25.5
10	23.0	19.0	11.5	6.0	13.5	13.5	20.0	22.5	25.0	26.5	36.0	24.5
11	23.0	19.0	11.0	6.5	13.5	15.5	20.0	22.0	25.5	26.0	35.5	24.5
12	23.0	19.0	11.0	7.0	14.0	17.5	20.0	22.5	26.0	27.0	33.5	25.0
13	23.5	18.5	11.0	7.0	13.5	13.0	20.0	19.0	26.0	26.5	32.5	25.0
14	23.0	18.5	11.5	7.0	14.0	14.5	20.5	20.5	25.0	27.5	32.5	25.0
15	23.0	18.5	11.5	6.5	14.0	15.0	21.0	20.0	25.5	27.5	32.5	25.0
16	22.5	18.0	11.5	6.5	15.0	14.0	22.0	20.0	25.5	27.0	30.5	26.5
17	22.5	18.0	11.5	6.5	17.0	16.5	22.0	22.0	27.0	28.0	30.5	24.5
18	22.5	17.0	11.0	5.5	16.0	17.0	22.0	21.0	24.5	27.5	29.5	25.0
19	22.5	16.5	11.0	9.5	17.5	17.0	22.5	22.0	25.5	28.0	28.5	25.0
20	22.0	16.0	10.5	9.0	20.0	17.5	21.5	21.0	24.0	28.5	29.5	25.0
21	20.0	16.0	10.0	9.5	15.0	17.0	22.5	22.0	24.5	28.0	29.5	26.0
22	22.0	15.5	10.0	10.0	15.5	16.0	23.0	22.0	24.0	28.0	28.0	25.0
23	21.5	15.0	9.5	10.0	15.0	16.5	23.0	21.5	24.5	29.0	27.0	23.5
24	21.5	14.5	9.5	---	15.5	17.0	23.0	22.0	25.0	30.0	27.0	25.5
25	21.5	14.0	9.0	11.0	15.5	17.0	22.5	22.0	25.0	30.0	27.0	25.0
26	21.5	14.0	9.0	12.0	16.0	20.0	21.5	22.0	25.5	34.5	28.5	26.5
27	21.5	13.5	8.5	10.0	16.0	17.0	21.0	21.5	26.0	33.5	31.5	26.5
28	21.0	13.5	8.5	13.5	15.5	19.0	23.0	22.0	26.0	32.0	31.5	25.0
29	21.0	13.0	8.0	14.0	16.0	19.5	20.5	23.0	26.0	30.0	27.5	25.0
30	21.0	12.5	8.0	10.5	---	18.0	18.5	23.0	25.5	33.5	28.5	23.5
31	21.0	---	8.5	13.5	---	18.5	---	24.0	---	33.5	28.0	---
MONTH	22.5	17.5	10.5	8.5	14.5	16.5	20.5	21.5	25.0	28.0	31.5	25.5

07364088 COFFEE CREEK NEAR CROSSETT, AR

LOCATION.--Lat 33°06'18", long 92°02'07", in sec.33 T.18 S., R.9 W., Ashley County, below mill pond, at bridge on county road, 2.5 mi (4.0 km) southwest of Crossett.

PERIOD OF RECORD.--January 1972 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
OCT												
28...	9827	9827	1550	7.6	26.0	23.0	2000	35	.0	0	54	1400000
DEC												
01...	9827	9827	1770	7.8	11.0	16.0	1800	160	.0	0	150	420000
02...	9827	9827	--	--	--	--	--	--	--	--	--	--
FEB												
02...	9827	9827	2030	7.5	16.0	17.0	2000	55	.0	0	220	2200000
MAR												
01...	9827	9827	1850	7.8	29.0	24.0	2000	95	.0	0	150	3300000
APR												
07...	9827	9827	1780	7.9	29.0	28.0	2200	80	.0	0	760	660000
MAY												
04...	9827	9827	1910	7.8	26.0	26.0	2500	85	.0	0	61	--
JUN												
01...	9827	9827	2000	7.8	25.0	27.0	1200	210	.0	0	40	1000000
30...	9827	9827	2100	7.9	34.0	32.0	1500	80	.0	0	--	880000
AUG												
02...	9827	9827	2550	8.0	30.0	34.0	1000	650	.0	0	36	5200

DATE	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
28...	400000	3800	--	--	--	--	--	--	--	--	--	--
DEC												
01...	760000	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
02...	21000	3300	--	--	--	--	--	--	--	--	--	--
MAR												
01...	27000	5600	--	--	--	--	--	--	--	--	--	--
APR												
07...	--	--	200	0	64	160	10	300	11	330	0	271
MAY												
04...	190000	1200	--	--	--	--	--	--	--	--	--	--
JUN												
01...	<2000	100	--	--	--	--	--	--	--	--	--	--
30...	>880000	--	210	0	64	160	12	--	--	420	0	344
AUG												
02...	<200	400	--	--	--	--	--	--	--	--	--	--

07364088 COFFEE CREEK NEAR CROSSETT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)
OCT												
28...	--	240	340	1270	50	1320	<.10	.53	--	--	0	<10
DEC												
01...	--	140	360	--	--	--	<.10	.30	--	--	--	10
02...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
02...	--	320	380	1670	90	1760	<.10	.60	--	--	--	30
MAR												
01...	--	140	320	1370	110	1480	<.10	.44	--	--	--	10
APR												
07...	6.6	120	350	1270	30	1300	<.10	.46	<3	<10	<3	20
MAY												
04...	--	140	340	1410	60	1470	<.10	.30	--	--	--	<10
JUN												
01...	--	270	350	1430	50	1480	<.10	.35	--	--	--	30
30...	8.5	140	360	1470	70	1540	<.10	.41	<3	--	--	40
AUG												
02...	--	310	400	1700	70	1770	<.10	.20	--	--	--	20

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
28...	770	--	1500	70	--	--	--	--	--	--	--	--
DEC												
01...	1400	100	1300	70	--	--	--	--	--	--	--	--
02...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	<1
FEB												
02...	1400	150	1400	250	--	--	--	--	--	--	--	--
MAR												
01...	1200	120	1600	40	--	--	--	--	--	--	--	--
APR												
07...	820	70	1600	70	--	--	--	--	--	--	--	--
MAY												
04...	1100	130	1500	100	--	--	--	--	--	--	--	--
JUN												
01...	1000	80	1700	70	--	--	--	--	--	--	--	--
30...	1100	180	1400	60	--	--	--	--	--	--	--	--
AUG												
02...	990	--	9900	80	--	--	--	--	--	--	--	--

07364115 BAYOU BARTHOLOMEW NEAR LADD, AR

LOCATION.--Lat 34°06'24", long 91°54'06", in NW¼ sec.22, T.7 S., R.8 W., Jefferson County, at bridge on county road 2.2 mi (3.5 km) south of Ladd.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
27...	9827	9827	8.0	136	7.3	16.0	16.0	15	15	5.1
DEC										
01...	9827	9827	22	146	7.3	6.0	10.0	35	15	8.2
JAN										
05...	9827	9827	--	124	7.0	.0	4.0	80	40	9.3
FEB										
02...	9827	9827	42	73	6.8	5.0	7.0	250	70	8.4
MAR										
01...	9827	9827	41	76	6.8	23.0	18.0	100	70	6.2
APR										
07...	9827	9827	44	84	6.8	16.0	18.0	100	20	5.5
MAY										
04...	9827	9827	7.0	113	6.9	16.0	17.0	60	55	5.0
JUN										
01...	9827	9827	53	112	7.0	23.0	23.0	80	<25	4.4
30...	9827	9827	11	115	7.2	28.0	28.0	120	55	4.4
AUG										
02...	9827	9827	2.0	105	7.0	25.0	28.0	100	30	3.2
SEP										
08...	9827	9827	19	142	7.3	24.0	24.0	40	20	3.8

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
27...	51	2.5	--	640	370	--	--	--	--	--
DEC										
01...	72	3.2	1700	290	--	--	--	--	--	--
JAN										
05...	71	2.1	12000	3400	8000	22	0	6.0	16	1.0
FEB										
02...	69	2.0	1000	100	70	--	--	--	--	--
MAR										
01...	65	2.0	20	40	100	--	--	--	--	--
APR										
07...	58	1.9	1000	280	--	22	5	7.0	18	1.0
MAY										
04...	52	2.0	--	84	--	--	--	--	--	--
JUN										
01...	51	3.5	<200	55	250	--	--	--	--	--
30...	56	--	1000	100	--	36	0	8.0	20	4.0
AUG										
02...	41	2.6	250	37	50	--	--	--	--	--
SEP										
08...	45	2.0	--	2700	--	--	--	--	--	--

07364115 BAYOU BARTHOLOMEW NEAR LADD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
27...	--	--	--	--	--	--	10	12	121	33
DEC										
01...	--	--	--	--	--	--	7.0	12	110	26
JAN										
05...	9.7	5.1	29	0	24	4.6	14	12	110	28
FEB										
02...	--	--	--	--	--	--	8.0	8.5	124	30
MAR										
01...	--	--	--	--	--	--	7.0	7.0	91	59
APR										
07...	6.0	3.0	21	0	17	5.3	8.0	7.5	115	40
MAY										
04...	--	--	--	--	--	--	9.0	10	111	41
JUN										
01...	--	--	--	--	--	--	4.0	8.0	96	58
30...	--	--	45	0	37	4.5	4.0	6.5	123	38
AUG										
02...	--	--	--	--	--	--	1.0	7.0	103	23
SEP										
08...	--	--	--	--	--	--	5.0	12	95	30

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
27...	154	.26	.11	--	--	--	<10	1200	--	610
DEC										
01...	136	.20	.12	--	--	--	20	1800	--	330
JAN										
05...	138	.28	.25	<3	<10	<3	<10	3300	180	120
FEB										
02...	154	.24	.22	--	--	--	10	2800	--	140
MAR										
01...	150	.24	.28	--	--	--	<10	3500	--	320
APR										
07...	155	.25	.25	<3	<10	<3	10	3700	20	1500
MAY										
04...	152	.40	.19	--	--	--	<10	3200	--	500
JUN										
01...	154	.49	<.01	--	--	--	20	3500	--	430
30...	161	.12	.34	<3	--	--	<10	3000	--	580
AUG										
02...	126	.37	.42	--	--	--	<10	2800	--	1100
SEP										
08...	125	.16	.13	--	<10	--	<10	1200	--	340

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
27...	50	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
01...	20	--	--	--	--	--	--	--	--
JAN									
05...	20	--	--	--	--	--	--	--	--
FEB									
02...	40	--	--	--	--	--	--	--	--
MAR									
01...	10	.00	.00	.00	.01	.00	.00	.00	<1
APR									
07...	30	--	--	--	--	--	--	--	--
MAY									
04...	20	--	--	--	--	--	--	--	--
JUN									
01...	100	.00	.00	.00	.01	.01	.00	.00	<1
30...	<10	.00	.00	.00	.00	.00	.00	.00	<1
AUG									
02...	10	--	--	--	--	--	--	--	--
SEP									
08...	20	.00	.00	.00	.00	.00	.00	.62	1

07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE, AR

LOCATION.--Lat 33°37'40", long 91°26'45", in NE¼SW¼ sec.30, T.12 S., R.3 W., Desha County, near center of stream on downstream side of bridge on State Highway 4, 2.7 mi (4.3 km) west of McGehee, 17.5 mi (28.2 km) downstream from Ables Creek, and at mile 200.5 (322.6 km).

DRAINAGE AREA.--592 mi^2 (1,533 km^2).

PERIOD OF RECORD.--October 1938 to September 1942, October 1945 to current year. Gage-height records collected and occasional discharge measurements made by Corps of Engineers at this site since August 1938. Daily stages 1940 to date and results of discharge measurements 1938, 1947 to date are published in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 120.48 ft (36.722 m) above mean sea level, supplementary adjustment of 1941. Prior to Sept. 7, 1949, nonrecording gage at same site. October 1938 to June 6, 1972, at datum 1.00 ft (0.305 m) higher. Since Jan. 20, 1971, auxiliary water-stage recorder 14 mi (23 km) upstream.

REMARKS.--Records good. Some diversions above station for irrigation.

AVERAGE DISCHARGE.--35 years (1939-42, 1946-76), 679 ft^3/s (19.2 m^3/s), 15.58 in/yr (396 mm/yr), 491,900 acre-ft acre-ft/yr (607 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,870 ft^3/s (195 m^3/s) May 11, 1958, gage height, 25.49 ft (7.769 m), present datum; minimum, 0.20 ft^3/s (0.006 m^3/s) Aug. 15-23, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1930, that of May 11, 1958. Flood in 1932 reached a stage of 23.4 ft (7.13 m), present datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,630 ft^3/s (74.5 m^3/s) Mar. 16; maximum gage height, 16.16 ft (4.926 m) Mar. 17; minimum discharge, 44 ft^3/s (1.25 m^3/s) Aug. 20, 21, gage height, 2.40 ft (0.732 m).

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	85	63	185	128	556	1130	1400	133	156	136	55	74
2	77	62	205	169	535	1060	1420	148	154	123	55	85
3	71	66	198	281	497	991	1390	158	161	120	57	119
4	66	83	177	377	458	913	1320	162	172	144	62	152
5	63	73	172	417	463	974	1220	163	178	273	67	192
6	61	96	167	396	679	986	1100	161	176	388	72	243
7	60	101	200	376	767	973	976	159	167	398	76	283
8	59	83	227	371	795	1140	850	158	155	348	78	300
9	58	71	232	381	812	1530	731	156	139	286	76	307
10	57	66	216	383	834	1740	618	156	126	238	72	317
11	56	63	195	375	859	1930	521	159	114	215	67	330
12	56	60	176	357	866	2160	443	168	106	205	62	338
13	55	58	162	340	850	2350	384	193	100	195	57	335
14	55	57	152	326	815	2500	337	221	93	181	53	315
15	55	55	143	310	770	2590	305	240	85	164	51	291
16	56	54	133	291	718	2630	282	247	85	143	52	262
17	57	54	124	270	674	2620	260	238	87	124	51	227
18	57	55	116	248	846	2570	237	226	93	110	50	194
19	56	55	109	228	931	2500	214	223	101	100	47	162
20	55	57	105	210	980	2420	193	232	104	93	45	134
21	54	57	105	194	1110	2360	173	249	104	87	45	110
22	54	57	112	178	1240	2260	154	263	99	81	47	93
23	54	57	126	163	1290	2140	139	272	92	75	51	80
24	54	56	135	151	1310	2010	131	274	91	71	55	72
25	60	56	144	159	1310	1850	126	268	109	67	56	67
26	64	67	148	212	1310	1680	118	252	150	63	56	64
27	64	89	143	314	1280	1540	112	238	172	62	55	61
28	64	88	136	476	1240	1400	112	219	175	60	55	59
29	64	86	132	506	1190	1280	115	201	164	58	58	57
30	64	119	130	537	---	1290	122	184	150	60	63	54
31	64	---	129	557	---	1350	---	167	---	57	68	---
TOTAL	1875	2064	4834	9681	25985	54867	15503	6288	3858	4725	1814	5377
MEAN	60.5	68.8	156	312	896	1770	517	203	129	152	58.5	179
MAX	85	119	232	557	1310	2630	1420	274	178	398	78	338
MIN	54	54	105	128	458	913	112	133	85	57	45	54
CFSM	.10	.12	.26	.53	1.51	2.99	.87	.34	.22	.26	.10	.30
IN.	.12	.13	.30	.61	1.63	3.45	.97	.40	.24	.30	.11	.34
AC-FT	3720	4090	9590	19200	51540	108800	30750	12470	7650	9370	3600	10670

CAL YR 1975	TOTAL 345582	MEAN 947	MAX 3690	MIN 54	CFSM 1.60	IN 21.72	AC-FT 685500			
WTR YR 1976	TOTAL 136871	MEAN 374	MAX 2630	MIN 45	CFSM .63	IN 8.60	AC-FT 271500			

07364600 BAYOU DE LOUTRE NEAR EL DORADO, AR

LOCATION.--Lat 33°05'55", long 92°35'32", in SE¼NW¼ sec.6, T.19 S., R.14 W., Union County, at bridge on county road 0.8 mi (1.3 km) downstream from Highbank Creek, and 8.5 mi (13.7 km) southeast of El Dorado.

PERIOD OF RECORD.--October 1970 to current year.

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
13...	9827	9827	19	3500	7.3	25.0	23.0	25	20	5.1
14...	9827	9827	--	--	--	--	--	--	--	--
NOV										
17...	9827	9827	19	3240	7.4	19.0	13.0	40	5	7.1
DEC										
08...	9827	9827	55	2190	7.0	11.0	11.0	30	6	6.5
JAN										
20...	9827	9827	59	2440	7.2	10.0	10.0	25	6	9.0
FEB										
18...	9827	9827	129	1450	7.0	13.0	15.0	60	30	4.2
MAR										
17...	9827	9827	100	1360	7.2	16.0	14.0	55	9	7.8
APR										
19...	9827	9827	19	3250	8.1	30.0	26.0	55	15	13.7
MAY										
18...	9827	9827	29	2980	7.3	35.0	24.0	40	10	6.4
JUN										
15...	9827	9827	9.0	4230	7.6	26.0	25.0	60	<25	6.6
JUL										
20...	9827	9827	--	4650	7.6	36.0	30.0	50	9	8.7
21...	9827	9827	47	--	--	--	--	--	--	--
AUG										
17...	9827	9827	--	7500	7.1	34.0	29.0	10	4	3.3
SEP										
21...	9827	9827	--	3140	7.2	25.0	24.0	10	9	2.5

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
13...	58	3.7	<34	120	20	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	67	2.9	--	360	50	350	260	100	270	19
DEC										
08...	58	1.6	400	280	130	--	--	--	--	--
JAN										
20...	80	3.0	840	190	310	--	--	--	--	--
FEB										
18...	41	4.0	22000	13000	5000	150	120	43	110	10
MAR										
17...	75	2.0	1800	380	--	--	--	--	--	--
APR										
19...	167	13	--	--	<10	--	--	--	--	--
MAY										
18...	75	3.7	<50	73	<10	340	290	92	230	27
JUN										
15...	79	4.8	200	210	--	--	--	--	--	--
JUL										
20...	114	6.8	<13	400	900	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	42	3.2	10	170	50	840	830	270	680	39
SEP										
21...	29	4.0	>230	230	200	--	--	--	--	--

07364600 BAYOU DE LOUTRE NEAR EL DORADO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
13...	--	--	--	--	--	--	100	1400	2610	60
14...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	610	13	110	0	90	7.0	60	1300	2150	23
DEC										
08...	--	--	--	--	--	--	40	900	1500	22
JAN										
20...	--	--	--	--	--	--	42	950	1440	12
FEB										
18...	220	53	36	0	30	5.8	18	500	911	50
MAR										
17...	--	--	--	--	--	--	15	600	831	65
APR										
19...	--	--	--	--	--	--	53	1000	1800	230
MAY										
18...	400	7.2	66	0	54	5.3	41	800	1720	108
JUN										
15...	--	--	--	--	--	--	85	2000	2370	10
JUL										
20...	--	--	--	--	--	--	56	1400	2600	10
21...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	310	26	17	0	14	2.2	45	2400	4550	40
SEP										
21...	--	--	--	--	--	--	58	880	1850	40

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
13...	2670	1.4	.25	--	<10	0	10	850	50	700
14...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	2170	.99	.25	<3	10	0	<10	680	<10	470
DEC										
08...	1520	.94	.14	--	<10	--	<10	500	--	960
JAN										
20...	1450	1.1	.11	--	<10	--	30	640	80	1200
FEB										
18...	961	.48	.09	<3	<10	<3	20	1800	40	1800
MAR										
17...	896	.69	.10	--	--	--	10	1400	160	500
APR										
19...	2030	.69	.39	--	<10	<3	<10	1100	30	440
MAY										
18...	1820	.65	.26	<3	<10	<3	10	900	70	610
JUN										
15...	2380	.82	.50	--	10	--	20	970	50	1100
JUL										
20...	2590	.88	.30	--	<10	--	<10	550	<10	550
21...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	4510	.80	.78	<3	<10	--	10	540	40	1300
SEP										
21...	1910	.53	.10	--	<10	--	20	1500	90	2600

RED RIVER BASIN

07364600 BAYOU DE LOUTRE NEAR EL DORADO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT									
13...	40	.00	.00	.00	.00	.00	.00	--	--
14...	--	--	--	--	--	--	--	.00	<1
NOV									
17...	10	--	--	--	--	--	--	--	--
DEC									
08...	20	--	--	--	--	--	--	--	--
JAN									
20...	50	--	--	--	--	--	--	--	--
FEB									
18...	<10	--	--	--	--	--	--	--	--
MAR									
17...	40	--	--	--	--	--	--	--	--
APR									
19...	30	--	--	--	--	--	--	--	--
MAY									
18...	30	--	--	--	--	--	--	--	--
JUN									
15...	40	--	--	--	--	--	--	--	--
JUL									
20...	20	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
AUG									
17...	10	--	--	--	--	--	--	--	--
SEP									
21...	50	--	--	--	--	--	--	--	--

07365800 CORNIE BAYOU NEAR THREE CREEKS, AR

LOCATION.--Lat 33°02'21", long 92°56'15", in SW¼NW¼ sec.36, T.19 S., R.18 W., Union County, on left bank at downstream side of bridge on State Highway 15, 3.4 mi (5.5 km) downstream from Pidgeon Roost Creek, 6.0 mi (9.7 km) southwest of town of Three Creeks.

DRAINAGE AREA.--180 mi^2 (466 km^2).

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

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

REMARKS.--Records good except those for periods of no gage-height record, Dec. 17 to Jan. 16, which are fair.

AVERAGE DISCHARGE.--20 years, 183 ft^3/s (5.18 m^3/s), 13.81 in/yr (351 mm/yr), 132,600 acre-ft/yr (163 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,000 ft^3/s (1,840 m^3/s) June 8, 1974, gage height, 17.50 ft (5.334 m), from rating curve extended above 11,000 ft^3/s (312 m^3/s) on basis of contracted-opening measurement at 35,800 ft^3/s (1,010 m^3/s); no flow at times in 1956, 1964, 1968, 1969, 1970, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, that of June 8, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft^3/s (40 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 9	1900	*8,620	244	12.31	3.752
May 29	0700	1,500	42.5	10.20	3.109

Minimum discharge, 0.2 ft^3/s (0.006 m^3/s) Aug. 28, 29.

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	6.3	17	103	60	100	60	475	19	254	152	4.4	.80
2	6.3	15	143	80	82	56	516	21	155	60	4.8	.82
3	6.1	18	98	120	69	53	416	21	105	43	5.0	.70
4	5.9	49	51	150	60	49	221	18	60	57	4.5	1.1
5	5.9	105	37	100	57	58	140	15	40	194	4.2	1.2
6	6.1	83	31	70	154	196	107	13	30	385	4.4	2.7
7	5.7	38	28	50	202	340	88	11	29	564	3.9	4.4
8	6.1	24	26	40	228	716	75	12	48	510	3.2	4.5
9	6.1	19	26	40	182	5080	64	13	123	196	2.6	3.3
10	6.5	16	24	35	114	3970	55	13	62	158	2.2	2.2
11	6.5	14	23	35	88	1140	48	12	31	315	1.8	1.6
12	6.1	13	22	30	78	700	43	11	21	280	1.4	1.1
13	6.1	12	21	30	72	556	40	10	16	269	1.3	.89
14	6.3	10	20	30	66	470	38	12	15	136	1.5	2.7
15	5.9	10	21	25	60	382	37	55	13	51	1.4	64
16	5.9	9.8	33	25	54	323	34	90	63	39	.98	48
17	5.9	9.6	45	25	58	281	32	60	292	74	.76	23
18	6.1	9.8	70	20	212	208	28	38	375	50	.72	12
19	6.9	10	45	20	237	158	25	24	425	41	.68	38
20	7.2	11	30	25	264	133	24	16	441	28	.64	56
21	6.7	15	25	60	338	130	26	13	414	22	.50	44
22	7.2	21	25	100	398	181	26	9.6	221	17	.50	25
23	7.6	22	20	60	382	214	24	8.1	73	16	.50	14
24	8.9	18	20	50	370	154	24	7.3	43	14	.50	9.7
25	14	16	25	120	236	137	30	6.8	73	12	.60	7.1
26	36	18	45	270	125	182	27	6.8	261	10	.50	5.3
27	68	32	75	660	92	275	22	165	357	8.3	.30	3.8
28	51	49	95	592	77	333	17	427	398	6.6	.20	3.8
29	34	47	70	510	66	403	15	1260	387	5.9	.20	5.2
30	25	53	60	266	---	441	16	770	291	5.5	.40	7.1
31	20	---	70	136	---	425	---	525	---	4.8	.64	---
TOTAL	402.3	784.2	1427	3834	4521	17804	2733	3682.6	5116	3724.1	55.22	394.01
MEAN	13.0	26.1	46.0	124	156	574	91.1	119	171	120	1.78	13.1
MAX	68	105	143	660	398	5080	516	1260	441	564	5.0	64
MIN	5.7	9.6	20	20	54	49	15	6.8	13	4.8	.20	.70
CFSM	.07	.15	.26	.69	.87	3.19	.51	.66	.95	.67	.009	.07
IN.	.08	.16	.29	.79	.93	3.68	.56	.76	1.06	.77	.01	.08
AC-FT	798	1560	2830	7600	8970	35310	5420	7300	10150	7390	110	782

CAL YR 1975 TOTAL 116117.70 MEAN 318 MAX 7090 MIN 5.7 CFSM 1.77 IN 24.00 AC-FT 230300
WTR YR 1976 TOTAL 44477.43 MEAN 122 MAX 5080 MIN .20 CFSM .68 IN 9.19 AC-FT 88220

07367666 BIG BAYOU NEAR JEROME, AR

LOCATION.--Lat 33°23'20", long 91°25'30", in SE¼ sec.17, T.15 S., R.3 W., Chicot County, at bridge on State Highway 144, 2.5 mi (4.0 km) southeast of Jerome.

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

COOPERATION.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)
OCT										
27...	9827	9827	40	547	7.9	17.0	18.0	30	15	8.4
DEC										
01...	9827	9827	710	84	7.0	11.0	11.0	200	210	8.1
JAN										
05...	9827	9827	--	110	7.3	2.0	4.0	120	150	12.5
FEB										
02...	9827	9827	85	120	7.5	10.0	9.0	200	120	10.4
MAR										
01...	9827	9827	10	118	7.5	24.0	18.0	200	110	7.7
APR										
07...	9827	9827	25	222	7.5	26.0	20.0	300	100	5.1
MAY										
04...	9827	9827	63	388	7.9	18.0	19.0	50	35	7.6
JUN										
01...	9827	9827	85	568	7.6	21.0	24.0	40	<25	6.1
30...	9827	9827	85	403	7.4	29.0	29.0	60	30	6.0
AUG										
02...	9827	9827	100	515	7.7	28.0	30.0	40	35	5.9
SEP										
08...	9827	9827	65	156	7.2	26.0	25.0	40	15	4.2

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)
OCT										
27...	88	1.5	13000	600	280	--	--	--	--	--
DEC										
01...	73	5.0	1400	4100	--	--	--	--	--	--
JAN										
05...	95	3.8	2000	550	720	36	4	9.0	22	3.0
FEB										
02...	90	2.8	1200	200	220	--	--	--	--	--
MAR										
01...	81	1.7	500	170	20	--	--	--	--	--
APR										
07...	55	2.2	2400	210	--	60	3	16	40	5.0
MAY										
04...	81	1.0	--	13	--	--	--	--	--	--
JUN										
01...	72	1.8	--	--	--	--	--	--	--	--
30...	77	--	6000	88	--	110	28	25	62	10
AUG										
02...	78	2.8	400	25	<20	--	--	--	--	--
SEP										
08...	50	2.6	--	4200	--	--	--	--	--	--

07367666 BIG BAYOU NEAR JEROME, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)
OCT										
27...	--	--	--	--	--	--	60	88	397	12
DEC										
01...	--	--	--	--	--	--	2.0	12	173	220
JAN										
05...	7.1	6.8	39	0	32	3.1	2.0	10	145	116
FEB										
02...	--	--	--	--	--	--	6.0	12	214	33
MAR										
01...	--	--	--	--	--	--	2.0	8.0	195	49
APR										
07...	17	6.1	70	0	57	3.5	2.0	22	206	63
MAY										
04...	--	--	--	--	--	--	18	44	244	21
JUN										
01...	--	--	--	--	--	--	46	94	367	32
30...	--	--	100	--	82	6.4	17	53	269	31
AUG										
02...	--	--	--	--	--	--	12	66	322	51
SEP										
08...	--	--	--	--	--	--	5.0	13	104	23

DATE	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CADMIUM (CD) (UG/L) (01027)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)
OCT										
27...	409	.91	.23	--	--	--	--	600	10	29
DEC										
01...	393	.80	.46	--	--	--	20	10000	20	300
JAN										
05...	261	.58	.06	<3	<10	<3	10	5800	70	150
FEB										
02...	247	.49	.35	--	--	--	30	4900	250	130
MAR										
01...	244	.38	.32	--	--	--	<10	5300	20	120
APR										
07...	269	.57	.41	<3	<10	<3	20	5900	80	330
MAY										
04...	265	.14	.12	--	--	--	<10	950	10	170
JUN										
01...	399	1.1	.12	--	--	--	20	670	40	290
30...	300	.41	1.7	<3	--	--	10	1120	30	280
AUG										
02...	373	.58	.07	--	--	--	20	2000	20	420
SEP										
08...	127	.16	.16	--	<10	--	20	1100	20	320

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL TOXAPHENE (UG/L) (39400)
OCT									
27...	30	.00	.00	.00	.00	.00	.00	.00	<1
DEC									
01...	30	--	--	--	--	--	--	--	--
JAN									
05...	40	--	--	--	--	--	--	--	--
FEB									
02...	80	--	--	--	--	--	--	--	--
MAR									
01...	30	.00	.00	.00	.01	.01	.00	.00	<1
APR									
07...	80	--	--	--	--	--	--	--	--
MAY									
04...	40	--	--	--	--	--	--	--	--
JUN									
01...	30	.00	.00	.00	.02	.01	.00	.00	<1
30...	<10	.00	.00	.00	.03	.01	.00	.00	<1
AUG									
02...	20	.00	.00	.00	.01	.00	.00	.00	<1
SEP									
08...	30	.00	.00	.00	.00	.00	.00	.63	<1

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 of 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 but it is 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

Station No.	Station name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		St. Francis River basin					
07046530	Ditch No. 42 at Hickman, Ar.	Lat 35°57'14", long 89°43'59", on west line of SW¼NW¼ sec.5, T.15 N., R.13 E., Mississippi County, at culvert on State Highway 137, 0.7 mile (1.1 km) north of Hickman.	1.08	1963-76	3-28-75 6-18-76	a>12.90 11.13	a>130 108
07047200	Ditch No. 45 near Lepanto, Ar.	Lat 35°36'46", long 90°22'30", in SW¼SW¼ sec.32, T.12 N., R.7 E., Poinsett County, at culvert on State Highway 14, 2.5 miles (4.0 km) west of Lepanto.	2.16	1962-76	3-29-76	8.06	148
07047820	Murray Creek near Jonesboro, Ar.	Lat 35°51'52", long 90°38'26", in SW¼SW¼ sec.2, T.14 N., R.4 E., Craighead County, at culvert on State Highway 1, 4.0 miles (6.4 km) northeast of Jonesboro.	1.38	1960-76	2-18-76	10.64	615
07047880	Pope Creek tributary at Birdeye, Ar.	Lat 35°22'35", long 90°42'02", in NE¼SE¼ sec.30, T.9 N., R.4 E., Cross County, at culvert on State Highway 42, 0.9 miles (1.4 km) west of Birdeye.	.08	1963-76	6-18-76	3.61	29
07047924	Crooked Bayou tributary at State Highway 149, at Hughes, Ar.	Lat 34°57'07", long 90°28'00", in SW¼SE¼ sec.16, T.4 N., R.6 E., St. Francis County, at culvert on State Highway 149, 0.4 mile (.6 km) northeast of junction of State Highways 38 and 149, at Hughes.	.48	1963-76	5- 6-76	7.52	30
		White River basin					
07047975	Dog Branch at St. Paul, Ar.	Lat 35°49'32", long 93°45'49", in NW¼NW¼ sec.4, T.13 N., R.26 W., Madison County, at culvert on State Highway 23, at St. Paul.	1.23	1961-76	4-20-76	7.03	83
07047990	West Fork White River tributary near Greenland, Ar.	Lat 35°58'22", long 94°09'56", in NW¼SE¼ sec.16, T.15 N., R.30 W., Washington County, at culvert on U.S. Highway 71, 1.5 miles (2.4 km) south of Greenland.	.67	1960-76	4-20-76	5.85	208
07048900	Whitener Branch tributary near Spring Valley, Ar.	Lat 36°10'24", long 93°54'59", in SE¼NW¼ sec.1, T.17 N., R.28 W., Washington County, at culvert on State Highway 68, 1.0 mile (1.6 km) east of Spring Valley.	1.07	1960-76	4-20-76	5.37	88
07048940	War Eagle Creek near Witter, Ar.	Lat 35°54'05", long 93°42'04", in SE¼SE¼ sec.2, T.14 N., R.26 W., Madison County, at bridge on State Highway 23, 2.8 miles (4.5 km) south of Witter.	22.4	1963-76	4-20-76	11.43	1,750
07049000	War Eagle Creek near Hindsville, Ar.	Lat 36°12'02", long 93°51'20", in SE¼NE¼ sec.28, T.18 N., R.27 W., Madison County, on left bank about 800 ft above bridge on State Highway 45, 3.9 miles (6.3 km) north of Hindsville.	263	1953-70‡ 1971-76	6-25-76	10.18	4,160
07050200	Maxwell Creek at Kingston, Ar.	Lat 36°03'06", long 93°31'03", in SW¼NW¼ sec.15, T.16 N., R.24 W., Madison County, at bridge on State Highway 21, 0.1 mile (.2 km) north of Kingston.	2.75	1961, 1963-76	6-24-76	5.71	410
07050400	Freeman Branch at Berryville, Ar.	Lat 36°22'06", long 93°33'33", in SE¼NW¼ sec.29, T.20 N., R.24 W., Carroll County, at culvert on College Street, 0.5 mile (.8 km) east of State Highway 21 in Berryville. Prior to 1972 published as Osage Creek tributary at Berryville.	.73	1961-76	11- 3-74 7- 3-76	8.22 8.52	a370 476

‡ Operated as a continuous-record gaging station.
a Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		White River basin--Continued					
07050500	Kings River near Berryville, Ar.	Lat 36°25'36", long 93°37'15", in SE¼NE¼ sec.3, T.20 N., R.25 W., Carroll County, on right bank at downstream side of bridge on State Highway 143, 5.3 mi (8.5 km) northwest of Berryville.	527	1939-75‡ 1976	12- 6-75	22.03	19,400
07054400	Charley Creek near Omaha, Ar.	Lat 36°27'24", long 93°04'46", in NW¼SW¼ sec.23, T.21 N., R.20 W., Boone County, at culvert on State Highway 14, 6.1 miles (9.8 km) east of Omaha.	3.41	1962-76	6-23-76	9.41	1,050
07054450	East Sugarloaf Creek tributary near Lead Hill, Ar.	Lat 36°22'28", long 92°49'52", in NW¼NW¼ sec.19, T.20 N., R.17 W., Marion County, at culvert on State Highway 14, 5.0 miles (8.0 km) southeast of Lead Hill.	.85	1962-76	6-23-76	7.59	220
07055550	Crooked Creek tributary near Dogpatch, Ar.	Lat 36°09'01", long 93°07'23", in SW¼SW¼ sec.4, T.17 N., R.20 W., Boone County, at culvert on State Highway 7, 2.9 miles (4.7 km) north of Dogpatch. Prior to 1967 published as Crooked Creek tributary near Marble Falls.	4.36	1961-76	6-23-76	6.57	470
07055650	Smith Creek near Boxley, Ar.	Lat 35°56'50", long 93°23'52", in SW¼NW¼ sec.23, T.15 N., R.23 W., Newton County, at bridge on State Highway 21, 1.7 miles (2.7 km) south of Boxley.	8.35	1963-76	6-24-76	b6.16	1,140
07055800	Dry Branch near Vendor, Ar.	Lat 35°56'00", long 93°06'46", in SW¼SW¼ sec.21, T.15 N., R.20 W., Newton County, at bridge on county road, 2.4 miles (3.9 km) southwest of Vendor.	6.30	1962-76	6-23-76	10.88	1,320
07057300	Dodd Creek tributary near Mountain Home, Ar.	Lat 36°19'05", long 92°24'01", in NE¼SW¼ sec.17, T.19 N., R.13 W., Baxter County, at culvert on U.S. Highway 62, 1.5 miles (2.4 km) southwest of Mountain Home. Prior to 1966 published as Big Creek tributary near Mountain Home.	.76	1961-76	12- 5-75	9.01	121
07060600	Band Mill Creek near Brockwell, Ar.	Lat 36°08'02", long 91°58'48", in SE¼SE¼ sec.7, T.17 N., R.9 W., Izard County, at culvert on State Highway 56, 3.1 miles (5.0 km) west of Brockwell.	1.25	1961-76	6-24-76	5.71	290
07060670	Hughes Creek near Mountain View, Ar.	Lat 35°51'46", long 92°08'47", in NE¼SW¼ sec.10, T.14 N., R.11 W., Stone County, at bridge on State Highway 66, 1.7 miles (2.7 km) west of Mountain View. Prior to 1969 published as Lick Fork tributary near Mountain View.	3.20	1961-76	5-28-76	5.86	540
07060830	Wolf Bayou near Drasco, Ar.	Lat 35°39'36", long 91°55'15", in NW¼SE¼ sec.23, T.12 N., R.9 W., Cleburne County, at culvert on State Highway 25, 2.4 miles (3.9 km) northeast of Drasco.	.27	1963-76	2-17-76	4.61	25
07060900	Polk Bayou near Batesville, Ar.	Lat 35°47'31", long 91°38'41, in NW¼NW¼ sec.9, T.13 N., R.6 W., Independence County, at bridge on State Highway 69, 1.4 miles (2.2 km) north of Batesville.	166	1957, 1959-64† 1975	3-28-75	c275.6	d33,600
07061100	Gibbs Creek at Sulphur Rock, Ar.	Lat 35°45'32", long 91°30'52", in SE¼SW¼ sec.15, T.13 N., R.5 W., Independence County, at culvert on State Highway 69, 0.9 mile (1.4 km) west of Sulphur Rock.	3.90	1962-76	2-17-76	11.29	1,740
07068870	Fourche River tributary at Middlebrook, Ar.	Lat 36°27'46", long 90°55'26", in NW¼SW¼ sec.13, T.21 N., R.1 E., Randolph County, at culvert on State Highway 115, 0.3 mile (.5 km) north of Middlebrook. Prior to 1969 published as Fourche Creek tributary at Middlebrook.	.19	1961-76	5-28-76	8.36	293
07068890	Fourche River above Pocahontas, Ar.	Lat 36°20'21", long 90°56'33", in NE¼NW¼ sec.35, T.20 N., R.1 E., Randolph County, on right bank at upstream side of bridge on State Highway 115, 5.6 miles (9.0 km) north of Pocahontas.	229	1965-70‡ 1971-76	6-24-76	22.35	18,600

† Operated as a low-flow gaging station.
‡ Operated as a continuous-record gaging station.
b Downstream gage.
c Elevation at downstream side of bridge.
d Not previously published.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		White River basin--Continued					
07069000	Black River at Pocahontas, Ar.	Lat 36°15'14", long 90°58'12", in SW¼SW¼ sec.27, T.19 N., R.1 E., Randolph County, at bridge on U.S. Highway 67 at Pocahontas.	4,845	1937-70‡ 1971-76	7- 7-76	17.32	14,000
07069250	Brush Creek near Mammoth Spring, Ar.	Lat 36°25'36", long 91°29'27", in SE¼SE¼ sec.34, T.21 N., R.5 W., Fulton County, at culvert on U.S. Highway 63, 5.5 miles (8.8 km) southeast of Mammoth Spring. Prior to 1967 published as Spring River tributary near Mammoth Spring.	.48	1961-76	12- 6-76	7.78	133
07069290	Miller Creek near Salem, Ar.	Lat 36°20'13", long 91°46'32", in SE¼NW¼ sec.6, T.19 N., R.7 W., Fulton County, at culvert on U.S. Highway 62, 3.6 miles (5.8 km) southeast of Salem.	2.28	1961, 1963-76	6-23-76	6.39	740
07072200	Hubble Creek near Pocahontas, Ar.	Lat 36°15'32", long 91°02'02", in SE¼SW¼ sec.25, T.19 N., R.1 W., Randolph County, at culvert on U.S. Highway 62, 3.4 miles (5.5 km) west of Pocahontas. Prior to 1966 published as Eleven Point River tributary near Pocahontas.	1.33	1961-76	7- 3-76	e8.74	480
07074200	Dry Branch tributary near Sidney, Ar.	Lat 36°00'12", long 91°35'06", in NW¼SW¼ sec.25, T.16 N., R.6 W., Sharp County, at culvert on U.S. Highway 167, 4.2 miles (6.8 km) east of Sidney. Prior to 1963 published as Big Creek tributary near Sidney.	1.22	1961-76	12- 6-75	e9.55	530
07074250	Reeds Creek near Strawberry, Ar.	Lat 35°58'58", long 91°20'12", in SW¼SW¼ sec.32, T.16 N., R.3 W., Lawrence County, at bridge on State Highway 117, 1.4 miles (2.3 km) northwest of Strawberry.	34.9	1963-76	12- 6-76	e13.35	2,950
07074550	Village Creek near O'Kean, Ar.	Lat 36°10'45", long 90°50'29", on south line SW¼SW¼ sec.23, T.18 N., R.2 E., Randolph County, at bridge on State Highway 90, 1.6 miles (2.6 km) northwest of O'Kean. Prior to 1965 published as Village Creek Main Ditch near O'Kean.	6.24	1961-76	7- 3-76	7.92	240
07074855	Cypress Creek tributary near Augusta, Ar.	Lat 35°20'37", long 91°20'38", in SE¼SE¼ sec.6, T.8 N., R.3 W., Woodruff County, at culvert on State Highway 33, 4.4 miles (7.1 km) north of Augusta.	5.54	1962-76	6-24-76	3.73	205
07074900	Trace Creek tributary near Marshall, Ar.	Lat 35°52'14", long 92°36'08", in NE¼SW¼ sec.8, T.14 N., R.15 W., Searcy County, at culvert on U.S. Highway 65, 3.2 miles (5.1 km) south of Marshall.	.26	1961-76	4-19-76	8.97	146
07074950	Tick Creek near Leslie, Ar.	Lat 35°51'20", long 92°26'24", in SW¼NE¼ sec.14, T.14 N., R.14 W., Searcy County, at culvert on State Highway 66, 1.5 miles (2.4 km) northeast of Oxley, and 7.0 miles (11.3 km) east of Leslie.	1.58	1961-76	3-28-75 7- 4-76	7.63 6.67	a460 135
07075600	Choctaw Creek tributary near Choctaw, Ar.	Lat 35°31'36", long 92°25'02", in SE¼SW¼ sec.6, T.10 N., R.13 W., Van Buren County, at culvert on State Highway 330, 1.4 miles (2.3 km) east of Choctaw.	1.36	1964-76	6-24-76	7.75	90
07075800	Dill Branch tributary near Ida, Ar.	Lat 35°32'33", long 91°57'34", in SW¼NE¼ sec.33, T.11 N., R.9 W., Cleburne County, at culvert on State Highway 25, 3.5 miles (5.6 km) southwest of Ida. Prior to 1975 published as Peter Creek tributary near Ida.	.26	1964-76	6-24-76	6.55	42
07076630	Key Branch near Searcy, Ar.	Lat 35°14'47", long 91°47'01", in NW¼SW¼ sec.8, T.7 N., R.7 W., White County, at culvert on State Highway 36, 2.8 miles (4.5 km) west of Searcy. Prior to 1964 published as Little Red River tributary near Searcy.	.66	1961-76	6-24-76	6.35	300

‡ Operated as a continuous-record gaging station.
a Revised.
e From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		White River basin--Continued					
07076820	Gum Springs Creek near Higginson, Ar.	Lat 35°12'04", long 91°43'56", on east line NE¼SE¼ sec.27, T.7 N., R.7 W., White County, at bridge on State Highway 367, 1.2 miles (1.9 km) northwest of Higginson. Prior to 1964 published as Glade Creek near Higginson.	5.00	1961-76	6-24-76	b9.83	625
07076870	Pigeon Roost Creek at Butlerville, Ar.	Lat 34°58'36", long 91°50'38", in NW¼NE¼ sec.15, T.4 N., R.8 W., Lonoke County, at bridge on State Highway 38, 0.6 mile (1.0 km) west of Butlerville.	23.0	1961-76	3- 8-76	9.85	960
07077100	Big Creek near Boydsville, Ar.	Lat 36°22'12", long 90°19'50", in SE¼NW¼ sec.16, T.20 N., R.7 E., Clay County, at bridge on county road, 0.5 mile (.8 km) south of Crockett, and 4.0 miles (6.4 km) northeast of Boydsville.	12.8	1962-76	6-24-76	e17.68	3,800
07077200	Big Creek tributary near Boydsville, Ar.	Lat 36°22'32", long 90°19'56", in SE¼SW¼ sec.9, T.20 N., R.7 E., Clay County, at culvert on county road, 0.1 mile (.2 km) west of Crockett, and 4.1 miles (6.6 km) northeast of Boydsville.	1.58	1962-76	6-24-76	e8.07	440
07077340	Sugar Creek tributary near Walcott, Ar.	Lat 36°04'26", long 90°36'55", in NW¼SW¼ sec.25, T.17 N., R.4 E., Greene County, at culvert on State Highway 25, 3.2 miles (5.1 km) east of junction of State Highways 25 and 141, and 3.9 miles (6.3 km) northeast of Walcott.	.68	1963-76	7- 4-76	7.27	260
07077430	Willow Ditch near Egypt, Ar.	Lat 35°56'29", long 90°56'33", in SW¼SW¼ sec.12, T.15 N., R.1 E., Lawrence County, at culvert on State Highway 91, 5.1 miles (8.2 km) north of Egypt.	.25	1963-76	5-28-76	5.02	27
07077680	Threemile Creek near Amagon, Ar.	Lat 35°33'42", long 91°01'25", in NW¼NE¼ sec.30, T.11 N., R.1 E., Poinsett County, at bridge on State Highway 14, 4.8 miles (7.7 km) east of Amagon.	7.93	1961-76	6-18-76	3.37	112
07077860	Boat Gunwale Slash near Holly Grove, Ar.	Lat 34°36'18", long 91°10'12", in SE¼SW¼ sec.13, T.1 S., R.2 W., Monroe County, at bridge on State Highway 86, 1.8 miles (2.9 km) northeast of Holly Grove. Prior to 1972 published as Boat Gunnale Slash tributary near Holly Grove.	10.0	1962-76	3- 8-76	8.14	225
07077920	Big Creek at Goodwin, Ar.	Lat 34°56'22", long 91°00'55", in NE¼NE¼ sec.29, T.4 N., R.1 E., St. Francis County, at bridge on U.S. Highway 70, 0.3 mile (.5 km) east of Goodwin.	31.1	1961-76	3-29-76	8.67	240
07077940	Spring Creek near Aubrey, Ar.	Lat 34°41'16", long 90°53'45", in SW¼SE¼ sec.16, T.1 N., R.2 E., Lee County, at bridge on State Highway 121, 2.1 miles (3.4 km) south of Aubrey.	38.0	1962-76	5-29-76	e13.19	1,130
07078170	Little LaGrue Bayou tributary near DeWitt, Ar.	Lat 34°19'33", long 91°24'06" on east line NE¼NE¼ sec.26, T.4 S., R.4 W., Arkansas County, at bridge on county road, 4.5 miles (7.2 km) northwest of DeWitt.	1.51	1961-76	3- 8-76	8.55	152
07078210	Tarleton Creek tributary at Ethel, Ar.	Lat 34°18'02", long 91°09'45", in NW¼SE¼ sec.31, T.4 S., R.1 W., Arkansas County, at culvert on State Highway 17, 1.0 mile (1.6 km) north of Ethel.	.20	1963-76	3- 8-76	4.60	61
		Arkansas River basin					
07188900	Butler Creek tributary near Gravette, Ar.	Lat 36°26'51", long 94°26'36", in SW¼SE¼ sec.36, T.21 N., R.33 W., Benton County, at culvert on State Highway 59, 2.0 miles (3.2 km) north of Gravette.	.96	1961-76	12- 6-75	5.50	104
07194890	Osage Creek at Cave Springs, Ar.	Lat 36°15'56", long 94°14'15", in SW¼NW¼ sec.1, T.18 N., R.31 W., Benton County, at bridge on State Highway 264, 0.4 mile (.6 km) west of Cave Springs.	40.4	1950, 1963-76	4-20-76	5.67	660

b Downstream gage.
e From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (m^2)	Period of record	Annaul maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Arkansas River basin--Continued					
07195000	Osage Creek near Elm Springs, Ar.	Lat 36°13'19", long 94°17'18", in SW¼NE¼ sec.21, T.18 N., R.31 W., Benton County, on left bank 0.7 mile (1.1 km) downstream from Little Osage Creek, 3.2 miles (5.1 km) northwest of Elm Springs.	130	1950-75‡ 1976	4-20-76	10.74	5,710
07195200	Brush Creek tributary near Tontitown, Ar.	Lat 36°10'38", long 94°16'40", in NW¼SW¼ sec.3, T.17 N., R.31 W., Washington County, at culvert on State Highway 68, 2.2 miles (3.5 km) west of Tontitown.	.37	1959-76	4-20-76	7.88	63
07195450	Ballard Creek at Summers, Ar.	Lat 35°58'42", long 94°29'56", in SW¼SW¼ sec.16, T.15 N., R.33 W., Washington County, at bridge on U.S. Highway 62, 0.4 mile (.6 km) west of Summers.	14.6	1963-76	1-29-69	9.89	a3,280
					9-23-70	8.13	a2,200
					10-26-70	9.70	a3,140
					7-13-72	9.32	a2,900
					4-22-73	8.39	a2,350
					5-30-74	10.40	a3,600
					11- 4-74	9.98	a3,320
					4-20-76	12.16	4,750
07249300	James Fork near Midland, Ar.	Lat 35°04'27", long 94°20'20", in NW¼NW¼ sec.32, T.5 N., R.31 W., Sebastian County, at bridge on State Highway 252, 1.6 miles (2.6 km) southeast of Midland.	44.0	1963-76	5- 7-75	ae7.00	a3,800
					6-24-76	5.17	1,550
07249500	Cove Creek near Lee Creek, Ar.	Lat 35°43'20", long 94°24'28", in SW¼NW¼ sec.16, T.12 N., R.32 W., Crawford County, at bridge on U.S. Forest Service road, 4.5 miles (7.2 km) northwest of Lee Creek.	35.3	1951-70‡ 1971-76	4-20-76	10.58	8,600
07249650	Mountain Fork near Evansville, Ar.	Lat 35°42'23", long 94°28'57", in NE¼SE¼ sec.22, T.12 N., R.33 W., Crawford County, at bridge on State Highway 59, 6.2 miles (10.0 km) south of Evansville. Prior to 1971 published as Mountain Fork Creek near Evansville.	8.15	1962-76	4-20-76	8.68	2,070
07249950	Webber Creek tributary near Cedarville, Ar.	Lat 35°36'00", long 92°22'49", in SE¼SE¼ sec.27, T.11 N., R.32 W., Crawford County, at culvert on State Highway 59, 2.3 miles (3.7 km) north of Cedarville.	.34	1962-76	5-13-76	5.69	10
07251500	Frog Bayou at Rudy, Ar.	Lat 35°31'32", long 94°16'18", in SW¼SW¼ sec.23, T.10 N., R.31 W., Crawford County, at bridge on State Highway 282 at Rudy.	216	1951-70‡ 1971-76	4-20-76	11.00	9,700
07252200	North Fork White Oak Creek tributary near Watalula, Ar.	Lat 35°35'43", long 93°50'49", in SE¼NE¼ sec.27, T.11 N., R.27 W., Franklin County, at culvert on State Highway 23, 2.2 miles (3.5 km) northwest of Watalula.	.46	1961-76	3- 8-76	e6.03	90
07256500	Spadra Creek at Clarksville, Ar.	Lat 35°28'06", long 93°27'46", in NW¼NE¼ sec.5, T.9 N., R.23 W., Johnson County, on right bank at Clarksville, 0.2 mile (.3 km) downstream from bridge on U.S. Highway 64.	61.1	1953-70‡ 1971-76	12-29-75	2.96	325
07257060	Mikes Creek tributary near Ozone, Ar.	Lat 35°37'25", long 93°26'02", in NE¼SE¼ sec.9, T.11 N., R.23 W., Johnson County, at culvert on State Highway 21, 1.4 miles (2.3 km) southeast of Ozone.	.19	1964-76	3- 9-76	2.43	13
07257100	Minnow Creek tributary near Hagarville, Ar.	Lat 35°30'10", long 93°21'56", in SE¼SE¼ sec.19, T.10 N., R.22 W., Johnson County, at culvert on State Highway 123, 2.6 miles (4.2 km) southwest of Hagarville.	.20	1962-76	3- 9-76	3.59	19
07257500	Illinois Bayou near Scottsville, Ar.	Lat 35°27'58", long 93°02'28", in SE¼SW¼ sec.32, T.10 N., R.19 W., Pope County, at bridge on county road 1.3 miles (2.1 km) north of Scottsville.	241	1948-70‡ 1971-76	6-23-76	10.10	4,190
07257700	McCoy Creek near Dover, Ar.	Lat 35°25'04", long 93°05'09", in SE¼NE¼ sec.23, T.9 N., R.20 W., Pope County, at bridge on State Highway 27, 2.0 miles (3.2 km) northeast of Dover.	7.05	1961-76	4-19-76	4.36	130

‡ Operated as a continuous-record gaging station.
a Revised.
e From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Arkansas River basin--Continued					
07258200	Pack Saddle Creek tributary near Waldron, Ar.	Lat 34°58'18", long 94°05'42", in SE¼SE¼ sec.29, T.4 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 5.2 miles (8.4 km) north of Waldron.	.92	1961-76	9-20-76	3.50	66
07260000	Dutch Creek at Waltreak, Ar.	Lat 34°59'15", long 93°36'45", in SE¼NW¼ sec.24, T.4 N., R.25 W., Yell County, on left bank 0.2 mile (0.3 km) north of Waltreak.	81.4	1945-75‡ 1976	3- 9-76	6.61	770
07260630	Jake Creek near Chickalah, Ar.	Lat 35°07'49", long 93°20'19", in NW¼SE¼ sec.33, T.6 N., R.22 W., Yell County, at culvert on State Highway 27, 0.7 mile (1.1 km) northeast of Ranger, 4.2 miles (6.8 km) southwest of Chickalah.	1.85	1961-76	6-25-76	5.18	102
07260679	East Fork Point Remove Creek tributary near Saint Vincent, Ar.	Lat 35°16'10", long 92°43'59", in NE¼NE¼ sec.7, T.7 N., R.16 W., Conway County, at culvert on State Highway 213, 2.2 miles (3.5 km) south of Saint Vincent.	.09	1967-76	5-15-76	5.66	16
07261050	Pine Mountain Creek tributary near Damascus, Ar.	Lat 35°23'19", long 92°23'17", in NW¼SW¼ sec.28, T.9 N., R.13 W., Van Buren County, at culvert on State Highway 124, just east of junction with U.S. Highway 65, and 2.0 miles (3.2 km) northeast of Damascus.	.29	1961-76	6-24-76	9.09	182
07261300	Tan-a-hill Creek near Boles, Ar.	Lat 34°43'49", long 94°04'43", in SW¼NW¼ sec.22, T.1 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 0.3 mile (0.5 km) southwest of Y City and 3.8 miles (6.1 km) southwest of Boles.	2.33	1960-76	3- 8-76	e4.99	122
07261800	Brogan Creek near Rover, Ar.	Lat 34°54'28", long 92°24'06", in NW¼SE¼ sec.13, T.3 N., R.23 W., Yell County, at culvert on State Highway 27, 2.7 miles (4.3 km) south of Rover. Prior to 1968 published as Fourche LaFave River tributary near Rover.	1.04	1963-76	3- 8-76	4.21	70
07263100	Fourche LaFave River tributary near Perryville, Ar.	Lat 35°01'14", long 92°46'06", in NW¼SW¼ sec.1, T.4 N., R.17 W., Perry County, at culvert on State Highway 60, 2.2 miles (3.5 km) northeast of Perryville.	1.47	1962-76	6-25-76	8.99	553
07263400	Little Maumelle River at Ferndale, Ar.	Lat 34°46'48", long 92°33'15", in NW¼SE¼ sec.25, T.2 N., R.15 W., Pulaski County, at bridge on county road, 0.2 mile (0.3 km) northeast of Ferndale.	15.0	1963-76	6-24-76	9.38	1,250
07263860	Mile Branch near Tomberlin, Ar.	Lat 34°29'08", long 91°51'13", in NW¼NE¼ sec.3, T.3 S., R.8 W., Jefferson County, at bridge on county road, 2.3 miles (3.7 km) southeast of Tomberlin. Prior to 1964 published as Main Ditch Lateral No. 9 near Tomberlin.	2.75	1963-76	3- 8-76	10.53	355
07263910	Cypress Branch near Jacksonville, Ar.	Lat 34°54'28", long 92°10'55", in SE¼NE¼ sec.9, T.3 N., R.11 W., Pulaski County, at culvert on State Highway 107, 5.0 miles (8.0 km) northwest of Jacksonville.	2.38	1961-76	6-18-76	9.95	410
07264100	White Oak Branch near Lonoke, Ar.	Lat 34°46'20", long 91°50'34", on west line SW¼NW¼ sec.26, T.2 N., R.8 W., Lonoke County, at bridge on county road, 3.3 miles (5.3 km) east of Lonoke.	8.41	1961-76	3- 8-76	7.77	325
		Red River basin					
07338700	Twomile Creek near Hatfield, Ar.	Lat 34°30'52", long 94°20'14", in NW¼NW¼ sec.8, T.3 S., R.31 W., Polk County, at bridge on U.S. Highway 71, 3.1 miles (5.0 km) northeast of Hatfield.	16.1	1963-76	3- 8-76	7.15	860
07339800	Pepper Creek near DeQueen, Ar.	Lat 34°02'44", long 94°18'13", on north line NW¼NE¼ sec.28, T.8 S., R.31 W., Sevier County, at bridge on U.S. Highway 71, 1.5 miles (2.4 km) east of junction of U.S. Highways 70 and 71, and 2.3 miles (3.7 km) east of DeQueen.	6.43	1961-76	9- 4-76	4.83	420

‡ Operated as a continuous-record gaging station.
e From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Red River basin--Continued					
07340200	West Flat Creek near Foreman, Ar.	Lat 33°45'13", long 94°23'28", in NW¼SW¼ sec.2, T.12 S., R.32 W., Little River County, at bridge on State Highway 41, 2.3 miles (3.7 km) north of Foreman.	10.6	1962-76	3- 8-76	10.72	900
07340530	Mill Slough tributary near Lockesburg, Ar.	Lat 33°58'04", long 94°11'25", on south line SW¼NW¼ sec.22, T.9 S., R.30 W., Sevier County, at culvert on State Highway 24, 1.3 miles (2.1 km) west of Lockesburg.	.64	1963-76	5-27-76	4.12	75
07341100	Rock Creek near Dierks, Ar.	Lat 34°06'46", long 94°02'25", in SW¼NE¼ sec.36, T.7 S., R.29 W., Howard County, at bridge on U.S. Highway 70, 1.4 miles (2.3 km) southwest of Dierks.	9.48	1961, 1963-76	3- 8-76	6.18	1,200
07341700	Caney Creek near Hope, Ar.	Lat 33°41'34", long 93°38'12", in SE¼NE¼ sec.24, T.12 S., R.25 W., Hempstead County, at bridge on State Highway 4, 3.1 miles (5.0 km) northwest of Hope.	12.9	1963-76	3- 8-76	11.06	2,080
07344320	Mill Creek tributary near Fouke, Ar.	Lat 33°17'53", long 93°54'58", in NW¼NE¼ sec.8, T.17 S., R.27 W., Miller County, at culvert on U.S. Highway 71, 3.0 miles (5.0 km) northwest of Fouke.	1.43	1961-76	6-18-76	7.54	167
07346800	East Fork Kelly Bayou tributary at Kiblah, Ar.	Lat 33°02'57", long 93°53'44", in NE¼NW¼ sec.3, T.20 S., R.27 W., Miller County, at culvert on U.S. Highway 71, 0.1 mile (0.2 km) south of Kiblah.	.13	1961-76	3- 8-76	6.45	15
07348630	Barlow Branch tributary near McNeil, Ar.	Lat 33°18'43", long 93°13'52", in NW¼SE¼ sec.25, T.16 S., R.21 W., Columbia County, at culvert on county road, 2.5 miles (4.0 km) south of McNeil.	.05	1961-76	5-26-76	5.55	14
07349430	Bodcau Creek at Stamps, Ar.	Lat 33°22'00", long 93°31'20", in NE¼NW¼ sec.7, T.16 S., R.23 W., Lafayette County, at bridge on U.S. Highway 82, 1.0 mile (1.6 km) west of Stamps.	234	1959-70‡ 1971-76	3-10-76	11.24	3,400
07355800	Lewis Creek tributary near Mena, Ar.	Lat 34°37'15", long 94°12'15", in NE¼SW¼ sec.33, T.1 S., R.30 W., Polk County, at culvert on U.S. Highway 71, 3.1 miles (5.0 km) northeast of Mena.	.64	1961-76	7-25-76	3.25	150
07355900	Big Fork tributary at Big Fork, Ar.	Lat 34°28'23", long 93°57'38", in SE¼NW¼ sec.23, T.3 S., R.28 W., Polk County, at culvert on State Highway 8, 0.9 mile (1.4 km) southeast of Big Fork.	.16	1964-76	6-25-76	6.89	30
07356500	South Fork Ouachita River near Mount Ida, Ar.	Lat 34°33'37", long 93°38'09", in NE¼NE¼ sec.23, T.2 S., R.25 W., Montgomery County, at bridge on U.S. Highway 270 at Mount Ida.	64	1950-70‡ 1971-76	3- 8-76	5.30	1,400
07356700	Barnes Branch near Mount Ida, Ar.	Lat 34°33'57", long 93°37'03", in SE¼SE¼ sec.13, T.2 S., R.25 W., Montgomery County, at culvert on State Highway 27, 1.1 miles (1.8 km) northeast of Mount Ida.	1.85	1961-76	3- 8-76	9.73	195
07357700	Glazypeau Creek at Mountain Valley, Ar.	Lat 34°37'33", long 93°03'10", in SE¼SE¼ sec.20, T.1 S., R.19 W., Garland County, at bridge on State Highway 7, 0.3 mile (0.5 km) southeast of Mountain Valley.	3.82	1961-76	3- 8-76	8.28	138
07359520	Ouachita River tributary near Malvern, Ar.	Lat 34°22'01", long 92°52'01", in SW¼NE¼ sec.19, T.4 S., R.17 W., Hot Spring County, at culvert on State Highway 84, 3.2 miles (5.1 km) west of Malvern.	f3.0	1962-76	6-25-76	4.98	85
07359750	Little Sugarloaf Creek near Bonnerdale, Ar.	Lat 34°21'40", long 93°27'30", in NW¼SW¼ sec.27, T.4 S., R.23 W., Montgomery County, at bridge on U.S. Highway 70, 4.7 miles (7.6 km) southwest of Bonnerdale.	2.34	1962-76	3- 8-76	8.17	488
07360150	Pearson Creek tributary near Dalark, Ar.	Lat 34°01'59", long 92°52'05", in SE¼NW¼ sec.17, T.8 S., R.17 W., Dallas County, at culvert on State Highway 8, 1.1 miles (1.8 km) east of Dalark. Prior to 1965 published as Casa Massa Creek triburary near Dalark.	.40	1961-76	6-15-76	3.76	47

‡ Operated as a continuous-record gaging station.
f Approximately.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Red River basin--Continued					
07361020	Prairie Creek tributary near Kirby, Ar.	Lat 34°09'10", long 93°37'53", in NW¼SE¼ sec.11, T.7 S., R.25 W., Pike County, at culvert on State Highway 27, 6.6 miles (10.6 km) south of Kirby.	.16	1963-76	6-24-76	3.75	52
07361180	South Fork Ozan Creek near Ozan, Ar.	Lat 33°49'15", long 93°42'28", in SE¼SW¼ sec.5, T.11 S., R.25 W., Hempstead County, at bridge on State Highway 4, 2.0 miles (3.2 km) south of Ozan.	17.6	1963-76	5- 6-76	e24.20	6,400
07361200	Ozan Creek near McCaskill, Ar.	Lat 33°52'55", long 93°35'59", in SE¼NE¼ sec.18, T.10 S., R.24 W., Hempstead County, at bridge on State Highway 24, 3.5 miles (5.6 km) southeast of McCaskill.	148	1940-61, 1962-70‡ 1971-76	3- 8-76	14.72	6,880
07361680	Middle Caney Creek tributary near Rosston, Ar.	Lat 33°36'19", long 93°17'31", in SW¼SE¼ sec.17, T.13 S., R.21 W., Nevada County, at culvert on State Highway 19, 1.0 mile (1.6 km) north of junction of State Highways 4 and 19, and 1.3 miles (2.1 km) northwest of Rosston. Prior to 1975 published as Little Caney Creek near Rosston.	1.48	1961-76	6-25-76	8.93	225
07361780	Bradshaw Creek near Hollywood, Ar.	Lat 34°06'02", long 93°12'24" (revised), in NE¼SE¼ sec.26, T.7 S., R.21 W., Clark County, at bridge on State Highway 26, 2.6 miles (4.2 km) east of Hollywood.	3.46	1962-76	6-15-76	9.92	320
07362050	Ross Creek near Camden, Ar.	Lat 33°32'38", long 92°53'18", in SE¼NE¼ sec.6, T.14 S., R.17 W., Ouachita County, at bridge on U.S. Highway 79, 4.2 miles (6.8 km) southwest of Camden.	10.4	1961-76	3- 8-76	9.60	450
07362330	Dunn Creek near Hampton, Ar.	Lat 33°32'05", long 92°30'55", in SE¼NW¼ sec.2, T.14 S., R.14 W., Calhoun County, at bridge on State Highway 4, 2.8 miles (4.5 km) west of Hampton.	13.5	1962-76	3- 8-76	7.28	700
07362450	Cooks Creek near Fordyce, Ar.	Lat 33°50'33", long 92°28'09", in NW¼NE¼ sec.19, T.10 S., R.13 W., Dallas County, at bridge on State Highway 8, 3.9 miles (6.3 km) northwest of Fordyce.	4.99	1962-76	3- 8-76	7.52	155
07363050	Holly Creek tributary near Benton, Ar.	Lat 34°32'04", long 92°33'12", in SW¼NW¼ sec.19, T.2 S., R.14 W., Saline County, at culvert on State Highway 35, 2.8 miles (4.5 km) southeast of Benton.	1.46	1962-76	3- 8-76	4.46	105
07363330	West Fork Big Creek at Sheridan, Ar.	Lat 34°19'13", long 92°23'43", in NW¼NE¼ sec.3, T.5 S., R.13 W., Grant County, at bridge on U.S. Highway 167, 0.9 mile (1.4 km) north of junction of U.S. Highways 167 and 270 in Sheridan.	4.86	1960, 1963-76	3- 8-76	13.32	420
07363430	East Fork Derrieus-seaux Creek near Pine Bluff, Ar.	Lat 34°17'57", long 92°11'37", in NW¼NW¼ sec.10, T.5 S., R.11 W., Jefferson County, at culvert on U.S. Highway 270, 12.0 miles (19.3 km) northwest of Pine Bluff.	.64	1961-76	3- 8-76	6.91	40
07363450	Varnell Creek near Rison, Ar.	Lat 33°56'12", long 92°10'31", in NW¼NE¼ sec.18, T.9 S., R.10 W., Cleveland County, at culvert on State Highway 35, 1.8 miles (2.9 km) southeast of Rison. Prior to 1972 published as Saline River tributary near Rison.	.27	1964-76	3- 8-76	5.40	26
07364030	L'Aigle Creek tributary near Hermitage, Ar.	Lat 33°24'48", long 92°12'33", in SE¼NW¼ sec.14, T.15 S., R.11 W., Bradley County, at culvert on State Highway 15, 3.3 miles (5.3 km) southwest of Hermitage. Prior to 1975 published as Eagle Creek tributary near Hermitage.	.36	1963-76	3- 8-76	4.28	37
07364070	Bear Creek near Strong, Ar.	Lat 33°04'32", long 92°19'33", in NE¼SE¼ sec.10, T.19 S., R.12 W., Union County, at bridge on State Highway 129, 2.9 miles (4.7 km) southeast of Strong.	f6.0	1963-76	3- 8-76	12.84	360

‡ Operated as a continuous-record gaging station.
e From floodmark.
f Approximately.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (m^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Red River basin--Continued					
07364110	Nevins Creek tributary near Pine Bluff, Ar.	Lat 34°10'08", long 92°05'12", in NW¼SE¼ sec.26, T.6 S., R.10 W., Jefferson County, at culvert on U.S. Highway 79, 6.0 miles (9.7 km) southwest of Pine Bluff. Prior to 1962 published as Bayou Bartholomew tributary near Pine Bluff.	.79	1961-76	3- 8-76	3.99	64
07364125	Cane Creek at Star City, Ar.	Lat 33°57'18", long 91°50'34", in SE¼SE¼ sec.5, T.9 S., R.7 W., Lincoln County, at bridge on State Highway 81, 0.9 mile (1.4 km) north of junction of State Highways 11 and 81, in Star City.	4.91	1962-76	3- 8-76	7.79	740
07364165	Upper Cutoff Creek near Monticello, Ar.	Lat 33°44'20", long 91°44'51", in NW¼SW¼ sec.20, T.11 S., R.6 W., Drew County, at bridge on State Highway 83, 8.0 miles (12.9 km) north of Monticello.	18.8	1963-76	3- 8-76	9.58	880
07364260	Hanks Creek near Hamburg, Ar.	Lat 33°10'12", long 91°49'40", in NW¼SE¼ sec.4, T.18 S., R.7 W., Ashley County, at bridge on State Highway 52, 4.3 miles (6.9 km) southwest of Hamburg.	21.1	1962-76	3- 8-76	8.61	440
07364550	Cany Creek tributary near El Dorado, Ar.	Lat 33°11'22", long 92°36'28", in NE¼NW¼ sec.1, T.18 S., R.15 W., Union County, at culvert on U.S. Highway 82, 3.5 miles (5.6 km) southeast of El Dorado.	f.1	1961-76	6-16-76	7.43	55
07365900	Three Creeks near Three Creeks, Ar.	Lat 33°04'01", long 92°53'02", in NE¼NW¼ sec.20, T.19 S., R.17 W., Union County, at bridge on State Highway 15, 2.2 miles (3.5 km) southwest of Three Creeks.	50.3	1956-71‡ 1972-76	3- 9-76	6.41	3,140
07367658	Cypress Creek Canal No. 19 tributary near Dumas, Ar.	Lat 33°51'47", long 91°28'46", in SE¼NW¼ sec.2, T.10 S., R.4 W., Desha County, at culvert on U.S. Highway 65, 1.5 miles (2.4 km) south of Dumas.	f.6	1961-76	3- 8-76	7.26	134
07367665	Wards Bayou tributary at Montrose, Ar.	Lat 33°18'15", long 91°29'37", in SE¼SE¼ sec.15, T.16 S., R.4 W., Ashley County, at culvert on U.S. Highway 165, 0.4 mile (0.6 km) north of junction of U.S. Highways 165 and 82 in Montrose.	f1.6	1961-76	7- 4-76	6.90	290
07367740	Camp Bayou near Parkdale, Ar.	Lat 33°06'55", long 91°31'31", in SE¼SW¼ sec.21, T.18 S., R.4 W., Ashley County, at culvert on State Highway 8, 1.3 miles (2.1 km) east of Parkdale.	f1.9	1963-76	3- 8-76	8.33	215

‡ Operated as a continuous-record gaging station.
f Approximately.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†).

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		St. Francis River basin				
Pemiscot Bayou	St. Francis River	Lat 35°51'30", long 90°02'48", in SW¼ sec.5, T.14 N., R.10 E., Mississippi County, at bridge on State Highway 119, 0.7 mi (1.1 km) north of Dell, Ark.	(a)	1974-75	12-31-75	77.1
					8- 2-76	23.1
		White River basin				
Crooked Creek	White River	Lat 36°14'36", long 92°50'12", in SW¼ sec.31, T.19 N., R.17 W., Marion County, at bridge on U.S. Highway 62, 0.7 mi (1.1 km) southeast of Pyatt, Ark.	207	1953-54, 1957-67b, 1974-75	10-17-75	*19.6
					2-17-76	39.1
					4- 1-76	163
					9-15-76	*25.9
Current River	Black River	Lat 36°17'55", long 90°51'30", in sec.10, T.19 N., R.2 E., Randolph County, at bridge on U.S. Highway 67, 7.9 mi (12.7 km) northeast of Pocahontas, Ark.	2,606	1974-75	10- 8-75	2,070
Spring River	Black River	Lat 36°20'00", long 91°30'30", in SW¼ SW¼ sec.34, T.20 N., R.5 W., Fulton County, at low-water bridge on county road, 1.8 mi (2.9 km) upstream from South Fork Spring River, and 2.2 mi (3.5 km) northwest of Hardy, Ark.	(a)	1975	5- 7-76	570
					9-17-76	360
South Fork Spring River	Spring River	Lat 36°21'00", long 91°38'00", in NW¼NW¼ sec.33, T.20 N., R.6 W., Fulton County, at bridge on State Highway 289, 0.2 mi (0.3 km) southeast of Saddle, Ark.	(a)	1974-75	10-15-75	*65.3
					5- 7-76	124
					9-17-76	*46.5
Bayou DeView	Cache River	Lat 35°47'36", long 90°50'18", in SW¼ SW¼ sec.36, T.14 N., R.2 E., Craighead County, at bridge on State Highway 226, 1.8 mi (2.9 km) northwest of Gibson, Ark.	(a)	1974-75	6-21-76	10.9
					9- 8-76	*4.93
		Arkansas River basin				
Little Sugar Creek	Big Sugar Creek	Lat 36°30'10", long 94°16'30", in SW¼ NE¼ sec.34, T.21 N., R.21 W., McDonald County, at bridge on U.S. Highway 71 at Caverna, Mo., and 0.1 mi (0.2 km) downstream from Bear Creek.	118	1971-75	12-17-75	114
					2- 3-76	41.2
					6- 1-76	210
					8-30-76	*29.5
Butler Creek	Elk River	Lat 36°30'44", long 94°28'54", in NW¼ NW¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., at county bridge about 500 ft (152 m) west of State Highway 59, 0.9 mi (1.4 km) north of State line along Highway 59, and 2.0 mi (3.2 km) northwest of Sulphur Springs, Ark.	34.9	1971-75	12-17-75	29.2
					2- 3-76	10.3
					6- 1-76	60.7
					8-30-76	*5.56
Illinois River	Arkansas River	Lat 36°06'06", long 94°20'42", in SE¼ sec.36, T.17 N., R.32 W., Washington County, at bridge on State Highway 16, 0.4 mi (0.6 km) downstream from Clear Creek, and 0.7 mi (1.1 km) southwest of Savoy, Ark.	167	1957-63b, 1974-75	12-18-75	95.5
					2- 3-76	35.6
					6- 2-76	149
					8-31-76	*9.15
Flint Creek	Illinois River	Lat 36°20'45", long 94°35'32", in NE¼ SE¼ sec.23, T.18 N., R.34 W., Benton County, at bridge on State Highway 49, upstream from confluence with Little Flint Creek, and 3.0 mi (4.8 km) northwest of Siloam Springs, Ark.	34.0	1971-75	12-17-75	52.0
					2- 4-76	25.4
					6- 1-76	47.8
					8-30-76	*12.0

* Base flow.
a Not determined.
b Operated as a low-flow partial-record station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Arkansas River basin--Continued				
Sager Creek	Flint Creek	Lat 36°11'50", long 94°35'00", in SE¼ NE¼ sec.24, T.20 N., R.25 E., Delaware County, Oklahoma, at bridge on county road, 0.8 mi (1.3 km) west of State line, and 2.6 mi (4.2 km) northwest of Siloam Springs, Ark.	(a)	1971-75	12-17-75 2- 4-76 6- 1-76 8-30-76	19.7 9.96 21.0 *6.59
Dutch Creek	Petit Jean River	Lat 34°59'15", long 93°36'45", in SE¼ NW¼ sec.24, T.4 N., R.25 W., Yell County, on left bank 0.2 mi (0.3 km) north of Waltreak, Ark.	81.4	1945-75‡	9-14-76	0
Bayou Two Prairie	Bayou Meto	Lat 34°51'38", long 91°58'45", in SW¼ NW¼ sec.28, T.3 N., R.9 W., Lonoke County, at bridge on State Highway 89, 8.4 mi (13.5 km) south of Cabot, Ark.	84.9	1974-75	10- 9-75 2-18-76 2-19-76 2-23-76 5- 7-76 8-18-76	*0.20 163 252 418 16.8 *4.43
		Red River basin				
Days Creek c/	Sulphur River	Lat 33°19'15", long 93°59'53", in NE¼ SE¼ sec.33, T.16 S., R.28 W., Miller County, at bridge on State Highway 237, 7.0 mi (11.3 km) south of Texarkana, Ark.	(a)	1973-75	6- 8-76 9- 1-76	24.3 62.1
Bodcau Creek	Red Chute Bayou	Lat 33°15'36", long 93°33'00", in SE¼ sec.14, T.17 S., R.24 W., Lafayette County, at bridge on State Highway 313, 6.7 mi (10.8 km) southeast of Lewisville, Ark.	(a)	1974-75	8-31-76	*0.24
Little Missouri River	Ouachita River	Lat 34°18'36", long 93°53'54", in SW¼ sec.16, T.5 S., R.27 W., Pike County, at bridge on State Highway 84, 3.3 mi (5.3 km) west of Langley, Ark.	66.5	1958-63b, 1974-75	10-21-75 1-14-76 4- 7-76 9- 8-76	16.3 36.6 59.2 18.8
Moro Creek	Ouachita River	Lat 33°32'36", long 92°19'06", in sec.35, T.13 S., R.12 W., Bradley-Calhoun County line, at bridge on State Highway 4, 4.0 mi (6.4 km) west of Banks, Ark.	374	1958-63b, 1974-75	1-28-76 4-14-76 8-24-76	297 51.5 e*0.25
Hurricane Creek	Saline River	Lat 34°30'30", long 92°24'54", in SW¼ sec.28, T.2 S., R.13 W., Saline County, at crossing on county road, 200 ft (61 m) downstream from Brushy Creek, 1.5 mi (2.4 km) southwest of Sardis, Ark.	(a)	1974-75	10-28-75 1-22-76 3- 9-76 3-10-76 8-13-76	4.99 15.3 1,290 343 *2.61
Bayou Bartholomew	Ouachita River	Lat 34°06'24", long 91°54'06", in NW¼ sec.22, T.7 S., R.8 W., Jefferson County, at bridge on county road, 2.2 mi (3.4 km) south of Ladd, Ark.	(a)	1968, 1974-75	1-28-76 8-13-76	280 *1.64

* Base flow.
‡ Operated as a continuous-record gaging station.
a Not determined.
b Operated as a low-flow partial-record station.
c Operated as a stage station by Corps of Engineers.
e Estimated.

Water-quality partial-record stations are particular sites where data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than monthly.

COOPERATION.--Records furnished by Corps of Engineers.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN

361603093563500 BEAVER LAKE AT WAR EAGLE, AR (LAT 36 16 03 LONG 093 56 35)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
DEC							
15...	810	1028	.0	--	--	--	--
15...	810	810	.5	150	6.1	10.0	18
MAR							
02...	810	1028	.0	--	--	--	--
02...	810	810	.5	120	7.7	15.0	12
JUL							
20...	810	--	--	--	--	--	--
20...	810	1028	.0	--	--	--	--
20...	810	810	1.5	170	7.4	25.0	5

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC							
15...	--	--	--	110	--	--	--
15...	15	--	10.0	--	74	68	68
MAR							
02...	--	--	--	36	--	--	--
02...	8	--	9.8	--	72	60	62
JUL							
20...	--	36	--	--	--	--	--
20...	--	--	--	60	--	--	--
20...	15	--	8.2	--	106	96	96

361656094043000 BEAVER LAKE AT MONTE NE, AR (LAT 36 16 56 LONG 094 04 30)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
DEC							
16...	810	--	--	--	--	--	--
16...	810	1028	.0	--	--	--	--
16...	810	810	3.5	240	6.3	9.5	0
FEB							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	2.0	120	6.6	9.5	30
JUL							
18...	810	--	--	--	--	--	--
18...	810	1028	.0	--	--	--	--
18...	810	810	3.0	130	7.7	28.5	0

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC							
16...	--	36	--	--	--	--	--
16...	--	--	--	9	--	--	--
16...	15	--	8.9	--	132	120	130
FEB							
29...	--	24	--	--	--	--	--
29...	--	--	--	11	--	--	--
29...	28	--	10.1	--	74	62	60
JUL							
18...	--	72	--	--	--	--	--
18...	--	--	--	0	--	--	--
18...	10	--	9.2	--	65	50	50

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

361957094010800 BEAVER LAKE AT HIGHWAY 12 BRIDGE, NEAR ROGERS, AR
(LAT 36 19 57 LONG 094 01 08)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
DEC												
16...	810	--	--	--	--	--	--	--	48	--	--	--
16...	810	1028	.0	--	--	--	--	--	--	--	--	2
16...	810	1028	20	150	--	--	--	--	--	--	.6	--
16...	810	810	20	120	6.2	10.0	2	12	48	9.0	--	--
16...	810	1028	80	154	--	--	--	--	--	--	1.0	--
16...	810	810	80	140	6.1	9.5	10	20	48	8.4	--	--
FEB												
29...	810	--	--	--	--	--	--	--	24	--	--	--
29...	810	1028	.0	--	--	--	--	--	--	--	--	1
29...	810	1028	20	126	--	--	--	--	--	--	3.9	--
29...	810	810	20	107	7.2	8.0	50	40	--	10.8	--	--
29...	810	1028	80	125	--	--	--	--	--	--	3.6	--
29...	810	810	80	105	7.4	8.0	40	30	--	10.8	--	--
JUL												
20...	810	--	--	--	--	--	--	--	132	--	--	--
20...	810	1028	.0	--	--	--	--	--	--	--	--	0
20...	810	1028	20	137	--	--	--	--	--	--	.7	--
20...	810	810	20	125	7.2	24.5	0	3	--	2.0	--	--
20...	810	1028	80	182	--	--	--	--	--	--	.6	--
20...	810	810	80	110	7.1	18.5	35	22	--	1.6	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	1.3	--	5.1	3.0	.40	.01	.37	.38	.78	3.5
16...	72	70	--	62	--	--	--	--	--	--	--	--
16...	--	--	1.8	--	5.8	3.3	.39	.01	.23	.24	.63	2.8
16...	72	62	--	64	--	--	--	--	--	--	--	--
FEB												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	2.2	--	8.0	3.7	.76	.30	1.4	1.7	2.5	11
29...	58	44	--	48	--	--	--	--	--	--	--	--
29...	--	--	2.1	--	7.5	3.3	.79	.08	.49	.57	1.4	6.0
29...	60	48	--	48	--	--	--	--	--	--	--	--
JUL												
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	1.2	--	6.9	4.0	.16	.06	.70	.76	.92	4.1
20...	60	52	--	72	--	--	--	--	--	--	--	--
20...	--	--	1.2	--	7.9	3.7	.31	.09	.40	.49	.80	3.5
20...	60	50	--	52	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.10	.06	140	0	0	160	170	<100	80	.0	70	130
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.01	.00	140	0	0	190	180	<100	90	.0	70	180
16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.06	.04	470	0	0	100	830	<100	190	.0	<50	130
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.05	.03	500	0	0	100	820	100	140	.0	<50	250
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.02	.01	90	1	0	190	20	<100	40	.0	<50	170
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.03	.03	190	1	0	190	220	<100	730	.0	<50	160
20...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362048094045700 BEAVER LAKE ON PRAIRIE CREEK NEAR ROGERS, AR
(LAT 36 20 48 LONG 094 04 57)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
DEC							
16...	810	--	--	--	--	--	--
16...	810	1028	.0	--	--	--	--
16...	810	810	2.0	255	6.3	10.0	0
FEB							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	3.0	135	7.3	9.5	20
JUL							
18...	810	--	--	--	--	--	--
18...	810	1028	.0	--	--	--	--
18...	810	810	2.5	110	8.4	29.0	5
18...	810	810	10	143	8.3	28.0	5

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
DEC							
16...	--	48	--	--	--	--	--
16...	--	--	--	3	--	--	--
16...	0	--	10.9	--	128	114	118
FEB							
29...	--	42	--	--	--	--	--
29...	--	--	--	0	--	--	--
29...	15	--	11.3	--	68	56	60
JUL							
18...	--	84	--	--	--	--	--
18...	--	--	--	0	--	--	--
18...	20	--	8.6	--	62	50	91
18...	4	--	8.4	--	58	52	52

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362210094033800 BEAVER LAKE NEAR AVOCA, AR (LAT 36 22 10 LONG 094 03 38)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
DEC												
16...	810	--	--	--	--	--	--	--	42	--	--	--
16...	810	1028	.0	--	--	--	--	--	--	--	--	0
16...	810	1028	5.0	153	--	--	--	--	--	--	1.2	--
16...	810	810	5.0	140	6.6	10.0	0	6	--	9.9	--	--
MAR												
02...	810	--	--	--	--	--	--	--	24	--	--	--
02...	810	1028	.0	--	--	--	--	--	--	--	--	0
02...	810	810	1.0	142	7.8	13.0	12	16	--	10.8	--	--
02...	810	1028	1.0	177	--	--	--	--	--	--	7.0	--
JUL												
18...	810	--	--	--	--	--	--	--	60	--	--	--
18...	810	1028	.0	--	--	--	--	--	--	--	--	1
18...	810	1028	2.5	139	--	--	--	--	--	--	2.0	--
18...	810	810	2.5	110	9.3	29.5	5	8	--	8.6	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	1.9	--	4.6	3.5	.30	.04	.27	.31	.61	2.7
16...	76	66	--	64	--	--	--	--	--	--	--	--
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	76	62	--	68	--	--	--	--	--	--	--	--
02...	--	--	2.0	--	9.1	5.8	.45	.14	1.2	1.3	1.8	7.7
JUL												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	1.8	--	7.2	3.8	.00	.07	.18	.25	.25	1.1
18...	56	48	--	50	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
DEC												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.13	.09	100	0	0	190	120	<100	70	.0	60	140
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	.05	.01	190	0	0	140	340	<100	110	.0	<50	180
JUL												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.03	.01	90	1	0	150	30	<100	70	.0	<50	150
18...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362925092471500 BULL SHOALS LAKE NEAR BUCK CREEK, AR (LAT 36 29 25 LONG 092 47 15)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
DEC												
08...	810	--	--	--	--	--	--	--	144	--	--	--
08...	810	1028	.0	--	--	--	--	--	--	--	--	2
08...	810	1028	29	238	--	--	--	--	--	--	1.7	--
08...	810	810	29	200	6.5	10.5	0	2	--	8.0	--	--
08...	810	1028	114	--	--	--	--	--	--	--	1.4	--
08...	810	810	114	200	6.8	10.5	5	15	--	7.1	--	--
MAR												
31...	810	1028	.0	--	--	--	--	--	--	--	--	0
31...	810	--	--	--	--	--	--	--	192	--	--	--
31...	810	810	23	260	6.2	11.5	0	0	--	10.8	--	--
31...	810	1028	28	258	--	--	--	--	--	--	.7	--
31...	810	1028	112	258	--	--	--	--	--	--	3.4	--
31...	810	810	112	250	6.3	9.5	20	12	--	10.4	--	--
AUG												
01...	810	--	--	--	--	--	--	--	192	--	--	--
01...	810	1028	.0	--	--	--	--	--	--	--	--	0
01...	810	1028	29	234	--	--	--	--	--	--	2.8	--
01...	810	810	29	240	7.4	24.5	0	0	--	10.5	--	--
01...	810	1028	114	229	--	--	--	--	--	--	1.6	--
01...	810	810	114	240	8.1	18.0	5	8	--	4.5	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	1.8	--	5.5	2.7	.20	.05	.33	.38	.58	2.6
08...	132	80	--	122	--	--	--	--	--	--	--	--
08...	--	--	1.5	--	5.8	3.4	.22	.09	.31	.40	.62	2.7
08...	138	86	--	128	--	--	--	--	--	--	--	--
MAR												
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	130	82	--	116	--	--	--	--	--	--	--	--
31...	--	--	1.6	--	5.6	3.0	.26	--	--	3.5	3.8	17
31...	--	--	1.6	--	6.1	3.0	.33	--	--	.58	.91	4.0
31...	126	84	--	114	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	1.2	--	7.2	3.6	.01	.00	.29	.29	.30	1.3
01...	124	80	--	112	--	--	--	--	--	--	--	--
01...	--	--	1.2	--	6.6	3.9	.15	.00	.36	.36	.51	2.3
01...	115	80	--	106	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	.01	.00	40	0	0	80	30	<100	50	.0	<50	70
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	.03	.01	170	0	10	90	500	<100	170	.0	50	90
08...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	.00	.00	40	0	0	110	60	<100	50	.0	<50	130
31...	.01	.00	50	0	20	120	130	<100	40	.0	<50	150
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	.02	.01	50	1	0	250	20	450	40	.0	<50	250
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	.02	.01	40	1	0	170	40	100	20	.0	<50	160
01...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362830092374400 BULL SHOALS LAKE AT INDIAN POINT, AR (LAT 36 28 30 LONG 092 37 44)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
DEC							
08...	810	1028	.0	--	--	--	--
08...	810	--	--	--	--	--	--
08...	810	810	31	220	6.5	11.0	0
08...	810	810	124	220	6.4	10.5	0
MAR							
28...	810	1028	.0	--	--	--	--
28...	810	--	--	--	--	--	--
28...	810	810	30	260	6.6	11.0	15
28...	810	810	120	235	7.0	8.5	0
AUG							
03...	810	1028	.0	--	--	--	--
03...	810	--	--	--	--	--	--
03...	810	810	31	225	8.2	24.5	0
03...	810	810	112	265	7.6	17.0	5

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC							
08...	--	--	--	2	--	--	--
08...	--	180	--	--	--	--	--
08...	0	--	8.4	--	160	88	132
08...	10	--	7.7	--	154	88	142
MAR							
28...	--	--	--	0	--	--	--
28...	--	336	--	--	--	--	--
28...	5	--	10.9	--	136	88	122
28...	10	--	9.5	--	126	84	120
AUG							
03...	--	--	--	7	--	--	--
03...	--	228	--	--	--	--	--
03...	0	--	10.5	--	124	67	116
03...	2	--	5.0	--	126	88	120

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362300092365800 BULL SHOALS LAKE AT JIMMIE CREE, NEAR BULL SHOALS, AR
(LAT 36 23 00 LONG 092 36 58)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
DEC							
08...	810	1028	.0	--	--	--	--
08...	810	--	--	--	--	--	--
08...	810	810	24	225	6.6	11.0	0
08...	810	810	96	225	6.4	11.0	15
MAR							
30...	810	1028	.0	--	--	--	--
30...	810	--	--	--	--	--	--
30...	810	810	26	255	6.5	10.5	0
30...	810	810	105	240	6.5	8.5	10
AUG							
01...	810	--	--	--	--	--	--
01...	810	810	25	210	8.1	28.0	10
01...	810	810	100	255	8.2	19.0	0
02...	810	1028	.0	--	--	--	--

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC							
08...	--	--	--	1	--	--	--
08...	--	204	--	--	--	--	--
08...	4	--	8.6	--	134	88	128
08...	4	--	8.7	--	140	84	126
MAR							
30...	--	--	--	0	--	--	--
30...	--	312	--	--	--	--	--
30...	0	--	10.8	--	134	88	114
30...	0	--	9.7	--	128	88	116
AUG							
01...	--	192	--	--	--	--	--
01...	0	--	7.9	--	120	72	100
01...	8	--	6.1	--	130	76	122
02...	--	--	--	0	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362332092321000 BULL SHOALS LAKE ON HOWARD CREEK, NEAR LAKEVIEW, AR
(LAT 36 23 32 LONG 092 32 10)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
DEC							
08...	810	1028	.0	--	--	--	--
08...	810	--	--	--	--	--	--
08...	810	810	28	220	6.4	11.0	15
08...	810	810	112	220	6.4	11.0	10
MAR							
30...	810	1028	.0	--	--	--	--
30...	810	--	--	--	--	--	--
30...	810	810	24	250	6.8	11.0	0
30...	810	810	96	260	6.4	8.0	5
AUG							
02...	810	--	--	--	--	--	--
02...	810	1028	.0	--	--	--	--
02...	810	810	28	230	8.2	24.5	10
02...	810	810	112	230	8.1	18.0	8

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC							
08...	--	--	--	2	--	--	--
08...	--	156	--	--	--	--	--
08...	5	--	8.6	--	160	96	126
08...	8	--	8.6	--	128	84	124
MAR							
30...	--	--	--	0	--	--	--
30...	--	276	--	--	--	--	--
30...	0	--	10.8	--	136	86	114
30...	0	--	10.3	--	130	86	114
AUG							
02...	--	156	--	--	--	--	--
02...	--	--	--	0	--	--	--
02...	2	--	11.6	--	116	70	110
02...	6	--	4.8	--	126	78	120

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362407092191500 NORFORK LAKE ON PIGEON CREEK NEAR MOUNTAIN HOME, AR
(LAT 36 24 07 LONG 092 19 15)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
DEC							
09...	810	--	--	--	--	--	--
09...	810	1028	.0	--	--	--	--
09...	810	810	9.0	270	6.9	10.5	20
09...	810	810	36	275	6.5	10.0	20
MAR							
25...	810	--	--	--	--	--	--
25...	810	1028	.0	--	--	--	--
25...	810	810	10	360	7.1	11.5	3
25...	810	810	36	355	7.0	11.5	0
JUL							
30...	810	--	--	--	--	--	--
30...	810	1028	.0	--	--	--	--
30...	810	810	10	300	8.3	30.0	2
30...	810	810	40	340	7.8	24.5	15

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC							
09...	--	24	--	--	--	--	--
09...	--	--	--	150	--	--	--
09...	20	--	9.7	--	164	84	170
09...	40	--	9.5	--	156	78	158
MAR							
25...	--	84	--	--	--	--	--
25...	--	--	--	0	--	--	--
25...	0	--	10.7	--	196	102	180
25...	2	--	9.5	--	192	104	178
JUL							
30...	--	156	--	--	--	--	--
30...	--	--	--	0	--	--	--
30...	0	--	8.8	--	184	74	148
30...	10	--	6.4	--	180	90	174

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362230092143700 NORFORK LAKE AT HENDERSON, AR (LAT 36 22 30 LONG 092 14 37)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
DEC												
09...	810	--	--	--	--	--	--	--	96	--	--	--
09...	810	1028	.0	--	--	--	--	--	--	--	--	1
09...	810	1028	23	319	--	--	--	--	--	--	1.0	--
09...	810	810	23	280	6.4	11.0	10	10	--	8.9	--	--
09...	810	1028	92	315	--	--	--	--	--	--	.8	--
09...	810	810	92	280	6.5	10.5	10	10	--	--	--	--
MAR												
27...	810	1028	.0	--	--	--	--	--	--	--	--	0
27...	810	--	--	--	--	--	--	--	120	--	--	--
27...	810	1028	22	322	--	--	--	--	--	--	2.6	--
27...	810	810	22	255	7.0	10.0	5	2	--	10.7	--	--
27...	810	1028	88	334	--	--	--	--	--	--	1.5	--
27...	810	810	88	330	6.4	9.5	5	0	--	9.5	--	--
JUL												
29...	810	--	--	--	--	--	--	--	240	--	--	--
29...	810	1028	.0	--	--	--	--	--	--	--	--	0
29...	810	1028	23	313	--	--	--	--	--	--	4.7	--
29...	810	810	23	280	7.6	29.0	0	1	--	9.6	--	--
29...	810	810	92	360	7.0	15.5	0	5	--	1.9	--	--
29...	810	1028	93	329	--	--	--	--	--	--	1.6	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
DEC												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	1.5	--	4.3	2.7	.13	.04	.18	.22	.35	1.6
09...	168	86	--	172	--	--	--	--	--	--	--	--
09...	--	--	1.2	--	4.5	2.0	.12	.04	.20	.24	.36	1.6
09...	168	94	--	174	--	--	--	--	--	--	--	--
MAR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	1.9	--	4.2	2.2	.27	.04	.07	.11	.38	1.7
27...	170	86	--	168	--	--	--	--	--	--	--	--
27...	--	--	1.6	--	4.8	2.5	.40	.36	1.4	1.8	2.2	9.7
27...	196	90	--	168	--	--	--	--	--	--	--	--
JUL												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	1.2	--	5.2	2.2	.01	.00	.16	.16	.17	.75
29...	178	66	--	104	--	--	--	--	--	--	--	--
29...	188	92	--	196	--	--	--	--	--	--	--	--
29...	--	--	1.2	--	5.5	2.1	.12	.02	.14	.16	.28	1.2

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
DEC												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	.01	.00	40	0	10	80	40	<100	20	.0	50	60
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	.01	.01	70	0	0	100	110	<100	40	.0	50	80
09...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	.02	.00	50	0	10	110	20	<100	10	.0	<50	100
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	.04	.00	110	0	0	140	110	<100	120	.0	<50	160
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.01	.00	120	1	10	240	40	100	20	.0	<50	300
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.01	.01	80	1	10	220	90	100	260	.0	50	220

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

362007092170400 NORFORK LAKE ON FALL CREEK, AR (LAT 36 20 07 LONG 092 17 04)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
DEC							
09...	810	--	--	--	--	--	--
09...	810	1028	.0	--	--	--	--
09...	810	810	4.0	260	6.6	10.5	20
09...	810	810	18	265	6.9	10.5	10
MAR							
26...	810	--	--	--	--	--	--
26...	810	1028	.0	--	--	--	--
26...	810	810	3.0	340	7.4	12.0	0
26...	810	810	10	330	7.3	11.5	0
JUL							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	4.0	310	8.0	30.0	2
29...	810	810	18	285	7.8	29.0	5

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
DEC							
09...	--	18	--	--	--	--	--
09...	--	--	--	B300	--	--	--
09...	30	--	9.0	--	178	80	162
09...	20	--	9.0	--	158	82	172
MAR							
26...	--	48	--	--	--	--	--
26...	--	--	--	4	--	--	--
26...	13	--	10.1	--	176	90	170
26...	0	--	10.2	--	186	92	172
JUL							
29...	--	120	--	--	--	--	--
29...	--	--	--	2	--	--	--
29...	1	--	8.2	--	166	76	144
29...	12	--	6.6	--	172	74	158

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

361627092123000 NORFORK LAKE NEAR HAND, AR (LAT 36 16 27 LONG 092 12 30)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
DEC							
09...	810	1028	.0	--	--	--	--
09...	810	--	--	--	--	--	--
09...	810	810	26	270	7.3	10.5	0
09...	810	810	104	280	6.6	10.0	0
MAR							
26...	810	--	--	--	--	--	--
26...	810	1028	.0	--	--	--	--
26...	810	810	26	320	6.9	11.0	5
26...	810	810	100	280	7.0	9.5	0
JUL							
30...	810	--	--	--	--	--	--
30...	810	1028	.0	--	--	--	--
30...	810	810	26	300	8.4	28.0	0
30...	810	810	106	340	7.6	17.0	0

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
DEC							
09...	--	--	--	0	--	--	--
09...	--	144	--	--	--	--	--
09...	6	--	8.5	--	186	52	164
09...	20	--	8.3	--	178	84	162
MAR							
26...	--	108	--	--	--	--	--
26...	--	--	--	0	--	--	--
26...	2	--	10.8	--	170	86	162
26...	0	--	10.2	--	170	88	162
JUL							
30...	--	252	--	--	--	--	--
30...	--	--	--	0	--	--	--
30...	0	--	10.7	--	164	80	150
30...	0	--	3.8	--	188	86	168

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

353715092111600 GREERS FERRY LAKE AT BRUSH CREEK, AR (LAT 35 37 15 LONG 092 11 16)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
NOV												
04...	810	1028	.0	--	--	--	--	--	--	--	--	0
04...	810	--	--	--	--	--	--	--	96	--	--	--
04...	810	1028	6.0	51	--	--	--	--	--	--	2.4	--
04...	810	810	6.0	>50	7.3	18.0	5	4	--	8.1	--	--
04...	810	1028	24	48	--	--	--	--	--	--	1.8	--
04...	810	810	24	50	6.3	17.0	30	0	--	8.0	--	--
MAR												
16...	810	--	--	--	--	--	--	--	36	--	--	--
16...	810	1028	.0	--	--	--	--	--	--	--	--	31
16...	810	1028	12	57	--	--	--	--	--	--	1.2	--
16...	810	810	12	60	6.8	12.0	28	12	--	10.2	--	--
16...	810	1028	50	61	--	--	--	--	--	--	1.4	--
16...	810	810	50	65	7.1	11.0	30	15	--	9.7	--	--
JUN												
30...	810	--	--	--	--	--	--	--	108	--	--	--
30...	810	1028	.0	--	--	--	--	--	--	--	--	0
30...	810	1028	13	58	--	--	--	--	--	--	.7	--
30...	810	810	13	55	6.9	26.0	0	0	--	9.8	--	--
30...	810	1028	50	--	--	--	--	--	--	--	.4	--
30...	810	810	50	70	6.7	20.5	40	20	--	3.0	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	1.2	--	.1	.7	.04	.03	.39	.42	.46	2.0
04...	30	14	--	16	--	--	--	--	--	--	--	--
04...	--	--	.9	--	3.7	1.4	.03	.02	.29	.31	.34	1.5
04...	26	14	--	16	--	--	--	--	--	--	--	--
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	.8	--	5.3	1.6	.04	.00	.40	.40	.44	1.9
16...	36	20	--	18	--	--	--	--	--	--	--	--
16...	--	--	.9	--	5.6	1.6	.08	.18	.60	.78	.86	3.8
16...	36	22	--	20	--	--	--	--	--	--	--	--
JUN												
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	.8	--	6.2	2.1	.01	.00	.14	.14	.15	.66
30...	34	20	--	22	--	--	--	--	--	--	--	--
30...	--	--	1.1	--	5.0	1.5	.09	.06	.25	.31	.40	1.8
30...	32	24	--	26	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.03	.02	60	0	10	120	30	100	40	.2	50	80
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.09	.06	90	0	52	130	40	100	50	.1	50	80
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.03	.01	370	0	0	130	600	<100	220	.0	50	130
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.07	.03	500	1	10	140	820	<100	60	.0	<50	130
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	.03	.00	140	0	20	140	120	48	20	.2	30	100
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	.08	.04	220	1	20	150	520	110	520	.3	30	100
30...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

353624092301400 GREERS FERRY LAKE ABOVE HILL CREEK, AR
(LAT 35 36 24 LONG 092 30 14)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
NOV							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	12	>50	7.3	18.0	0
04...	810	810	48	50	7.4	16.5	0
MAR							
16...	810	--	--	--	--	--	--
16...	810	1028	.0	--	--	--	--
16...	810	810	14	50	6.7	12.0	20
16...	810	810	56	50	7.3	10.0	30
JUN							
30...	810	1028	.0	--	--	--	--
30...	810	--	--	--	--	--	--
30...	810	810	16	<50	7.3	26.0	20
30...	810	810	64	<50	7.2	20.0	15

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV							
04...	--	84	--	--	--	--	--
04...	--	--	--	2	--	--	--
04...	2	--	7.1	--	28	14	16
04...	11	--	5.9	--	36	16	16
MAR							
16...	--	36	--	--	--	--	--
16...	--	--	--	43	--	--	--
16...	15	--	10.3	--	24	16	14
16...	20	--	9.5	--	30	14	14
JUN							
30...	--	--	--	1	--	--	--
30...	--	132	--	--	--	--	--
30...	4	--	8.5	--	13	10	12
30...	20	--	1.9	--	18	14	16

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

353506092253200 GREERS FERRY LAKE NEAR CLINTON, AR (LAT 35 35 06 LONG 092 25 32)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI-FORM (COL. PER 100 ML) (31616)
NOV												
04...	810	1028	.0	--	--	--	--	--	--	--	--	B230
04...	810	--	--	--	--	--	--	--	288	--	--	--
04...	810	1028	3.0	50	--	--	--	--	--	--	2.0	--
04...	810	810	3.0	60	7.4	15.5	0	20	--	6.0	--	--
MAR												
16...	810	--	--	--	--	--	--	--	60	--	--	--
16...	810	1028	.0	--	--	--	--	--	--	--	--	100
16...	810	1028	5.0	28	--	--	--	--	--	--	2.0	--
16...	810	810	5.0	50	6.9	11.0	10	10	--	10.0	--	--
JUN												
29...	810	--	--	--	--	--	--	--	42	--	--	--
29...	810	1028	.0	--	--	--	--	--	--	--	--	29
29...	810	1028	9.0	35	--	--	--	--	--	--	.6	--
29...	810	810	9.0	<50	7.7	24.5	15	15	--	7.3	--	--

DATE	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	ALKA-LINITY AS CACO3 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO-GEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	.7	--	3.2	1.8	.26	.28	1.0	1.3	1.6	6.9
04...	54	10	--	16	--	--	--	--	--	--	--	--
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	.8	--	2.8	1.4	.09	.19	.39	.58	.67	3.0
16...	26	8	--	12	--	--	--	--	--	--	--	--
JUN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	1.0	--	3.0	1.7	.22	.09	.18	.27	.49	2.2
29...	12	8	--	8	--	--	--	--	--	--	--	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.14	.06	250	0	0	110	880	<100	150	.0	50	80
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.03	.01	180	0	0	150	320	<100	50	.0	<50	150
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.06	.05	250	1	20	140	490	29	60	.1	22	140
29...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

353127092250400 GREERS FERRY LAKE NEAR CHOCTAW, AR
(LAT 35 31 27 LONG 092 25 04)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
NOV							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	1.0	>50	7.4	18.0	0
MAR							
16...	810	--	--	--	--	--	--
16...	810	1028	.0	--	--	--	--
16...	810	810	2.5	50	7.4	11.5	8
JUN							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	2.0	<50	7.7	27.0	20
29...	810	810	8.0	<50	7.4	26.0	10

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV							
04...	--	216	--	--	--	--	--
04...	--	--	--	16	--	--	--
04...	18	--	8.5	--	28	10	14
MAR							
16...	--	48	--	--	--	--	--
16...	--	--	--	24	--	--	--
16...	18	--	10.6	--	20	4	8
JUN							
29...	--	84	--	--	--	--	--
29...	--	--	--	2	--	--	--
29...	8	--	8.3	--	14	8	9
29...	3	--	8.4	--	22	10	8

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

WHITE RIVER BASIN--CONTINUED

353012092053200 GREERS FERRY LAKE NEAR EDEN ISLE, AR
(LAT 35 30 12 LONG 092 05 32)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
NOV							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	10	>50	7.4	18.0	20
04...	810	810	45	>50	7.5	16.5	10
MAR							
15...	--	--	--	--	--	--	--
15...	810	1028	.0	--	--	--	--
15...	810	810	15	50	6.9	11.5	0
15...	810	810	59	50	6.8	10.5	0
JUN							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	15	<50	7.6	26.0	45
29...	810	810	61	<50	7.3	19.5	10

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV							
04...	--	120	--	--	--	--	--
04...	--	--	--	0	--	--	--
04...	0	--	8.9	--	40	14	10
04...	0	--	8.6	--	24	14	10
MAR							
15...	--	72	--	--	--	--	--
15...	--	--	--	1	--	--	--
15...	8	--	11.1	--	36	12	14
15...	2	--	11.0	--	30	10	12
JUN							
29...	--	120	--	--	--	--	--
29...	--	--	--	0	--	--	--
29...	0	--	8.1	--	18	8	12
29...	40	--	5.6	--	14	10	12

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN

350737093483500 BLUE MOUNTAIN LAKE AT THE NARROWS, AR (LAT 35 07 37 LONG 093 48 35)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
OCT							
15...	810	1028	1.0	--	--	--	--
15...	810	810	1.0	75	6.0	21.0	15
FEB							
03...	810	--	--	--	--	--	--
03...	810	1028	.0	--	--	--	--
03...	810	810	1.0	90	6.5	5.0	70
JUL							
07...	810	1028	.0	--	--	--	--
07...	810	1028	1.0	--	--	--	--
07...	810	810	1.0	120	6.7	24.5	70

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT							
15...	--	--	--	--	--	--	--
15...	20	--	5.1	--	34	20	38
FEB							
03...	--	216	--	--	--	--	--
03...	--	--	--	24	--	--	--
03...	35	--	12.1	--	28	10	20
JUL							
07...	--	12	--	7	--	--	--
07...	--	--	--	--	--	--	--
07...	50	--	6.0	--	30	14	34

350441093490500 BLUE MOUNTAIN LAKE AT SUGAR GROVE, AR (LAT 35 04 41 LONG 093 49 05)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
OCT							
15...	810	1028	.0	--	--	--	--
15...	810	810	.0	55	6.5	21.5	10
FEB							
03...	810	--	--	--	--	--	--
03...	810	1028	.0	--	--	--	--
03...	810	1028	1.0	--	--	--	--
03...	810	810	1.0	<50	6.5	6.5	50
JUL							
07...	810	--	--	--	--	--	--
07...	810	1028	.0	--	--	--	--
07...	810	810	1.0	60	7.4	25.5	35

DATE	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT							
15...	--	--	--	37	--	--	--
15...	20	--	8.3	--	32	14	30
FEB							
03...	--	288	--	--	--	--	--
03...	--	--	--	20	--	--	--
03...	--	--	--	--	--	--	--
03...	20	--	11.5	--	16	4	10
JUL							
07...	--	24	--	--	--	--	--
07...	--	--	--	37	--	--	--
07...	20	--	7.6	--	18	6	26

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

350550093480800 BLUE MOUNTAIN LAKE NEAR SUGAR GROVE, AR (LAT 35 05 50 LONG 093 48 08)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
OCT												
15...	810	1028	.0	--	--	--	--	--	--	--	--	82
15...	810	--	--	--	--	--	--	--	288	--	--	--
15...	810	1028	2.0	81	--	--	--	--	--	--	5.7	--
15...	810	810	2.0	75	6.7	22.0	15	25	--	9.9	--	--
15...	810	1028	10	96	--	--	--	--	--	--	3.0	--
15...	810	810	10	70	6.4	20.5	5	35	--	2.7	--	--
FEB												
03...	810	--	--	--	--	--	--	--	288	--	--	--
03...	810	1028	.0	--	--	--	--	--	--	--	--	9
03...	810	1028	3.0	82	--	--	--	--	--	--	2.2	--
03...	810	810	3.0	60	6.6	5.5	65	32	--	10.9	--	--
03...	810	1028	9.0	95	--	--	--	--	--	--	1.9	--
03...	810	810	9.0	70	6.7	5.0	100	40	--	11.4	--	--
JUL												
07...	810	--	--	--	--	--	--	--	24	--	--	--
07...	810	1028	.0	--	--	--	--	--	--	--	--	816
07...	810	1028	3.0	112	--	--	--	--	--	--	2.8	--
07...	810	810	4.0	105	6.8	25.0	40	30	--	5.7	--	--
07...	810	1028	10	119	--	--	--	--	--	--	3.2	--
07...	810	810	10	115	7.3	25.0	50	50	--	.8	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
OCT												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	5.2	--	7.2	6.1	.04	.01	1.3	1.3	1.3	5.9
15...	30	14	--	32	--	--	--	--	--	--	--	--
15...	--	--	3.3	--	7.5	7.7	.03	.08	1.1	1.2	1.2	5.4
15...	34	18	--	32	--	--	--	--	--	--	--	--
FEB												
03...	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	1.5	--	11	6.5	.07	.04	.08	.12	.19	.84
03...	18	8	--	12	--	--	--	--	--	--	--	--
03...	--	--	1.7	--	13	6.8	.08	.04	.34	.38	.46	2.0
03...	24	10	--	18	--	--	--	--	--	--	--	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	2.1	--	12	6.1	.00	.03	.38	.41	.41	1.8
07...	26	12	--	30	--	--	--	--	--	--	--	--
07...	--	--	2.2	--	13	6.2	.01	.10	.39	.49	.50	2.2
07...	30	14	--	34	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	.06	.03	290	2	10	120	850	<100	80	.0	100	80
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	.05	.02	500	1	40	130	1600	100	420	.1	100	130
15...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
03...	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
03...	.07	.03	340	1	0	110	1200	<100	130	.0	<50	80
03...	--	--	--	--	--	--	--	--	--	--	--	--
03...	.06	.05	430	2	0	100	1200	<100	150	.0	<50	80
03...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	.06	.01	160	1	20	150	520	0	80	.1	26	150
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	.05	.01	240	2	20	150	1000	37	430	.2	26	150
07...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

350614093422600 BLUE MOUNTAIN LAKE AT ASHLEY CREEK NEAR WAVELAND, AR
(LAT 35 06 14 LONG 093 42 26)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
OCT							
15...	810	--	--	--	--	--	--
15...	810	1028	.0	--	--	--	--
15...	810	810	2.0	80	6.5	22.0	90
FEB							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	1.0	70	6.5	6.5	150
JUL							
06...	810	--	--	--	--	--	--
06...	810	810	3.5	90	7.4	26.5	260

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT							
15...	--	144	--	--	--	--	--
15...	--	--	--	87	--	--	--
15...	110	--	8.5	--	30	14	22
FEB							
04...	--	72	--	--	--	--	--
04...	--	--	--	813	--	--	--
04...	80	--	12.1	--	14	8	12
JUL							
06...	--	96	--	--	--	--	--
06...	115	--	7.3	--	18	6	34

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

07259000 BLUE MOUNTAIN LAKE NEAR WAVELAND, AR (LAT 35 06 06 LONG 093 39 02)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
OCT												
15...	810	1028	.0	--	--	--	--	--	--	--	--	<2
15...	810	--	--	--	--	--	--	--	144	--	--	--
15...	810	1028	7.0	77	--	--	--	--	--	--	1.8	--
15...	810	810	7.0	50	6.2	20.5	210	110	--	7.9	--	--
15...	810	1028	26	75	--	--	--	--	--	--	1.0	--
15...	810	810	26	75	6.4	19.5	180	195	--	7.2	--	--
FEB												
04...	810	1028	.0	--	--	--	--	--	--	--	--	82
04...	810	--	--	--	--	--	--	--	216	--	--	--
04...	810	1028	8.0	90	--	--	--	--	--	--	2.0	--
04...	810	810	8.0	65	6.9	6.0	150	78	--	11.9	--	--
04...	810	1028	32	73	--	--	--	--	--	--	2.2	--
04...	810	810	32	68	6.8	5.5	160	80	--	12.0	--	--
JUL												
06...	810	--	--	--	--	--	--	--	108	--	--	--
06...	810	1028	.0	--	--	--	--	--	--	--	--	<3
06...	810	1028	8.0	76	--	--	--	--	--	--	1.8	--
06...	810	810	8.0	82	7.2	27.0	250	100	--	6.8	--	--
06...	810	1028	32	76	--	--	--	--	--	--	2.0	--
06...	810	810	32	80	7.1	25.0	340	180	--	3.3	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
OCT												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	2.6	--	7.6	4.1	.30	.09	2.2	2.3	2.6	12
15...	30	14	--	22	--	--	--	--	--	--	--	--
15...	--	--	2.2	--	8.4	5.8	.29	.03	.97	1.0	1.3	5.7
15...	30	16	--	22	--	--	--	--	--	--	--	--
FEB												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	2.5	--	11	9.0	.21	.04	.57	.61	.82	3.6
04...	24	12	--	16	--	--	--	--	--	--	--	--
04...	--	--	2.2	--	9.8	4.8	.22	.03	.63	.66	.88	3.9
04...	20	6	--	14	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	1.6	--	11	5.1	.17	.05	.42	.47	.64	2.8
06...	18	6	--	14	--	--	--	--	--	--	--	--
06...	--	--	1.8	--	11	5.0	.23	.06	.35	.41	.64	2.8
06...	16	6	--	16	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	.12	.01	2100	4	20	120	5000	<100	410	.0	100	100
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	.12	.04	3300	5	10	130	6600	<100	640	.0	100	100
15...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.10	.10	90	2	0	120	2400	<100	160	.0	<50	120
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.10	.10	80	2	0	110	2400	<100	160	.0	<50	110
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	.07	.02	1400	2	10	150	3800	130	240	.1	30	150
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	.12	.04	1400	3	30	150	6200	110	730	.1	33	150
06...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

07259500 PETIT JEAN RIVER NEAR WAVELAND, AR (LAT 35 06 17 LONG 093 37 53)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
OCT												
07...	1028	1028	--	16	--	--	17.5	--	--	--	--	--
15...	810	1028	22	--	68	--	--	--	--	--	1.2	33
15...	810	810	--	--	50	6.2	20.0	240	110	8.8	--	--
NOV												
18...	1028	1028	--	17	--	--	12.0	--	--	--	--	--
DEC												
29...	1028	1028	--	207	--	--	9.5	--	--	--	--	--
FEB												
03...	810	1028	85	--	69	--	--	--	--	--	1.8	87
03...	810	810	--	--	70	7.3	6.5	160	75	12.2	--	--
10...	1028	1028	--	151	--	--	7.5	--	--	--	--	--
MAR												
23...	1028	1028	--	175	--	--	16.0	--	--	--	--	--
MAY												
04...	1028	1028	--	16	--	--	16.5	--	--	--	--	--
JUN												
22...	1028	1028	--	28	--	--	22.0	--	--	--	--	--
JUL												
07...	810	1028	38	--	77	--	--	--	--	--	1.8	823
07...	810	810	--	--	80	7.1	26.0	260	110	7.4	--	--
AUG												
03...	1028	1028	--	20	--	--	26.0	--	--	--	--	--
SEP												
15...	1028	1028	--	21	--	--	21.0	--	--	--	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	2.2	--	7.3	3.3	.28	.04	.55	.59	.87	3.9
15...	34	16	--	24	--	--	--	--	--	--	--	--
NOV												
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
03...	--	--	2.6	--	9.7	4.4	.21	.05	.64	.69	.90	4.0
03...	22	8	--	16	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	--	--	1.8	--	11	5.2	.17	.05	.55	.60	.77	3.4
07...	20	6	--	14	--	--	--	--	--	--	--	--
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
15...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

07259500 PETIT JEAN RIVER NEAR WAVELAND, AR--CONTINUED

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
15...	.12	.01	2300	3	20	90	5200	0	410	.0	50	60
15...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
03...	.09	.09	70	2	0	80	2000	<100	140	.0	<50	60
03...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	.08	.02	1400	2	30	180	4500	8	360	.1	35	180
07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
15...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

345536093243600 NIMROD LAKE AT HIGHWAY 27 BRIDGE, AR (LAT 34 55 36 LONG 093 24 36)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI-FORM (COL. PER 100 ML) (31616)
OCT												
14...	810	1028	.0	--	--	--	--	--	--	--	--	B15
14...	810	--	--	--	--	--	--	--	24	--	--	--
14...	810	1028	1.0	53	--	--	--	--	--	--	1.9	--
14...	810	810	1.0	<50	6.6	22.0	10	16	--	7.7	--	--
FEB												
02...	810	1028	.0	--	--	--	--	--	--	--	--	B2
02...	810	--	--	--	--	--	--	--	432	--	--	--
02...	810	1028	2.0	41	--	--	--	--	--	--	1.5	--
02...	810	810	2.0	<50	7.2	6.5	40	12	--	12.1	--	--
JUN												
23...	810	--	--	--	--	--	--	--	24	--	--	--
23...	810	1028	.0	--	--	--	--	--	--	--	--	16
23...	810	1028	2.5	--	--	--	--	--	--	--	2.2	--
23...	810	810	2.5	>50	6.5	24.0	40	30	--	5.8	--	--

DATE	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)	ALKA-LINITY AS CACO3 (MG/L) (00410)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO-GEN (N) (MG/L) (00605)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	1.5	--	2.5	3.4	.00	.00	.49	.49	.49	2.2
14...	20	20	--	24	--	--	--	--	--	--	--	--
FEB												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	.9	--	5.0	3.8	.00	.03	.26	.29	.29	1.3
02...	12	6	--	10	--	--	--	--	--	--	--	--
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	1.2	--	3.2	3.1	.01	.04	.30	.34	.35	1.6
23...	18	8	--	0	--	--	--	--	--	--	--	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.03	.01	160	1	30	80	440	0	110	.0	50	30
14...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	.01	.01	180	0	0	90	650	<100	80	.0	<50	90
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	.04	.01	460	1	0	130	1100	20	100	.0	24	150
23...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

350027093173000 PORTER CREEK NEAR PLAINVIEW, AR (LAT 35 00 27 LONG 093 17 30)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
FEB							
02...	810	810	1.0	50	7.4	5.0	50
JUN							
23...	810	--	--	--	--	--	--
23...	810	1028	.0	--	--	--	--
23...	810	810	1.0	72	6.6	18.5	50

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
FEB							
02...	20	--	12.2	--	16	6	10
JUN							
23...	--	24	--	--	--	--	--
23...	--	--	--	57	--	--	--
23...	20	--	2.8	--	18	10	1

345951093180400 NIMROD LAKE ABOVE PLAINVIEW, AR (LAT 34 59 41 LONG 093 18 04)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
FEB							
02...	810	810	1.0	50	7.2	5.5	45
JUN							
23...	810	--	--	--	--	--	--
23...	810	1028	.0	--	--	--	--
23...	810	810	1.0	80	6.7	19.5	40

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
FEB							
02...	15	--	13.3	--	22	6	14
JUN							
23...	--	24	--	--	--	--	--
23...	--	--	--	170	--	--	--
23...	20	--	3.5	--	24	10	1

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

345903093183600 NIMROD LAKE AT PLAINVIEW, AR (LAT 34 59 03 LONG 093 18 36)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
OCT							
14...	810	--	--	--	--	--	--
14...	810	1028	.0	--	--	--	--
14...	810	810	1.0	110	5.9	20.0	30
FEB							
02...	810	1028	.0	--	--	--	--
02...	810	810	1.0	72	7.4	6.0	40
JUN							
23...	810	--	--	--	--	--	--
23...	810	1028	.0	--	--	--	--
23...	810	810	1.5	115	6.2	20.0	50

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT							
14...	--	144	--	--	--	--	--
14...	--	--	--	2200	--	--	--
14...	84	--	.0	--	50	22	60
FEB							
02...	--	--	--	66	--	--	--
02...	18	--	12.0	--	18	8	12
JUN							
23...	--	24	--	--	--	--	--
23...	--	--	--	8360	--	--	--
23...	46	--	1.6	--	38	16	2

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

345703093192400 NIMROD LAKE NEAR WARDS CROSSING, AR (LAT 34 57 03 LONG 093 19 24)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
OCT												
14...	810	1028	.0	--	--	--	--	--	--	--	--	84
14...	810	--	--	--	--	--	--	--	30	--	--	--
14...	810	1028	3.0	65	--	--	--	--	--	--	4.2	--
14...	810	810	3.0	<50	6.6	24.0	0	20	--	10.1	--	--
14...	810	1028	12	50	--	--	--	--	--	--	2.0	--
14...	810	810	12	<50	6.6	21.0	0	18	--	5.8	--	--
FEB												
02...	810	1028	.0	--	--	--	--	--	--	--	--	88
02...	810	--	--	--	--	--	--	--	216	--	--	--
02...	810	1028	3.0	65	--	--	--	--	--	--	2.3	--
02...	810	810	3.0	60	6.9	6.0	170	54	--	9.3	--	--
02...	810	1028	9.0	55	--	--	--	--	--	--	2.8	--
02...	810	810	9.0	60	7.2	6.0	170	60	--	9.1	--	--
JUN												
23...	810	--	--	--	--	--	--	--	30	--	--	--
23...	810	1028	.0	--	--	--	--	--	--	--	--	1
23...	810	1028	3.0	--	--	--	--	--	--	--	2.4	--
23...	810	810	3.0	60	7.1	25.0	40	40	--	5.8	--	--
23...	810	1028	10	--	--	--	--	--	--	--	2.8	--
23...	810	810	10	65	6.7	24.5	60	70	--	1.4	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	2.5	--	3.2	7.0	.01	.14	2.4	2.5	2.5	11
14...	24	12	--	20	--	--	--	--	--	--	--	--
14...	--	--	1.6	--	2.4	3.1	.01	.02	.94	.96	.97	4.3
14...	30	14	--	24	--	--	--	--	--	--	--	--
FEB												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	1.7	--	8.7	5.3	.02	.02	.64	.66	.68	3.0
02...	12	6	--	12	--	--	--	--	--	--	--	--
02...	--	--	1.7	--	7.6	5.0	.03	.05	.64	.69	.72	3.2
02...	18	4	--	10	--	--	--	--	--	--	--	--
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	1.3	--	3.6	3.8	.08	.14	.53	.67	.75	3.3
23...	20	8	--	0	--	--	--	--	--	--	--	--
23...	--	--	1.4	--	4.6	4.8	.01	.08	.61	.69	.70	3.1
23...	30	8	--	1	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.08	.03	180	1	20	90	290	<100	80	.0	100	50
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.05	.02	180	1	30	80	360	<100	250	.1	100	60
14...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	.10	.09	450	2	0	80	3900	<100	560	.0	50	160
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	.19	.12	60	2	0	80	4200	<100	540	.0	<50	70
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	.11	.07	380	2	10	130	950	77	180	.0	38	140
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	.09	.03	540	2	0	120	2100	44	800	.0	25	200
23...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

345654093171200 NIMROD LAKE AT PRAIRIE CREEK, AR (LAT 34 56 54 LONG 093 17 12)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
OCT							
14...	810	--	--	--	--	--	--
14...	810	1028	.0	--	--	--	--
14...	810	810	3.0	<50	6.5	23.5	0
FEB							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	2.0	<50	7.4	9.0	50
JUN							
22...	810	--	--	--	--	--	--
22...	810	1028	.0	--	--	--	--
22...	810	810	2.0	55	7.3	27.0	30
22...	810	810	8.0	>50	7.2	26.0	35

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT							
14...	--	288	--	--	--	--	--
14...	--	--	--	82	--	--	--
14...	32	--	8.7	--	30	10	20
FEB							
04...	--	288	--	--	--	--	--
04...	--	--	--	84	--	--	--
04...	40	--	12.0	--	12	6	8
JUN							
22...	--	42	--	--	--	--	--
22...	--	--	--	0	--	--	--
22...	30	--	8.2	--	16	8	0
22...	25	--	5.2	--	22	6	0

345722093145600 NIMROD LAKE NEAR CARTER COVE, AR (LAT 34 57 22 LONG 093 14 56)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) (00095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
OCT							
14...	810	--	--	--	--	--	--
14...	810	1028	.0	--	--	--	--
14...	810	810	2.0	<50	6.5	23.0	0
FEB							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	1.0	<50	7.3	8.0	30
JUN							
22...	810	--	--	--	--	--	--
22...	810	1028	.0	--	--	--	--
22...	810	810	2.0	>50	7.4	26.5	32

DATE	TUR-BID-ITY (JTU) (00070)	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM (COL. PER 100 ML) (31616)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT							
14...	--	288	--	--	--	--	--
14...	--	--	--	82	--	--	--
14...	14	--	9.2	--	26	6	18
FEB							
04...	--	144	--	--	--	--	--
04...	--	--	--	1	--	--	--
04...	40	--	12.2	--	10	2	8
JUN							
22...	--	24	--	--	--	--	--
22...	--	--	--	86	--	--	--
22...	60	--	7.5	--	16	4	0

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

07262000 NIMROD LAKE NEAR NIMROD, AR (LAT 34 57 07 LONG 093 09 38)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)
OCT												
14...	810	1028	.0	--	--	--	--	--	--	--	--	82
14...	810	--	--	--	--	--	--	--	42	--	--	--
14...	810	1028	7.0	41	--	--	--	--	--	--	4.0	--
14...	810	810	7.0	<50	6.6	20.5	0	20	--	7.6	--	--
14...	810	1028	29	43	--	--	--	--	--	--	4.4	--
14...	810	810	29	<50	6.5	20.0	0	15	--	5.2	--	--
FEB												
04...	810	--	--	--	--	--	--	--	288	--	--	--
04...	810	1028	.0	--	--	--	--	--	--	--	--	0
04...	810	1028	7.0	40	--	--	--	--	--	--	2.8	--
04...	810	810	7.0	>50	7.4	6.5	40	30	--	11.4	--	--
04...	810	1028	30	42	--	--	--	--	--	--	3.3	--
04...	810	810	30	<50	7.6	6.0	30	30	--	11.5	--	--
JUN												
22...	810	--	--	--	--	--	--	--	42	--	--	--
22...	810	1028	.0	--	--	--	--	--	--	--	--	1
22...	810	1028	7.0	--	--	--	--	--	--	--	1.4	--
22...	810	810	7.0	60	7.3	25.5	20	20	--	5.9	--	--
22...	810	1028	22	--	--	--	--	--	--	--	1.6	--
22...	810	810	22	60	6.9	23.5	20	45	--	.5	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	1.3	--	2.8	3.3	.01	.03	1.1	1.1	1.1	4.9
14...	22	8	--	20	--	--	--	--	--	--	--	--
14...	--	--	1.5	--	2.8	3.0	.02	.07	.89	.96	.98	4.3
14...	28	10	--	18	--	--	--	--	--	--	--	--
FEB												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	1.8	--	4.9	3.4	.00	.04	.54	.58	.58	2.6
04...	16	2	--	8	--	--	--	--	--	--	--	--
04...	--	--	1.5	--	6.3	3.2	.02	.05	.46	.51	.53	2.3
04...	18	4	--	8	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	1.2	--	3.8	3.1	.01	.06	.27	.33	.34	1.5
22...	22	4	--	0	--	--	--	--	--	--	--	--
22...	--	--	1.5	--	3.2	3.0	.01	.14	.19	.33	.34	1.5
22...	18	6	--	0	--	--	--	--	--	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L) (00665)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL ALUMINUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHROMIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT												
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.05	.02	200	1	20	80	310	<100	130	.0	100	90
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	.04	.02	240	1	0	90	430	<100	120	.0	100	60
14...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.03	.02	270	1	0	90	720	120	120	.0	<50	90
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	.02	.01	320	2	0	130	850	<100	130	.0	<50	180
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	.01	.00	160	1	10	120	260	13	140	.0	32	150
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	.01	.00	540	2	20	150	1100	30	500	.0	38	180
22...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

07262500 FOURCHE LA FAVE RIVER NEAR NIMROD, AR (LAT 34 57 02 LONG 093 09 16)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)		SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (JTU) (00070)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)
OCT													
08...	1028	1028	10		--	--	19.5	--	--	--	--	--	--
14...	810	1028	12		39	--	--	--	--	--	1.7	B12	--
14...	810	810		--	<50	7.1	19.0	0	30	8.8	--	--	28
NOV													
18...	1028	1028	14		--	--	12.0	--	--	--	--	--	--
DEC													
30...	1028	1028	16		--	--	7.0	--	--	--	--	--	--
FEB													
03...	810	1028	69		46	--	--	--	--	--	2.7	B4	--
03...	810	810		--	<50	7.3	6.5	40	30	11.8	--	--	8
11...	1028	1028	112		--	--	8.5	--	--	--	--	--	--
MAR													
24...	1028	1028	453		--	--	14.0	--	--	--	--	--	--
MAY													
05...	1028	1028	26		--	--	16.5	--	--	--	--	--	--
JUN													
22...	1028	1028	38		--	--	22.0	--	--	--	--	--	--
24...	810	1028	41		--	--	--	--	--	--	1.2	66	--
24...	810	810		--	>50	6.7	22.0	45	32	7.8	--	--	26
AUG													
04...	1028	1028	48		--	--	24.5	--	--	--	--	--	--
SEP													
13...	1028	1028	29		--	--	23.0	--	--	--	--	--	--

DATE	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL POTASSIUM (K) (MG/L) (00937)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL KJELDAHL NITROGEN (N) (MG/L) (00625)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)	TOTAL PHOSPHORUS (P) (MG/L) (00665)
OCT												
08...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	1.1	--	2.6	3.0	.02	.07	.64	.71	.73	3.2	.03
14...	10	--	16	--	--	--	--	--	--	--	--	--
NOV												
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
03...	--	1.2	--	6.2	3.8	.01	.05	.51	.56	.57	2.5	.03
03...	2	--	8	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	1.1	--	3.3	3.1	.04	.13	.24	.37	.41	1.8	.01
24...	8	--	0	--	--	--	--	--	--	--	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
13...	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

ARKANSAS RIVER BASIN--CONTINUED

07262500 FOURCHE LA FAVE RIVER NEAR NIMROD, AR--CONTINUED

DATE	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ALUM-INUM (AL) (UG/L) (01105)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	TOTAL COPPER (CU) (UG/L) (01042)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
14...	.02	210	1	0	50	340	0	150	.0	0	30
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
30...	--	--	--	--	--	--	--	--	--	--	--
FEB											
03...	.02	220	2	0	90	600	<100	100	.0	<50	60
03...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
JUN											
22...	--	--	--	--	--	--	--	--	--	--	--
24...	.00	600	1	10	130	1200	12	1400	.0	30	120
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
SEP											
13...	--	--	--	--	--	--	--	--	--	--	--

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)
WHITE RIVER BASIN					
07048000 - WEST FORK WHITE RIVER AT GREENLAND, ARK (LAT 35 58 50 LONG 094 10 25)					
OCT , 1975					
15...	1028	1028	6.9	--	20.0
NOV					
24...	1028	1028	55	--	6.0
JAN , 1976					
12...	1028	1028	49	--	3.0
FEB					
17...	1028	1028	20	--	12.5
MAR					
30...	1028	1028	121	--	11.0
MAY					
04...	1028	1028	75	--	14.5
JUN					
08...	1028	1028	34	--	19.0
JUL					
21...	1028	1028	3.5	--	21.0
AUG					
30...	1028	1028	.56	--	20.0
07048600 - WHITE RIVER NEAR FAYETTEVILLE, ARK. (LAT 36 04 23 LONG 094 04 51)					
OCT , 1975					
15...	1028	1028	41	--	20.5
NOV					
24...	1028	1028	227	--	6.5
JAN , 1976					
12...	1028	1028	262	--	5.0
FEB					
18...	1028	1028	140	--	12.0
MAR					
30...	1028	1028	578	--	11.0
MAY					
04...	1028	1028	310	--	16.0
JUN					
08...	1028	1028	135	--	22.0
JUL					
21...	1028	1028	25	--	27.0
AUG					
30...	1028	1028	8.2	--	23.5
07055000 - WHITE RIVER NEAR FLIPPIN, ARK. (LAT 36 18 35 LONG 092 33 28)					
OCT , 1975					
17...	1028	1028	493	--	11.5
FEB , 1976					
18...	1028	1028	1780	14.0	8.5
MAR					
30...	1028	1028	325	--	12.0
MAY					
05...	1028	1028	15600	22.0	12.0
SEP					
17...	1028	1028	726	26.0	17.5
07069500 - SPRING RIVER AT IMBODEN, ARK. (LAT 36 12 19 LONG 091 10 19)					
OCT , 1975					
07...	1028	1028	693	--	17.0
NOV					
19...	1028	1028	547	--	11.5
DEC					
30...	1028	1028	4130	5.0	8.5
FEB , 1976					
11...	1028	1028	792	10.0	10.0
MAR					
24...	1028	1028	1020	22.0	14.5
MAY					
06...	1028	1028	792	17.0	17.0
JUN					
23...	1028	1028	591	20.5	22.0
AUG					
04...	1028	1028	777	17.5	22.5
SEP					
10...	1028	1028	413	10.0	21.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)
WHITE RIVER BASIN--CONTINUED					
07072000 - ELEVENPOINT RIVER NR RAVENDEN SPRINGS, ARK. (LAT 36 20 48 LONG 091 06 48)					
OCT , 1975					
07...	1028	1028	999	--	16.5
NOV					
20...	1028	1028	720	--	12.0
DEC					
30...	1028	1028	2110	4.0	10.0
FEB , 1976					
12...	1028	1028	855	2.0	11.0
MAR					
25...	1028	1028	918	14.0	14.0
MAY					
06...	1028	1028	943	17.5	18.0
JUN					
22...	1028	1028	743	26.0	20.5
AUG					
03...	1028	1028	715	27.0	22.0
SEP					
09...	1028	1028	552	24.5	21.0
07076850 - CYPRESS BAYOU NEAR BEEBE, ARK (LAT 35 01 30 LONG 091 52 23)					
NOV , 1975					
21...	1028	1028	3.0	--	9.0
DEC					
18...	1028	1028	156	1.5	5.0
19...	1028	1028	93	7.0	3.5
24...	1028	1028	41	4.0	4.0
FEB , 1976					
12...	1028	1028	165	14.0	11.0
18...	1028	1028	762	14.0	14.5
MAR					
26...	1028	1028	50	16.5	15.5
MAY					
07...	1028	1028	6.8	22.0	18.0
19...	1028	1028	20	--	19.0
JUN					
29...	1028	1028	590	30.5	26.0
JUL					
02...	1028	1028	32	30.0	24.0
23...	1028	1028	.00	30.5	26.0
SEP					
10...	1028	1028	.00	20.0	20.5
07077380 - CACHE RIVER AT EGYPT, ARK (LAT 35 51 28 LONG 090 56 00)					
OCT , 1975					
07...	1028	1028	95	--	16.5
NOV					
19...	1028	1028	39	--	12.0
DEC					
30...	1028	1028	2740	7.0	7.5
FEB , 1976					
10...	1028	1028	358	7.0	20.0
MAR					
24...	1028	1028	588	18.0	13.5
MAY					
05...	1028	1028	76	25.5	18.0
JUN					
22...	1028	1028	1150	29.0	22.0
AUG					
02...	1028	1028	304	27.5	25.5
SEP					
08...	1028	1028	162	25.5	23.0
07077950 - BIG CREEK AT POPLAR GROVE, ARK. (LAT 34 33 20 LONG 090 50 44)					
JAN , 1976					
26...	1028	1028	350	4.0	10.0
MAR					
04...	1028	1028	723	--	18.5
APR					
16...	1028	1028	295	28.5	19.0
MAY					
18...	1028	1028	107	23.0	23.0
JUL					
12...	1028	1028	104	32.0	24.0
AUG					
09...	1028	1028	21	31.0	24.0
23...	1028	1028	41	30.0	24.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	INSTAN-TANEOUS DIS-CHARGE (CFS) (00061)	AIR TEMPER-ATURE (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)
ARKANSAS RIVER BASIN					
07195800 - FLINT CREEK AT SPRINGTOWN, ARK. (LAT 36 15 20 LONG 094 25 50)					
OCT , 1975					
15...	1028	1028	11	--	18.0
NOV					
25...	1028	1028	11	--	10.0
JAN , 1976					
12...	1028	1028	13	--	9.5
FEB					
18...	1028	1028	10	--	12.0
MAR					
31...	1028	1028	13	--	12.5
MAY					
05...	1028	1028	18	--	15.0
JUN					
09...	1028	1028	11	--	16.5
JUL					
22...	1028	1028	8.3	--	21.0
AUG					
31...	1028	1028	6.3	--	17.5
SEP					
15...	1028	1028	6.5	--	19.0
07247000 - POTEAU RIVER AT CAUTHRON, ARK. (LAT 34 55 08 LONG 094 17 55)					
OCT , 1975					
21...	1028	1028	.23	--	14.5
DEC					
03...	1028	1028	3.8	--	5.5
JAN , 1976					
14...	1028	1028	20	--	6.0
FEB					
23...	1028	1028	103	--	9.0
APR					
06...	1028	1028	33	--	18.0
19...	1028	1028	19	--	18.0
MAY					
05...	1028	1028	11	--	20.0
18...	1028	1028	14	--	19.5
31...	1028	1028	12	--	22.5
JUN					
08...	1028	1028	4.2	--	24.0
17...	1028	1028	2.1	--	26.0
28...	1028	1028	16	--	24.0
JUL					
12...	1028	1028	3.9	--	27.0
28...	1028	1028	.27	--	31.0
AUG					
12...	1028	1028	1.9	--	31.0
25...	1028	1028	.13	--	37.0
SEP					
07...	1028	1028	.74	--	22.0
07252000 - MULBERRY RIVER NEAR MULBERRY, ARK. (LAT 35 34 37 LONG 094 00 55)					
OCT , 1975					
28...	1028	1028	19	--	17.5
DEC					
08...	1028	1028	868	--	7.0
JAN , 1976					
21...	1028	1028	166	--	2.0
MAR					
03...	1028	1028	225	--	14.0
APR					
13...	1028	1028	209	--	17.0
MAY					
26...	1028	1028	112	--	29.5
JUL					
06...	1028	1028	233	--	24.0
AUG					
18...	1028	1028	2.8	--	30.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)
ARKANSAS RIVER BASIN--CONTINUED					
07257000 - BIG PINEY CREEK NEAR DOVER, ARK. (LAT 35 32 58 LONG 093 09 30)					
OCT , 1975					
29...	1028	1028	16	--	17.0
DEC					
08...	1028	1028	624	--	10.0
JAN , 1976					
21...	1028	1028	107	--	4.5
MAR					
03...	1028	1028	229	--	14.0
APR					
13...	1028	1028	177	--	16.0
MAY					
26...	1028	1028	90	--	20.5
JUL					
06...	1028	1028	158	--	25.0
AUG					
17...	1028	1028	1.1	--	29.0
07260500 - PETIT JEAN RV AT DANVILLE ARK. (LAT 35 03 33 LONG 093 23 44)					
OCT , 1975					
07...	1028	1028	16	--	19.0
NOV					
18...	1028	1028	17	--	12.5
DEC					
29...	1028	1028	1290	--	9.0
FEB , 1976					
10...	1028	1028	198	--	7.5
MAR					
23...	1028	1028	286	--	14.5
MAY					
04...	1028	1028	39	--	16.5
JUN					
22...	1028	1028	34	--	25.5
AUG					
03...	1028	1028	17	--	26.5
SEP					
13...	1028	1028	20	--	23.5
07261000 - CADRON CREEK NEAR GUY, ARK. (LAT 35 17 56 LONG 092 24 10)					
OCT , 1975					
15...	1028	1028	7.6	--	18.0
NOV					
24...	1028	1028	21	--	5.5
JAN , 1976					
07...	1028	1028	290	-3.0	3.0
FEB					
13...	1028	1028	144	19.0	9.0
MAY					
04...	1028	1028	105	--	16.0
AUG					
03...	1028	1028	9.6	22.0	25.0
SEP					
15...	1028	1028	4.3	21.0	21.5
RED RIVER BASIN					
07337000 - RED RIVER AT INDEX, ARK (LAT 33 33 07 LONG 094 02 28)					
OCT , 1975					
22...	1028	1028	3010	--	19.0
DEC					
08...	1028	1028	5490	13.0	12.0
JAN , 1976					
15...	1028	1028	4180	14.0	8.5
FEB					
25...	1028	1028	3830	15.5	13.0
APR					
07...	1028	1028	3080	19.5	20.0
30...	1028	1028	31500	21.5	18.0
MAY					
19...	1028	1028	17200	27.0	22.0
JUL					
07...	1028	1028	12800	32.5	27.5
AUG					
12...	1028	1028	3660	32.0	29.5
SEP					
24...	1028	1028	4720	24.0	24.5

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)
RED RIVER BASIN--CONTINUED					
07339500 - ROLLING FORK NR. DE QUEEN, ARK (LAT 34 02 51 LONG 094 24 47)					
OCT , 1975					
21...	1028	1028	1.5	--	18.0
JAN , 1976					
13...	1028	1028	28	20.5	8.0
FEB					
24...	1028	1028	134	22.5	11.5
APR					
06...	1028	1028	87	30.0	19.0
MAY					
20...	1028	1028	84	21.5	21.0
JUL					
08...	1028	1028	41	31.0	27.0
AUG					
11...	1028	1028	7.4	21.5	26.0
SEP					
23...	1028	1028	50	17.5	21.5
07340300 - COSSATOT RIVER NEAR VANDERVOORT, ARK. (LAT 34 22 46 LONG 094 14 08)					
OCT , 1975					
21...	1028	1028	15	--	17.0
DEC					
03...	1028	1028	53	--	7.0
JAN , 1976					
14...	1028	1028	40	--	6.0
FEB					
23...	1028	1028	149	--	10.5
APR					
07...	1028	1028	72	--	14.5
MAY					
19...	1028	1028	67	--	15.5
JUN					
17...	1028	1028	42	--	22.0
JUL					
28...	1028	1028	16	--	27.0
SEP					
08...	1028	1028	13	--	24.5
07340500 - COSSATOT RIVER NEAR DEQUEEN, ARK. (LAT 34 02 45 LONG 094 12 42)					
OCT , 1975					
21...	1028	1028	9.5	--	17.0
JAN , 1976					
13...	1028	1028	75	21.0	8.0
FEB					
24...	1028	1028	139	24.5	10.0
APR					
08...	1028	1028	166	23.0	15.0
MAY					
21...	1028	1028	283	24.5	19.5
JUL					
09...	1028	1028	470	25.0	22.5
AUG					
11...	1028	1028	49	29.0	27.5
SEP					
22...	1028	1028	62	29.5	24.0
07341000 - SALINE RIVER NEAR DIERKS, ARK. (LAT 34 05 45 LONG 094 05 04)					
OCT , 1975					
21...	1028	1028	21	--	17.5
DEC					
02...	1028	1028	72	--	11.5
JAN , 1976					
13...	1028	1028	8.5	22.0	8.5
FEB					
24...	1028	1028	15	18.5	12.0
APR					
06...	1028	1028	187	25.5	14.0
MAY					
20...	1028	1028	89	28.0	21.0
JUL					
08...	1028	1028	190	35.0	19.0
AUG					
10...	1028	1028	36	28.0	26.0
SEP					
22...	1028	1028	13	29.0	22.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)
RED RIVER BASIN--CONTINUED					
07361500 - ANTOINE RIVER AT ANTOINE, ARKANSAS (LAT 34 02 20 LONG 093 25 05)					
NOV , 1975					
06...	1028	1028	1.3	--	17.0
DEC					
15...	1028	1028	8.9	7.5	12.0
JAN , 1976					
28...	1028	1028	170	16.5	6.5
MAR					
17...	1028	1028	288	14.5	10.5
APR					
26...	1028	1028	150	14.5	18.0
JUN					
08...	1028	1028	169	28.0	21.5
JUL					
19...	1028	1028	22	28.0	16.5
SEP					
01...	1028	1028	1.6	31.0	25.0
07362500 - MORO CREEK NEAR FORDYCE, ARKANSAS (LAT 33 47 32 LONG 092 19 30)					
DEC , 1975					
17...	1028	1028	23	--	6.5
JAN , 1976					
27...	1028	1028	300	7.5	8.0
MAR					
01...	1028	1028	115	18.0	14.5
APR					
14...	1028	1028	27	26.5	18.5
MAY					
20...	1028	1028	132	28.0	19.0
JUL					
10...	1028	1028	569	34.0	23.0
AUG					
25...	1028	1028	.00	35.0	27.0
07363000 - SALINE RIVER AT BENTON, ARK. (LAT 34 34 05 LONG 092 36 40)					
NOV , 1975					
05...	1028	1028	107	--	17.0
DEC					
11...	1028	1028	146	--	8.0
JAN , 1976					
30...	1028	1028	440	15.5	6.5
FEB					
18...	1028	1028	8330	16.5	13.5
MAR					
10...	1028	1028	2870	18.5	11.5
APR					
21...	1028	1028	280	18.5	20.0
JUN					
04...	1028	1028	417	25.5	21.0
JUL					
22...	1028	1028	49	34.0	31.0
AUG					
27...	1028	1028	16	33.0	27.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)
07363200 - SALINE RIVER NEAR SHERIDAN, ARK. (LAT 34 06 56 LONG 092 24 21)					
DEC , 1975					
17...	1028	1028	216	--	9.0
JAN , 1976					
22...	1028	1028	538	6.0	15.0
MAR					
03...	1028	1028	611	25.5	16.5
APR					
15...	1028	1028	369	32.0	19.0
MAY					
17...	1028	1028	2220	19.0	17.0
JUL					
08...	1028	1028	2010	37.0	26.0
AUG					
26...	1028	1028	36	36.0	28.0
07363300 - HURRICANE CR NR SHERIDAN, ARK (LAT 34 19 10 LONG 092 20 40)					
DEC , 1975					
19...	1028	1028	22	--	3.7
JAN , 1976					
22...	1028	1028	96	13.0	5.0
MAR					
03...	1028	1028	80	25.0	17.5
10...	1028	1028	2660	19.5	11.0
APR					
15...	1028	1028	35	27.0	17.0
JUN					
29...	1028	1028	101	34.0	24.0
JUL					
09...	1028	1028	32	33.0	22.0
07363500 - SALINE RIVER NEAR RYE, ARK. (LAT 33 42 00 LONG 092 01 33)					
DEC , 1975					
16...	1028	1028	320	--	10.5
JAN , 1976					
27...	1028	1028	2030	6.5	9.0
MAR					
01...	1028	1028	4380	21.5	14.5
APR					
13...	1028	1028	803	22.5	18.0
MAY					
20...	1028	1028	2490	23.0	18.0
JUL					
11...	1028	1028	3800	37.0	24.0
AUG					
25...	1028	1028	61	32.0	27.0
07364150 - BAYOU BARTHOLOMEW NEAR MCGEHEE, ARK (LAT 33 37 40 LONG 091 26 45)					
DEC , 1975					
16...	1028	1028	127	--	11.0
JAN , 1976					
28...	1028	1028	431	11.5	8.5
MAR					
02...	1028	1028	1110	20.0	16.0
APR					
13...	1028	1028	370	25.0	18.5
MAY					
19...	1028	1028	232	23.0	18.0
JUL					
10...	1028	1028	245	34.0	25.0
AUG					
24...	1028	1028	55	33.0	25.0
07365800 - CORNIE BAYOU NEAR THREE CREEKS (LAT 33 02 21 LONG 092 56 15)					
DEC , 1975					
16...	1028	1028	31	11.0	11.5
JAN , 1976					
27...	1028	1028	630	13.0	10.5
MAR					
18...	1028	1028	191	23.0	13.5
APR					
27...	1028	1028	21	18.0	16.5
JUN					
09...	1028	1028	136	26.0	20.0
JUL					
20...	1028	1028	28	28.0	24.0
AUG					
31...	1028	1028	.65	25.0	23.0

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

RED RIVER BASIN

07341500 RED RIVER AT FULTON, AR (LAT 33 56 26 LONG 093 48 09)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SUSPENDED SEDIMENT (MG/L) (80154)	SUSPENDED SEDIMENT DISCHARGE (T/DAY) (80155)
JAN					
28...	810	810	8200	229	5070
FEB					
04...	810	810	93400	989	249000
11...	810	810	70800	776	148000
18...	810	810	36900	265	26400
25...	810	810	21700	321	18800
MAR					
04...	810	810	38400	507	52500
18...	810	810	51200	500	69000
25...	810	810	31800	182	15600
APR					
01...	810	810	64600	226	39300
08...	810	810	53800	78	11400
15...	810	810	35000	239	22600
22...	810	810	17800	231	11100
29...	810	810	4200	132	1490
MAY					
06...	810	810	50200	172	23200
13...	810	810	34200	304	28000
20...	810	810	26700	610	43900
27...	810	810	11700	54	1710
JUN					
03...	810	810	53900	719	104000
10...	810	810	49700	1450	195000
17...	810	810	58900	1200	190000
24...	810	810	28900	129	10100
JUL					
01...	810	810	34100	432	39700
08...	810	810	13200	105	3750
15...	810	810	4700	280	3550
22...	810	810	5900	70	1110
29...	810	810	10300	83	2310
AUG					
05...	810	810	28200	1750	133000
12...	810	810	11500	182	5650
19...	810	810	11500	162	5010
26...	810	810	9100	126	3100
SEP					
02...	810	810	4700	78	994
09...	810	810	4900	83	1100
16...	810	810	4000	84	902
23...	810	810	8800	159	3780
30...	810	810	5400	306	4460

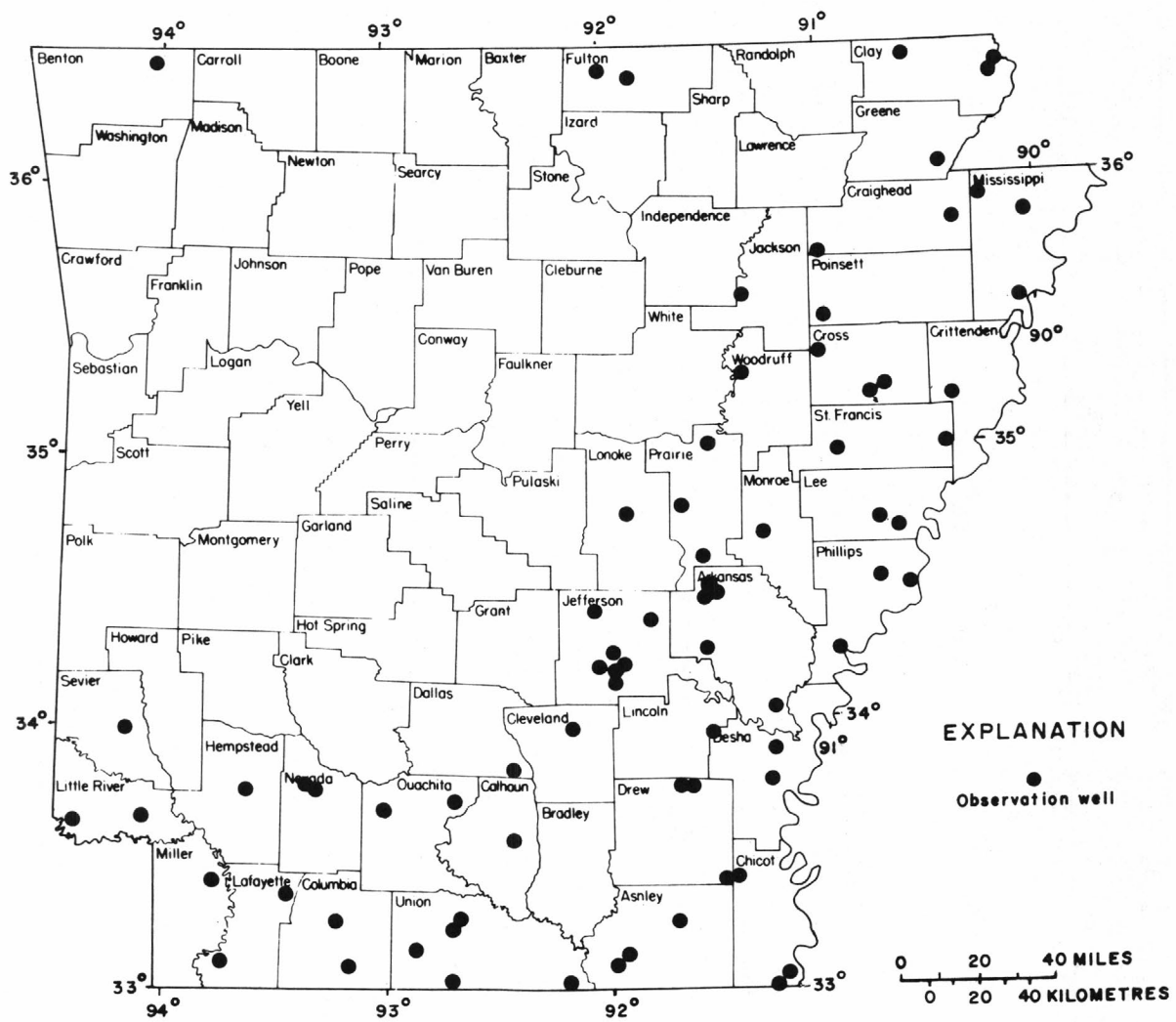


Figure 5.--Locations of observation wells in Arkansas.

ARKANSAS COUNTY

340529091154801. Local number, 07S02W17BBA1.
LOCATION.--Lat 34°05'29", long 91°15'48", near Tichnor.
Owner: Sam Whiting.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 5-2 in (0.13-0.05 m), depth 95 ft (29 m), cased 0-92 ft (0-28 m), screened 92-95 ft (28-29 m).
DATUM.--Land-surface, 183.38 ft (55.89 m) above mean sea level. Measuring point: Top of casing, 2.60 ft (0.79 m) above land surface.
PERIOD OF RECORD.--December 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.09 ft (12.22 m) below land surface, Apr. 20, 1962; lowest, 74.09 ft (22.58 m) below land surface, July 24, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 15, 1976, 44.76 ft (13.64 m) below land surface.

341537091314001. Local number, 05S05W15ADD1.
LOCATION.--Lat 34°15'37", long 91°31'40", near Bayou Meto.
Owner: J. W. Freeman.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18-8 in (0.46-0.20 m), depth 110 ft (34 m), screened 65-105 ft (20-32 m).
DATUM.--Land-surface, 193 ft (59 m) above mean sea level. Measuring point: Hole in east side of pump, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--November 1954, April 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.45 ft (15.38 m) below land surface, Apr. 1, 1975; lowest, 56.09 ft (17.10 m) below land surface, Sept. 16, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 16, 1976, 50.95 ft (15.53 m) below land surface.

342839091322601. Local number, 03S05W03BBB1.
LOCATION.--Lat 34°28'39", long 91°32'26", near Stuttgart.
Owner: J. R. Oliver.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 24 in (0.61 m), depth 125 ft (38 m).
DATUM.--Land surface, 216.2 ft (65.9 m) above mean sea level. Measuring point: Top of casing at land surface.
REMARKS.--Water-quality records for 1969 available in files of district office.
PERIOD OF RECORD.--May 1928 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 79.05 ft (24.23 m) below land surface, May 20, 1928; lowest, 106.57 ft (32.48 m) below land surface, Aug. 12, 1964.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	104.59	104.34	104.19	104.50	103.80	103.65	103.59	103.63	103.81	103.93	104.47	104.87
10	104.48	104.30	104.09	---	103.62	103.54	103.73	103.59	103.76	104.07	104.57	105.04
15	104.36	---	104.14	104.00	103.78	103.58	103.48	103.20	103.75	104.06	104.52	104.90
20	104.48	---	104.20	104.01	103.56	103.28	103.27	103.73	103.84	104.28	104.85	104.71
25	104.49	104.26	103.70	103.26	103.84	103.53	103.32	103.44	103.82	104.21	104.80	104.76
EOM	104.53	104.21	103.85	103.54	103.50	103.59	103.65	103.38	103.80	104.22	105.01	104.81

WTR YEAR 1976 MAX 103.11 MAY 14, 15, 1976 MAX 105.09 AUG. 30, 1976

342842091303401. Local number, 03S05W02AAB1.
LOCATION.--Lat 34°28'42", long 91°30'34", near Stuttgart.
Owner: Clarence Weaver.
AQUIFER.--Sparta sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 801 ft (244 m), screened 698-798 ft (213-243 m).
DATUM.--Land surface, 210 ft (64 m) above mean sea level. Measuring point: Hole in east side of pump, 1.50 ft 0.46 m) above land surface.
REMARKS.--Water-quality records for 1950 available in files of district office.
PERIOD OF RECORD.--March 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.22 ft (18.05 m) below land surface, Mar. 29, 1951; lowest, 157.98 ft (48.15 m) below land surface, Sept. 12, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 18, 1976, 126.23 ft (38.47 m) below land surface.

342924091315301. Local number, 02S05W34BDA1.
LOCATION.--Lat 34°29'24", long 91°31'53" near Stuttgart.
Owner: Alfred Heien.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 28 in (0.71 m), depth 760 ft (232 m).
DATUM.--Land surface, 216 ft (66 m) above mean sea level. Measuring point: Top of casing, 0.50 ft (0.15 m) above land surface.
REMARKS.--Water-level fluctuations caused largely by nearby irrigation pumpage. Water-quality records for 1969 available in files of district office.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 89.52 ft (27.29 m) below land surface, Apr. 27, 1961; lowest 223.31 ft (68.06 m) below land surface, Aug. 12, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	162.41	149.06	143.38	138.54	135.10	132.88	130.52	140.20	149.58	160.08	213.29	166.91
10	158.65	147.78	142.14	138.23	134.53	132.19	130.42	131.19	160.74	163.48	218.24	194.27
15	156.23	146.82	140.93	137.64	134.12	131.70	130.17	130.99	162.39	174.81	---	186.43
20	154.06	145.74	140.40	137.06	133.69	131.51	129.89	130.48	160.12	182.14	---	184.06
25	152.34	144.96	139.64	136.19	133.29	131.21	129.52	137.32	159.33	199.59	---	180.49
EOM	150.63	144.20	138.99	135.87	133.11	130.73	129.32	145.60	161.36	209.78	182.20	175.28

WTR YEAR 1976 MAX 129.20 MAY 1, 1976 MAX 223.31 AUG. 12, 1976

330624091552801. Local number, 18S08W28DDD2.
LOCATION.--Lat 33°06'24", long 91°55'28" near Crossett.
Owner: Georgia-Pacific Paper Co.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4 in (0.10 m), depth 155 ft (47 m), screened 142-152 ft (43-46 m).
DATUM.--Land surface, 163.26 ft (49.76 m) above mean sea level. Measuring point: Top of casing, 3.27 ft (1.00 m) above land surface.
PERIOD OF RECORD.--June 1960 to August 1963, April 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 88.06 ft (26.84 m) below land surface, Mar. 23, 1975; lowest, 93.28 ft (28.43 m) below land surface, Aug. 22, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	88.87	88.94	88.82	89.17	88.92	88.88	88.73	88.73	88.98	88.79	88.73	88.74
10	88.94	89.04	88.85	88.87	88.77	88.79	88.91	88.73	88.76	88.83	88.85	88.94
15	88.83	88.97	88.85	88.93	88.87	88.65	88.72	88.56	88.73	88.84	88.76	88.76
20	89.03	88.73	88.83	89.04	88.63	88.46	88.53	88.96	88.86	88.86	88.82	88.68
25	89.09	88.80	88.35	88.42	88.97	88.69	88.68	88.78	88.77	88.67	88.78	88.68
EOM	88.91	88.97	88.73	88.59	88.68	88.79	88.75	88.77	88.70	88.74	88.76	88.86

WTR YEAR 1976 MAX 88.24 DEC. 25, 1975 MIN 89.46 JAN. 4, 1976

331009091523201. Local number, 18S08W01DBA1.
LOCATION.--Lat 33°10'09", long 91°52'32", near Crossett.
Owner: Earl Daugherty and Sons.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in (0.46 m), depth 128 ft (39 m), cased 0-108 ft (0-33 m).
DATUM.--Land surface, 179 ft (55 m) above mean sea level. Measuring point: Top of casing, 0.60 ft (0.18 m) above land surface.
REMARKS.--Water-quality records for 1947 available in files of district office.
PERIOD OF RECORD.--April 1946, April 1948 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.90 ft (21.61 m) below land surface, Apr. 23, 1946; lowest, 86.17 ft (26.43 m) below land surface, Sept. 16, 1970.
MEASUREMENT FOR CURRENT YEAR.--Mar. 31, 1976, 83.48 ft (25.44 m) below land surface.

331729091424001. Local number, 16S06W27BAB1.
LOCATION.--Lat 33°17'29", long 91°42'40", near Mist.
Owner: E. T. Muller.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-20 m), depth 115 ft (35 m).
DATUM.--Land surface, 182 ft (55 m) above mean sea level. Measuring point: Cutout in east side of casing, 1.20 ft (0.37 m) above land surface.
PERIOD OF RECORD.--April 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.45 ft (22.08 m) below land surface, Mar. 6, 1972; lowest, 74.42 ft (22.68 m) below land surface, Oct. 16, 1969.
MEASUREMENT FOR CURRENT YEAR.--Mar. 31, 1976, 73.96 ft (22.54 m) below land surface.

BENTON COUNTY

332636094012601. Local number, 21N29W35DDB1.
LOCATION.--Lat 33°26'36", long 94°01'26", at Pea Ridge National Park.
Owner: National Park Service.
AQUIFER.--Gunter Sandstone of Ordovician age.
WELL CHARACTERISTICS.--Drilled recreation artesian well, diameter 10 in (0.25 m), depth 1,769 ft (539 m), cased 0-416 ft (0-127 m), open hole 416-1,769 ft (127-539 m).
DATUM.--Land surface, 1,406 ft (429 m) above mean sea level. Measuring point: Airhole in top of casing, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1965 available in files of district office.
PERIOD OF RECORD.--October 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 294.00 ft (89.61 m) below land surface, Oct. 12, 1965; lowest, 320.22 ft (97.60 m) below land surface, June 8, 1967.
MEASUREMENT FOR CURRENT YEAR.--Dec. 2, 1975, 300.05 ft (91.46 m) below land surface.

CALHOUN COUNTY

333230092274501. Local number, 13S13W32CDA1.
LOCATION.--Lat 33°32'30", long 92°27'45", at Sturgis Street and State Highway No. 274 at Hampton.
Owner: City of Hampton.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 18-6 in (0.46-0.15 m), depth 450 ft (137 m).
DATUM.--Land surface, 202 ft (62 m) above mean sea level. Measuring point: Hole in south side of pump, 2.50 ft (0.76 m) above land surface.
PERIOD OF RECORD.--July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 134.49 ft (40.99 m) below land surface, July 6, 1964; lowest, 158.24 ft (48.23 m) below land surface, Sept. 28, 1970.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1976, 152.25 ft (46.41 m) below land surface.

330215091120501. Local number, 19S01W21AAA1.
LOCATION.--Lat 33°02'15", long 91°12'05", near Readland.
Owner: C. M. Rankin.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 24 in (0.61 m), depth 102 ft (31 m).
DATUM.--Land surface, 110 ft (34 m) above mean sea level. Measuring point: Top of casing, north side, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1952 available in files of district office.
PERIOD OF RECORD.--March 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.65 ft (0.20 m) below land surface, Mar. 29, 1973; lowest, 32.96 ft (10.05 m) below land surface, Oct. 2, 1969.
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1976, 10.89 ft (3.32 m) below land surface.

330640091154103. Local number, 18S02W25ABB3.
LOCATION.--Lat 33°06'40", long 91°15'41", at Gordon Street and Highway No. 8, at Eudora (city well no. 3).
Owner: City of Eudora.
AQUIFER.--Sand, Cockfield Formation of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 18-6 in (0.46-0.15 m), depth 330 ft (101 m).
DATUM.--Land surface, 135 ft (41 m) above mean sea level. Measuring point: Hole in west side of pump base, 2.50 ft (0.76 m) above land surface.
REMARKS.--Water-quality records for 1970 and 1975 available in files of the district office.
PERIOD OF RECORD.--January 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.75 ft (11.20 m) below land surface, Mar. 20, 1975; lowest, 45.47 ft (13.86 m) below land surface, Jan. 17, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1976, 37.71 ft (11.49 m) below land surface.

332628091261201. Local number, 14S03W32BCD1.
LOCATION.--Lat 33°26'28", long 91°26'12", near Jerome.
Owner: Multiponics Inc.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16-12 in (0.41-0.30 m), depth 120 ft (37 m).
DATUM.--Land surface, 130 ft (40 m) ablve mean sea level. Measuring point: Top of 2-in. (0.05-m) pipe, southwest side of pump, 2.50 ft (0.76 m) above land surface.
REMARKS.--Water-quality records for 1970 available in files of district office.
PERIOD OF RECORD.--April 1955 to March 1961, March 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.51 ft (6.86 m) below land surface, Mar. 28, 1960; lowest, 28.85 ft (8.79 m) below land surface, Mar. 7, 1969.
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1976, 23.20 ft (7.07 m) below land surface.

CLAY COUNTY

362311090111002. Local number, 20N08E11BAC2.
LOCATION.--Lat 33°23'11", long 90°11'10", at municipal light plant, Piggott (well no. 2).
Owner: City of Piggott.
AQUIFER.--Nacatoch Sand of Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, depth 1,000 ft (305 m).
DATUM.--Land surface, 290 ft (88 m) above mean sea level. Measuring point: 1-in (0.03-m) hole in bottom of discharge pipe, 4.00 ft (1.22 m) above land surface.
REMARKS.--Well in vicinity of continuously pumping wells.
PERIOD OF RECORD.--March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.05 ft (1.23 m) below land surface, Mar. 25, 1969; lowest, 18.49 ft (4.64 m) below land surface, Apr. 13, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 18, 1976, 15.53 ft (4.73 m) below land surface.

362502090095801. Local number, 21N08E36ABB1.
LOCATION.--Lat 36°25'02", long 90°09'58", near Piggott.
Owner: A. L. Freytag.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 90 ft (27 m), cased 0-70 ft (0-21 m), screened 70-90 ft (21-27 m).
DATUM.--Land surface, 283 ft (86 m) above mean sea level. Measuring point: ½-in (0.01-m) plug in north side of pump, 1.00 ft (0.30 m) above land surface.
REMARKS.--Well commonly flows in the early spring.
PERIOD OF RECORD.--June 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.80 ft (0.24 m) above land surface, Apr. 11, 1973; lowest, 9.48 ft (2.89 m) below land surface, Jan. 15, 1957.
MEASUREMENT FOR CURRENT YEAR.--Mar. 19, 1976, 1.20 ft (0.37 m) below land surface.

362759090332401. Local number, 21N05E17ABB1.
LOCATION.--Lat 36°27'59", long 90°33'24", near Corning.
Owner: D and E Farms (formerly Harold Brothers).
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 105 ft (32 m).
DATUM.--Land surface, 300 ft (91 m) above mean sea level. Measuring point: Top of casing, 0.50 ft (0.15 m) above land surface.
PERIOD OF RECORD.--June 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.91 ft (3.33 m) below land surface, Apr. 4, 1974; lowest, 20.88 ft (6.36 m) below land surface, Mar. 11, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 18, 1976, 12.44 ft (3.79 m) below land surface.

CLEVELAND COUNTY

335729092112002. Local number, 09S11W01DDA2.
LOCATION.--Lat 33°57'29", long 92°11'20", at Rison.
Owner: Town of Rison.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10-6 in (0.25-0.15 m), depth 550 ft (168 m), cased 0-500 ft (0-152 m), screened 500-550 ft (152-168 m).
DATUM.--Land surface, 266 ft (81 m) above mean sea level. Measuring point: Hole in east side of pump, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--November 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 151.20 ft (46.09 m) below land surface, May 13, 1966; lowest, 179.06 ft (54.58 m) below land surface, Mar. 29, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1976, 179.06 ft (54.58 m) below land surface.

330557093114601. Local number, 19S20W08DAD1.
LOCATION.--Lat 33°05'57", long 93°11'46", at Emerson.
Owner: Town of Emerson.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8-4 in (0.20-0.10 m), depth 451 ft (137 m), cased 0-431 ft (0-131 m), screened 431-451 ft (131-137 m).
DATUM.--Land surface, 320 ft (98 m) above mean sea level. Measuring point: Hole in cap, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--October 1950, March 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 200.02 ft (60.97 m) below land surface, Oct. 12, 1950; lowest, 259.51 ft (79.10 m) below land surface, Apr. 7, 1976.
MEASUREMENT FOR CURRENT YEAR.--Apr. 7, 1976, 259.51 ft (79.10 m) below land surface.

331609093144902. Local number 17S21W11DCC2.
LOCATION.--Lat 33°16'09", long 93°14'49", at Magnolia (city well no. 2).
Owner: City of Magnolia.
Aquifer.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused public-supply artesian well, diameter 8 in (0.20 m), depth 428 ft (130 m), cased 0-365 ft (0-111 m), screened 365-425 ft (111-130 m).
DATUM.--Land surface, 303 ft (92 m) above mean sea level. Measuring point: Top of casing, 1.30 ft (0.40 m) above land surface.
REMARKS.--Well in vicinity of continuously pumping wells.
PERIOD OF RECORD.--April 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 238.11 ft (72.58 m) below land surface, Apr. 29, 1953; lowest, 354.39 ft (108.02 m) below land surface, Sept. 1, 1965.
MEASUREMENT FOR CURRENT YEAR.--Apr. 7, 1976, 317.94 ft (96.91 m) below land surface.

CRAIGHEAD COUNTY

354246090503801. Local number, 13N02E35DAA1.
LOCATION.--Lat 35°42'46", long 90°50'38", near Otwell.
Owner: A. B. Clark.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused irrigation water-table well, diameter 12 in (0.30 m), depth 120 ft (37 m), screened 100-120 ft (30-37 m).
DATUM.--Land surface, 250 ft (76 m) above mean sea level. Measuring point: Top of casing, at land surface.
REMARKS.--Well in vicinity of heavy seasonal irrigation pumping.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.20 ft (15.30 m) below land surface, June 19, 1957; lowest, 69.75 ft (21.26 m) below land surface, Aug. 29, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	66.92	66.71	66.88	66.60	66.64	66.31	66.29	67.05	67.48	68.96	69.15
10	67.10	67.00	66.70	66.48	66.26	66.31	66.34	66.93	66.85	67.41	69.20	69.00
15	67.07	67.80	66.73	66.48	66.40	66.16	66.18	67.27	67.71	68.16	69.34	68.86
20	67.05	67.72	67.68	66.70	66.25	66.06	66.09	67.61	68.03	68.44	69.44	68.79
25	67.10	66.79	67.27	66.12	66.44	66.20	66.08	67.81	68.14	68.60	69.57	68.70
EOM	66.88	66.94	66.46	66.29	66.24	66.36	66.20	67.04	67.54	68.84	69.68	68.71

WTR YEAR 1976 MAX 65.88 MAR. 8, 1976 MIN 69.80 AUG. 29, 1976

354921090281201. Local number, 14N06E20CCD1.
LOCATION.--Lat 35°49'21", long 90°28'12", near Lake City.
Owner: Harley Box.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 8-6 in (0.20-0.15 m), depth 150 ft (46 m), casing, slotted, 125-150 ft (38-46 m).
DATUM.--Land surface, 226 ft (69 m) above mean sea level. Measuring point: Top of casing, south side, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.60 ft (0.18 m) below land surface, Apr. 9, 1973; lowest, 5.79 ft (1.76 m) below land surface, Sept. 16, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1976, 2.10 ft (0.64 m) below land surface.

CRITTENDEN COUNTY

351043090235901. Local number, 07N07E31CCC1.
LOCATION.--Lat 35°10'43", long 90°23'59", near Lansing.
Owner: John McKnight.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 16 in (0.41 m), depth 98 ft (30 m).
DATUM.--Land surface, 207 ft (63 m) above mean sea level. Measuring point: Hole in steel plate, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--March 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.31 ft (3.75 m) below land surface, May 17, 1958; lowest, 19.37 ft (5.90 m) below land surface, Sept. 2, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 17, 1976, 17.08 ft (5.21 m) below land surface.

351326090473603. Local number, 07N03E16CCC3.
LOCATION.--Lat 35°13'26", long 90°47'36" at Wynne (city well no. 3).
Owner: City of Wynne.
AQUIFER.--Sand, Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-10 in (0.41-0.25 m), depth 800 ft (244 m), cased 730 ft (223 m), screened 730-800 ft (223-244 m).
DATUM.--Land surface, 253 ft (77 m) above mean sea level. Measuring point: Bottom of large opening in north side of pump, 3.00 ft (0.91 m) above land surface.
REMARKS.--Well is infrequently pumped.
PERIOD OF RECORD.--November 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.02 ft (21.04 m) below land surface, Apr. 4, 1968; lowest, 73.35 ft (22.36 m) below land surface, Sept. 15, 1975.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1976, 73.19 ft (22.31 m) below land surface.

351456090423201. Local number, 07N04E07ABC1.
LOCATION.--Lat 35°14'56", long 90°42'32", near Princedale.
Owner: J. E. Hollan, Jr.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (0.4 m), depth 196 ft (60 m).
DATUM.--Land surface, 222 ft (68 m) above mean sea level. Measuring point: Plug hole in pump base, 1.90 ft (0.58 m) above land surface.
PERIOD OF RECORD.--February 1955, February 1961-62, July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.12 ft (11.92 m) below land surface, June 6, 1962; lowest, 46.94 ft (14.31 m) below land surface, Jan. 14, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1976, 40.38 ft (12.31 m) below land surface.

352204091000201. Local number, 09N01E33BBA1.
LOCATION.--Lat 35°22'04", long 91°00'02", near Hickory Ridge.
Owner: H. H. Holleman (formerly R. A. Diebold).
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12-8 in (0.30-0.20 m).
DATUM.--Land surface, 225 ft (69 m) above mean sea level. Measuring point: Top of pit casing north side, 0.90 ft (0.27 m) above land surface.
PERIOD OF RECORD.--January 1957 to August 1962, April 1964 to April 1974, March 1976.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.90 ft (10.64 m) below land surface, June 19, 1957; lowest, 49.62 ft (15.12 m) below land surface, Mar. 9, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 9, 1976, 49.62 ft (15.12 m) below land surface.

DALLAS COUNTY

334830092245702. Local number, 10S13W34ACA2.
LOCATION.--Lat 33°48'30", long 92°24'57", at Fordyce.
Owner: Fordyce Water Co.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused public-supply artesian well, diameter 10-8 in (0.25-0.20 m), depth 888 ft (271 m).
DATUM.--Land surface, 272 ft (83 m) above mean sea level. Measuring point: Top of pipe in concrete base, 0.5 ft (0.15 m) above land surface.
REMARKS.--Water-quality records for 1946 available in files of district office.
PERIOD OF RECORD.--October 1949 to May 1950, June 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.81 ft (29.81 m) below land surface, May 8, 1950; lowest, 134.84 ft (41.10 m) below land surface, Nov. 11, 1975.
MEASUREMENT FOR CURRENT YEAR.--Apr. 2, 1976, 134.72 ft (41.06 m) below land surface.

DESHA COUNTY

334615091170501. Local number, 11S02W03CCA1.
LOCATION.--Lat 33°46'15", long 91°17'05", near Rohwer.
Owner: R. A. Adcock.
AQUIFER.--Sparta sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 m), depth 754 ft (230 m), cased 0-679 ft (0-207 m), screened 679-754 ft (207-230 m).
DATUM.--Land surface, 139 ft (42 m) above mean sea level. Measuring point: Top of casing, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--July 1952, December 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.50 ft (2.59 m) below land surface, July 27, 1952; lowest, 36.54 ft (11.14 m) below land surface, Oct. 29, 1975.
MEASUREMENT FOR CURRENT YEAR.--Mar. 23, 1976, 36.41 ft (11.10 m) below land surface.

335258091152301. Local number, 09S02W26DDC1.
LOCATION.--Lat 33°52'58", long 91°15'23", near Watson.
Owner: George H. Smith.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 5-2 in (0.13-0.05 m), depth 97 ft (30 m) cased 0-94 ft (0-29 m), screened 94-97 ft (29-30 m).
DATUM.--Land surface, 149.27 ft (45.50 m) above mean sea level. Measuring point: Top of casing, 1.71 ft (0.52 m) above land surface.
REMARKS.--Recorder inoperative from October 1975 through February 1976. Water-level fluctuates largely with stage of Arkansas River.
PERIOD OF RECORD.--October 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.94 ft (0.90 m) below land surface, Feb. 17, 1959; lowest, 20.12 ft (6.13 m) below land surface, Aug. 7, 1965.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5						---	7.01	9.60	10.45	12.83	16.64	19.48
10						---	7.21	9.97	10.87	13.08	17.45	19.52
15						---	7.40	10.05	11.92	13.83	18.02	19.38
20						---	7.56	9.82	12.16	14.82	18.56	19.36
25						7.49	7.72	9.78	11.62	15.39	18.99	18.83
EOM						7.15	8.67	10.00	11.93	---	19.44	18.48

335811091325601. Local number, 09S04W06BBC1.
LOCATION.--Lat 33°58'11", long 91°32'56", near Gould.
Owner: Holthoff Brothers.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-10 in (0.46-0.25 m), depth 102 ft (31 m), screened 70-102 ft (21-31 m).
DATUM.--Land surface, 161.75 ft (49.30 m) above mean sea level. Measuring point: Top of casing, 0.50 ft (0.15 m) above land surface.
REMARKS.--Water-quality records for 1952 available in files of district office.
PERIOD OF RECORD.--August 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.87 ft (0.27 m) below land surface, May 8, 1958; lowest, 14.83 ft (4.52 m) below land surface, July 9, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 23, 1976, 8.91 ft (2.72 m) below land surface.

DREW COUNTY

332418091272601. Local number, 15S04W12DDA1.
LOCATION.--Lat 33°24'18", long 91°27'26", near Jerome.
Owner: Ernest Ellington and Son.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18-8 in (0.46-0.20 m), depth 760 ft (232 m), cased 0-680 ft (0-207 m), screened 680-760 ft (207-232 m).
DATUM.--Land surface, 125 ft (38 m) above mean sea level. Measuring point: Top of casing, south side, 2.00 ft (0.61 m) above land surface.
REMARKS.--Water-quality records for 1952 available in files of district office.
PERIOD OF RECORD.--March 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.03 ft (8.85 m) below land surface, June 12, 1962; lowest, 44.81 ft (13.66 m) below land surface, Oct. 24, 1974.
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1976, 43.70 ft (13.32 m) below land surface.

334545091383701. Local number, 11S05W08CCC1.
LOCATION.--Lat 33°45'45", long 91°38'37", near Florence.
Owner: J. E. Holloway.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 m), depth 153 ft (47 m), cased 0-93 ft (0-28 m), screened 93-153 ft (28-47 m).
DATUM.--Land surface, 185 ft (56 m) above mean sea level. Measuring point: Plug in pump, south side, 2.00 ft (0.61 m) above land surface.
REMARKS.--Well not available for water-level measurement in 1976. Water level measurements will be continued in 1977.
PERIOD OF RECORD.--January 1965 to March 1968, March 1970 to March 1975.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.47 ft (8.98 m) below land surface, May 8, 1965; lowest, 35.76 ft (10.90 m) below land surface, Sept. 16, 1966.

334601091412101. Local number, 11S06W11DBC1.
LOCATION.--Lat 33°46'01", long 91°41'21", near Florence.
Owner: James E. Henley, Jr.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-10 in (0.46-0.25 m), depth 864 ft (263 m), cased 0-824 ft (0-251 m), screened 824-864 ft (251-263 m).
DATUM.--Land surface, 203 ft (62 m) above mean sea level. Measuring point: Hole in south side of pump base, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1953 available in files of district office.
PERIOD OF RECORD.--March 1962, March 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.10 ft (28.07 m) below land surface, March 27, 1964; lowest, 119.02 ft (36.28 m) below land surface, Oct. 24, 1974.
MEASUREMENT FOR CURRENT YEAR.--Mar. 25, 1976, 118.19 ft (36.02 m) below land surface.

FULTON COUNTY

362207091492401. Local number, 20N08W27ABD1.
LOCATION.--Lat 36°22'07", long 91°49'24", at Salem.
Owner: City of Salem.
AQUIFER.--Gunter Sandstone of Ordovician age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in (0.20 m), depth 1,282 ft (391 m).
DATUM.--Land surface, 660 ft (201 m) above mean sea level. Measuring point: Hole in plate on top of casing, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--February 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.20 ft (3.11 m) below land surface, Nov. 20, 1975; lowest, 50.73 ft (15.46 m) below land surface, Nov. 21, 1974.
MEASUREMENT FOR CURRENT YEAR.--Nov. 20, 1975, 10.20 ft (3.11 m) below land surface.

362338091590401. Local number, 20N09W18CAD1.
LOCATION.--Lat 36°23'38", long 91°59'04", at Viola.
Owner: City of Viola.
AQUIFER.--Sandstone, Roubidoux Formation of Ordovician age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in (0.20 m), depth 1,250 ft (381 m), cased 0-900 ft (0-274 m), open hole 900-1,250 ft (274-381 m).
DATUM.--Land surface, 880 ft (268 m) above mean sea level. Measuring point: 1¾-in (0.03-m) plug on east side of pump 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--June 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 118.80 ft (36.21 m) below land surface, June 6, 1967; lowest, 137.50 ft (41.91 m) below land surface, May 21, 1968.
MEASUREMENT FOR CURRENT YEAR.--Nov. 20, 1975, 118.80 ft (36.21 m) below land surface.

360219090262501. Local number, 16N06E03CCC1.
LOCATION.--Lat 36°02'19", long 90°26'25", near Paragould.
Owner: Otis Williams.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-10 in (0.46-0.25 m), depth 194 ft (59 m).
DATUM.--Land surface, 255 ft (78 m) above mean sea level. Measuring point: Hole in pump base, north side, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.21 ft (5.55 m) below land surface, Mar. 10, 1958; lowest, 40.01 ft (12.20 m) below land surface, July 22, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1976, 26.80 ft (8.17 m) below land surface.

HEMPSTEAD COUNTY

334358093370101. Local number, 12S24W06DAD1.
LOCATION.--Lat 33°43'58", long 93°37'01", at Hope (city well no. 2).
Owner: City of Hope.
AQUIFER.--Sand, Tokio Formation of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in (0.30 m), depth 1,200 ft (366 m).
DATUM.--Land surface, 355 ft (108 m) above mean sea level. Measuring point: 2-in (0.05-m) pipe in south side of concrete base, 0.80 ft (0.24 m) above land surface.
PERIOD OF RECORD.--April 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.44 ft (24.21 m) below land surface, Apr. 5, 1971; lowest, 152.76 ft (46.56 m) below land surface, Mar. 23, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 23, 1976, 152.76 ft (46.56 m) below land surface.

JACKSON COUNTY

353323091213701. Local number, 11N03W30CBA1.
LOCATION.--Lat 35°33'23", long 91°21'37", near Olyphant.
Owner: R. D. Wilmans, Jr.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 14 in (0.36 m), depth 90 ft (27 m), cased 0-60 ft (0-18 m), screened 60-90 ft (18-27 m).
DATUM.--Land surface, 223 ft (68 m) above mean sea level. Measuring point: Hole in west side of casing, at land surface.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.56 ft (3.22 m) below land surface, Mar. 30, 1973; lowest, 28.25 ft (8.61 m) below land surface, Sept. 21, 1959.
MEASUREMENT FOR CURRENT YEAR.--Mar. 26, 1976, 16.76 ft (5.11 m) below land surface.

JEFFERSON COUNTY

340901091564601. Local number, 07S08W06BAA1.
LOCATION.--Lat 34°09'01", long 91°56'46", near Pine Bluff.
Owner: W. K. Shell.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16-8 in (0.41-0.20 m), depth 160 ft (49 m), cased 0-120 ft (0-37 m), screened 120-160 ft (37-49 m).
DATUM.--Land surface, 202.31 ft (61.66 m) above mean sea level. Measuring point: Top of 1½-in (0.04 m) pipe on south side of pump base, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.88 ft (2.40 m) below land surface, Apr. 5, 1962; lowest, 21.09 ft (6.43 m) below land surface, July 9, 1965.
MEASUREMENT FOR CURRENT YEAR.--Mar. 26, 1976, 11.53 ft (3.51 m) below land surface.

341043091562201. Local number, 06S08W30AAA1.
LOCATION.--Lat 34°10'43", long 91°56'22", near Pine Bluff.
Owner: Arkansas Flying Service.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused public-supply artesian well, diameter 8 in (0.20 m), depth 951 ft (290 m), cased 0-900 ft (0-274 m), screened 900-940 ft (274-287 m).
DATUM.--Land surface, 205.37 ft (62.60 m) above mean sea level. Measuring point: Top of casing, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1949 available in files of district office.
PERIOD OF RECORD.--March 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 151.00 ft (46.02 m) below land surface, July 5, 1965; lowest, 206.04 ft (62.80 m) below land surface, Dec. 23, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	203.09	203.83	202.85	204.30	202.88	204.21	200.33	201.68	196.01	200.98	203.39
10	---	203.30	203.44	203.42	203.23	203.19	204.80	200.91	199.88	195.65	200.77	200.56
15	---	203.50	203.89	203.90	201.02	203.65	205.19	201.30	198.08	197.68	202.08	200.72
20	205.32	203.94	204.74	204.63	201.54	203.86	204.75	201.48	197.76	198.98	202.74	201.51
25	205.80	203.54	204.54	204.24	202.26	204.03	204.06	201.64	197.24	200.03	203.26	202.41
EOM	203.96	203.92	201.81	204.46	202.57	203.47	201.06	202.07	196.33	200.74	203.67	202.43

WTR YEAR 1976 MAX 194.84 JULY 7, 1976 MIN 205.91 OCT. 24, 25, 1975

341138091551601. Local number, 06S08W16CCC1.
LOCATION.--Lat 34°11'38", long 91°55'16", at Intersection of U.S. Highway 62 and State Highway 81 near Pine Bluff (company observation well no. 3).
Owner: International Paper Company.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 2 in (0.05 m), depth 805 ft (245 m).
DATUM.--Land surface, 202.42 ft (61.70 m) above mean sea level. Measuring point: Top of casing, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--August 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 108.98 ft (33.22 m) below land surface, Sept. 4, 1958; lowest, 221.67 ft (67.57 m) below land surface, Oct. 24, 1975.
MEASUREMENT FOR CURRENT YEAR.--Apr. 9, 1976, 220.57 ft (67.23 m) below land surface.

341151092022101. Local number, 06S09W17CCA1.
LOCATION.--Lat 34°11'51", long 92°02'21", at Midland Drive North and Midland Drive South, Pine Bluff.
Owner: General Water Works Corporation.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 4-2 in (0.10-0.05 m), depth 906 ft (276 m).
DATUM.--Land surface, 234.34 ft (71.43 m) above mean sea level. Measuring point: Top of casing, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--October 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.36 ft (24.49 m) below land surface, Oct. 17, 1956; lowest, 239.09 ft (72.87 m) below land surface, Oct. 24, 1975.
MEASUREMENT FOR CURRENT YEAR.--Apr. 9, 1976, 234.21 ft (71.39 m) below land surface; Nov. 21, 1976, 227.15 ft (69.24 m) below land surface.

341427091565201. Local number, 05S09W35AAB1.
LOCATION.--Lat 34°14'27", long 91°56'52", at St. Louis and Southwestern Railroad yard near Pine Bluff (company observation well no. 5).
Owner: International Paper Company.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 2 in (0.05 m), depth 809 ft (247 m).
DATUM.--Land surface, 204.67 ft (62.38 m) above mean sea level. Measuring point: Top of casing, 3.00 ft (0.91 m) above land surface.
PERIOD OF RECORD.--September 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.73 ft (16.68 m) below land surface, May 23, 1957; lowest, 250.73 ft (76.42 m) below land surface, Oct. 26, 1971.
MEASUREMENT FOR CURRENT YEAR.--Apr. 9, 1976, 248.68 ft (75.80 m) below land surface.

342116091474501. Local number, 04S07W17CCB1.
LOCATION.--Lat 34°21'16", long 91°47'45", near Wabbaseka.
Owner: Frank Ragland.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-12 in (0.46-0.30 m), depth 101 ft (31 m), cased 0-71 ft (0-22 m), screened 71-101 ft (22-31 m).
DATUM.--Land surface, 203 ft (62 m) above mean sea level. Measuring point: Top of end of discharge pipe, 7.00 ft (2.13 m) above land surface.
PERIOD OF RECORD.--October 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.05 ft (3.67 m) below land surface, Feb. 27, 1952; lowest, 34.83 ft (10.62 m) below land surface, Aug. 29, 1956.
MEASUREMENT FOR CURRENT YEAR.--Mar. 29, 1976, 31.35 ft (9.56 m) below land surface.

342609092032801. Local number, 03S10W23CAD1.
LOCATION.--Lat 34°26'09", long 92°03'28", near Tucker.
Owner: W. B. Sain.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in (0.20 m), depth 68 ft (21 m), cased 0-53 ft (0-16 m), screened 53-68 ft (16-21 m).
DATUM.--Land surface, 219.15 ft (66.80 m) above mean sea level. Measuring point: Top of casing, 1.50 ft (0.46 m), above land surface.
REMARKS.--Recorder well, July 1971 to August 1975. Measurements continued to March 1976. Water-quality records for 1959 available in files of district office.
PERIOD OF RECORD.--March 1959 to March 1976 (well destroyed).
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.53 ft (1.69 m) below land surface Mar. 25, 1973; lowest, 25.18 ft (7.67 m) below land surface, Aug. 5, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 25, 1976, 10.13 ft (3.09 m) below land surface.

LAFAYETTE COUNTY

330804093435501. Local number, 19S25W06ABD1.
LOCATION.--Lat 33°08'04", long 93°43'55", near Gin City.
Owner: Lee Calvin.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16-12 in (0.41-0.30 m), depth 63 ft (19 m), cased 0-43 ft (0-13 m), screened 43-63 ft (13-19 m).
DATUM.--Land surface, 212 ft (65 m) above mean sea level. Measuring point: Top end of discharge pipe, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--March 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.53 ft (1.38 m) below land surface, Apr. 1, 1959; lowest, 17.54 ft (5.35 m) below land surface, Jan. 24, 1957.
MEASUREMENT FOR CURRENT YEAR.--Apr. 8, 1976, 64.34 ft (19.61 m) below land surface.

332145093280402. Local number, 16S23W10DCA2.
LOCATION.--Lat 33°21'45", long 93°28'04", near Stamps.
Owner: Arkansas Power and Light Company.
AQUIFER.--Sand, Cane River Formation of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m) depth 355 ft (108 m).
DATUM.--Land surface, 298.5 ft (90.98 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--June 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.75 ft (11.20 m) below land surface, Mar. 31, 1953; lowest, 88.90 ft (27.10 m) below land surface, Oct. 1, 1963.
MEASUREMENT FOR CURRENT YEAR.--Apr. 8. 1976, 64.34 ft (19.61 m) below land surface.

344203090411601. Local number, 01N04E09DCC1.
LOCATION.--Lat 34°42'03", long 90°41'16", near Marianna.
Owner: U.S. Geological Survey.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6-3 in (0.15-0.08 m), depth 1,885 ft (575 m), cased 0-1,865 ft (0-568 m), screened 1,865-1,885 ft (568-575 m).
DATUM.--Land surface, 204 ft (62 m) above mean sea level. Measuring point: ¼-in (0.01-m) plug in pipe cap, 3.50 ft (1.07 m) above land surface.
REMARKS.--Water-quality records for 1964 available in files of district office.
PERIOD OF RECORD.--September 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.64 ft (2.94 m) below land surface, Apr. 10, 1967; lowest, 17.74 ft (5.41 m) below land surface, Mar. 16, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 16, 1976, 17.74 ft (5.41 m) below land surface.

344341090460001. Local number, 01N03E02BBC1.
LOCATION.--Lat 34°43'41", long 90°46'00", near Marianna.
Owner: University of Arkansas, Cotton Branch Experiment Station.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 24-12 in (0.61-0.30 m) depth 168 ft (51 m).
DATUM.--Land surface, 236.43 ft (72.06 m) above mean sea level. Measuring point: Small pipe in west side of pump base, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--March 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.16 ft (9.50 m) below land surface, Apr. 17, 1961; lowest, 49.67 ft (15.14 m) below land surface, Nov. 15, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 30, 1976, 36.94 ft (11.26 m) below land surface.

LITTLE RIVER COUNTY

333717094254501. Local number, 13S32W21CCB1.
LOCATION.--Lat 33°37'17", long 94°25'45", near Foreman.
Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1¼ in (0.03 m), depth 49 ft (15 m), cased 0-46 ft (0-14 m), screened 46-49 ft (14-15 m).
DATUM.--Land surface, 310 ft (94 m) above mean sea level. Measuring point: Top of casing, 3.00 ft (0.91 m) above land surface.
PERIOD OF RECORD.--April 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.65 ft (0.50 m) below land surface, Apr. 18, 1973; lowest, 6.25 ft (1.91 m) below land surface, Mar. 24, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1976, 6.25 ft (1.91 m) below land surface.

333951094071501. Local number, 13S29W05ABC1.
LOCATION.--Lat 33°39'51", long 94°07'15", near Ashdown.
Owner: Diggs and Hagan.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-8 in (0.46-0.20 m), depth 98 ft (30 m), cased 0-58 ft (0-18 m), screened 58-98 ft (18-30 m).
DATUM.--Land surface, 328 ft (100 m) above mean sea level. Measuring point: End of discharge pipe, 6.50 ft (1.98 m) above land surface.
PERIOD OF RECORD.--March 1957 to March 1968, April 1971 to April 1973, March 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.55 ft (0.17 m) below land surface, Dec. 2, 1958; lowest 48.16 ft (14.68 m) below land surface, Mar. 24, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1976, 48.16 ft (14.68 m) below land surface.

LONOKE COUNTY

344607091543401. Local number, 02N08W30CAB1.
LOCATION.--Lat 34°46'07", long 91°54'34", at Joe Hogan State Fish Hatchery near Lonoke.
Owner: State Game and Fish Commission.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 18 in (0.46 m), depth 135 ft (41 m).
DATUM.--Land surface, 245 ft (75 m) above mean sea level. Measuring point: Top of casing at land surface.
PERIOD OF RECORD.--September 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 84.65 ft (25.80 m) below land surface, Mar. 24, 1969; lowest, 102.39 ft (31.21 m) below land surface, Aug. 30, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	98.74	98.00	97.43	97.30	96.82	96.85	97.33	---	99.22	99.74	100.80	101.26
10	98.92	98.00	97.33	97.27	97.05	96.66	97.22	---	98.70	100.40	101.12	101.39
15	98.70	98.43	97.32	97.13	97.03	97.57	97.07	---	98.97	100.76	101.18	101.42
20	98.62	97.87	97.19	97.34	97.22	96.72	97.07	97.95	99.16	96.79	101.90	100.73
25	98.68	97.77	96.57	96.57	96.96	97.17	97.40	98.34	99.16	100.73	---	100.45
EOM	98.23	97.72	96.76	96.64	96.44	97.62	---	98.57	99.12	100.66	102.03	100.30

WTR YEAR 1976 MAX 96.26 MAY 8, 1976 MIN 102.39 AUG. 30, 1976

344955091565301. Local number, 02N09W02BCB1.
LOCATION.--Lat 34°49'55", long 91°56'53", near Lonoke.
Owner: Joe Bob Gotcher.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 24 in (0.61 m), depth 128 ft (39 m).
DATUM.--Land surface, 255 ft (78 m) above mean sea level. Measuring point: Hole in plate over well at land surface.
PERIOD OF RECORD.--March 1937, March 1944, March 1947, March 1951, March 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.72 ft (14.54 m) below land surface, Mar. 28, 1937; lowest, 90.74 ft (27.66 m) below land surface, Aug. 30, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Water level	Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct.	-----	Dec. 2	86.96	Jan. 27	86.50	Mar. 30	85.00	June 1	88.65
Nov.	-----	Dec. 31	86.13	Feb. 26	85.90	Apr. 29	89.40	July 30	92.53
								Aug. 30	92.82

MILLER COUNTY

332441093461401. Local number, 15S26W34AAA1.
LOCATION.--Lat 33°24'41", long 93°46'14", near Garland on U.S. Highway No. 82.
Owner: Harold E. Beck.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in (0.25 m), depth 41 ft (12 m).
DATUM.--Land surface, 230 ft (70 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--November 1960, April 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft (0.08 m) below land surface, August 21, 1970; lowest, 13.98 ft (4.26 m) below land surface, April 14, 1972.
MEASUREMENT FOR CURRENT YEAR.--Apr. 8, 1976, 6.17 ft (1.88 m) below land surface.

MISSISSIPPI COUNTY

353213090072701. Local number, 11N09E34BBB1.
LOCATION.--Lat 35°32'13", long 90°07'27", near Bassett.
Owner: Crain Company.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 m) depth 94 ft (29 m), cased 0-84 ft (0-26 m), screened 84-94 ft (26-29 m).
DATUM.--Land surface, 234 ft (71 m) above mean sea level. Measuring point: Top of casing, north side, 0.50 ft (0.15 m) above land surface.
PERIOD OF RECORD.--May 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.48 ft (1.98 m) below land surface, May 14, 1958; lowest, 13.66 ft (4.16 m) below land surface, Nov. 17, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 18, 1976, 10.27 ft (3.13 m) below land surface.

355024090034601. Local number, 14N10E18ABC1.
LOCATION.--Lat 35°50'24", long 90°03'46", near Dell.
Owner: R. A. Greenway.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in (0.4 m), depth 101 ft (31 m), cased 0-51 ft (0-16 m), screened 51-101 ft (16-31 m).
DATUM.--Land surface, 236 ft (72 m) above mean sea level. Measuring point: Top of casing, 0.40 ft (0.12 m) above land surface.
REMARKS.--Water-quality records for 1956 and 1957 available in files of district office.
PERIOD OF RECORD.--May 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.90 ft (1.49 m) below land surface, Dec. 11, 1957; lowest, 15.86 ft (4.83 m) below land surface, Nov. 18, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 19, 1976, 10.65 ft (3.25 m) below land surface.

355607090152601. Local number, 15N08E08DBC1.
LOCATION.--Lat 35°56'07", long 90°15'26", at Leachville.
Owner: City of Leachville.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply unused artesian well, diameter 10-6 in (0.25-0.15 m), depth 1,083 ft (330 m), cased 0-1,000 ft (0-305 m), screened 1,000-1,083 ft (305-330 m).
DATUM.--Land surface, 236 ft (72 m) above mean sea level. Measuring point: Top of outer casing, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records for 1956 in filed of district office.
PERIOD OF RECORD.--November 1958, March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft (0.88 m) below land surface, Nov. 5, 1958; lowest, 10.18 ft (3.10 m) below land surface, June 10, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 23, 1976, 7.72 ft (2.35 m) below land surface.

MONROE COUNTY

344135091165101. Local number, 01N03W24BBB1.
LOCATION.--Lat 34°41'35", long 91°16'51", near Clarendon.
Owner: B. B. Bateman.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 14-6 in (0.36-0.15 m), depth 108 ft (33 m).
DATUM.--Land surface, 185 ft (56 m) above mean sea level. Measuring point: Cut out in casing north side, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--January 1957, February 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.40 ft (5.30 m) below land surface, Apr. 16, 1962; lowest, 24.60 ft (7.50 m) below land surface, Nov. 16, 1965.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1976, 20.61 ft (6.28 m) below land surface.

334757093231501. Local number, 11S22W08DAC1.
LOCATION.--Lat 33°47'57", long 93°23'15", at Prescott (city well no. 1).
Owner: City of Prescott.
AQUIFER.--Sand, Tokio Formation of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 11-6 in (0.28-0.15 m), depth 1,052 ft (321 m), cased 0-1,002 ft (0-305 m), screened 1,002-1,052 ft (305-321 m).
DATUM.--Land surface, 305 ft (93 m) above mean sea level. Measuring point: 2-in (0.05-m) plug in concrete base, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--February 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.05 ft (28.67 m) below land surface, Mar. 23, 1972; lowest, 128.26 ft (39.09 m) below land surface, Mar. 23, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 23, 1976, 128.26 ft (39.09 m) below land surface.

334759093231301. Local number, 11S22W08DAC2.
LOCATION.--Lat 33°47'59", long 93°23'13", at Prescott (city well no. 4).
Owner: City of Prescott.
AQUIFER.--Nacatoch Sand of Cretaceous age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-12 in (0.41-0.30 m), depth 232 ft (71 m), cased 0-172 ft (0-52 m), screened 172-232 ft (52-71 m).
DATUM.--Land surface, 306 ft (93 m) above mean sea level. Measuring point: 1-in (0.03-m) pipe on northeast side of concrete base, 1.70 ft (0.52 m) above land surface.
PERIOD OF RECORD.--May 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126.79 ft (38.65 m) below land surface, Apr. 1, 1975; lowest, 138.42 ft (42.19 m) below land surface, Apr. 9, 1974.
MEASUREMENT FOR CURRENT YEAR.--Mar. 23, 1976, 128.70 ft (39.23 m) below land surface.

OUACHITA COUNTY

334018092594801. Local number, 12S18W19CDC1.
LOCATION.--Lat 33°40'18", long 92°59'48", near Bragg City.
Owner: U.S. Geological Survey.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 2 in (0.05 m), depth 120 ft (37 m), cased 0-117 ft (0-36 m), screened 117-120 ft (36-37 m).
DATUM.--Land surface, 235 ft (72 m) above mean sea level. Measuring point: Top of casing, 3.60 ft (1.10 m) above land surface.
REMARKS.--Water-quality records for 1957 and 1958 available in files of district office.
PERIOD OF RECORD.--November 1958 to March 1962, March 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.73 ft (13.02 m) below land surface, Apr. 9, 1973; lowest, 53.20 ft (16.22 m) below land surface, Oct. 1, 1970.
MEASUREMENT FOR CURRENT YEAR.--Apr. 2, 1976, 44.91 ft (13.69 m) below land surface.

334215092413201. Local number, 12S16W12ADB1.
LOCATION.--Lat 33°42'15", long 92°41'32', near Eagle Mills.
Owner: J. S. J. Lyle Estate.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.30 m), depth 300 ft (91 m).
DATUM.--Land surface, 159 ft (48 m) above mean sea level. Measuring point: Top of casing, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--October 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.48 ft (6.24 m) below land surface, May 15, 1962; lowest, 30.27 ft (9.23 m) below land surface, Apr. 5, 1968.
MEASUREMENT FOR CURRENT YEAR.--Apr. 2, 1976, 22.82 ft (6.96 m) below land surface.

PHILLIPS COUNTY

341534090563001. Local number, 05S02E18BDA1.
LOCATION.--Lat 34°15'34", long 90°56'30", near Ratio.
Owner: Brooks Griffith.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12 in (0.30 m), depth 130 ft (40 m).
DATUM.--Land surface, 156 ft (48 m) above mean sea level. Measuring point: Hole in northeast side of pump, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.00 ft (2.44 m) below land surface, Apr. 17, 1961; lowest, 22.53 ft (6.87 m) below land surface, Nov. 16, 1965.
MEASUREMENT FOR CURRENT YEAR.--Apr. 1, 1976, 15.67 ft (4.78 m) below land surface.

342856090363601. Local number, 02S05E29CCC1.
LOCATION.--Lat 34°28'56", long 90°36'36", near Helena.
Owner: Gardinier-Big River Inc.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 12 in (0.30 m), depth 308 ft (94 m), screened 278-308 ft (85-94 m).
DATUM.--Land surface, 179 ft (55 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records for 1970 and 1975 available in files of district office.
PERIOD OF RECORD.--February 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.40 ft (13.53 m) below land surface, May 17-19, 1973; lowest, 98.13 ft (29.91 m) below land surface, July 13, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	76.86	69.28			70.08	64.64	62.56	61.97	62.34	64.80	45.72
10	---	---	68.27			69.09	66.03	59.42	56.43	63.80	64.39	49.89
15	76.40	69.41	68.98			68.43	65.08	57.32	59.53	64.02	62.41	62.67
20	---	72.13	68.86			67.23	67.59	60.23	60.42	63.58	51.78	68.58
25	---	68.49	67.59			52.35	65.84	61.13	60.71	64.01	53.01	71.28
EOM	71.03	71.76	68.26			63.69	66.54	61.36	62.32	64.89	47.72	71.16

WTR YEAR 1976 MAX 42.39 AUG. 29, 1976 MIN 79.13 OCT. 12, 1975

PHILLIPS COUNTY

343108090462601. Local number, 02S03E15ACD1.
LOCATION.--Lat 34°31'08", long 90°46'26", near Barton.
Owner: Don R. Dearing.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in (0.46 m), depth 112 ft (34 m).
DATUM.--Land surface, 147 ft (45 m) above mean sea level. Measuring point: Top of casing, at land surface.
PERIOD OF RECORD.--March 1955, January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.61 ft (1.41 m) below land surface, Apr. 25, 1973; lowest, 16.26 ft (4.96 m) below land surface, Aug. 31, 1972.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.15	14.30	13.17	12.29		10.80	10.45	12.09	12.41	13.34	15.24	16.32
10	14.26	13.80	12.93	12.11		8.59	10.68	12.13	12.81	13.70	15.52	16.21
15	14.37	13.71	13.03	12.21		9.02	11.40	12.31	13.16	14.00	15.76	16.22
20	14.45	13.70	12.92	12.52		9.89	11.69	12.44	12.12	14.34	15.97	16.23
25	14.53	13.79	12.85	12.35		10.53	11.65	12.48	12.19	14.64	16.18	16.24
EOM	14.52	13.58	12.42	---		10.10	11.84	11.63	12.59	14.97	16.37	16.26

WTR YEAR 1976 MAX 8.55 MAR. 10, 1976 MIN 16.40 SEPT. 1, 2, 1976

POINSETT COUNTY

352930090582501. Local number, 10N01E15DBB1.
LOCATION.--Lat 35°29'30", long 90°58'25", at Fisher.
Owner: City of Fisher.
AQUIFER.--Sand, Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 6 in (0.15 m), depth 302 ft (92 m), cased 0-260 ft (0-79 m), screened 260-302 ft (79-92 m).
DATUM.--Land surface, 232 ft (71 m) above mean sea level. Measuring point: Bottom of large opening south side of pump, 1.80 ft (0.55 m) above land surface.
PERIOD OF RECORD.--March 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.20 ft (15.00 m) below land surface, Apr. 8, 1968; lowest, 57.17 ft (17.43 m) below land surface, Mar. 11, 1976.
MEASUREMEMT FOR CURRENT YEAR.--Mar. 11, 1976, 57.17 ft (17.43 m) below land surface.

PRAIRIE COUNTY

343639091335201. Local number, 01S05W20ABB1.
LOCATION.--Lat 34°36'39", long 91"33'52", near Stuttgart.
Owner: Mike Prislovsky.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 m), depth 632 ft (193 m), cased 0-545 ft (0-166 m), screened 545-632 ft (166-193 m).
DATUM.--Land surface, 220 ft (67 m) above mean sea level. Measuring point: Hole in east side of pump, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records for 1961 available in files of district office.
PERIOD OF RECORD.--April 1937, April 1942, May 1947, October 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.43 ft (15.37 m) below land surface, Apr. 29, 1938; lowest, 117.72 ft (35.88 m) below land surface, Mar. 22, 1976.
MEASUREMENT FOR CURRENT YEAR.--Mar. 22, 1976, 117.72 ft (35.88 m) below land surface.

344644091382801. Local number, 02N06W21DAD1.
LOCATION.--Lat 34°46'44", long 91°38'28", near Carlisle.
Owner: E. O. Hansen, Estate.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 18-12 in (0.46-0.30 m), depth 314 ft (96 m), cased 0-254 ft (0-77 m), screened 254-314 ft (77-96 m).
DATUM.--Land surface, 235 ft (72 m) above mean sea level. Measuring point: Hole in east side of pump base, 2.00 ft (0.61 m) above land surface.
REMARKS.--Water-quality records for 1961, available in files of district office.
PERIOD OF RECORD.--July 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 83.88 ft (25.57 m) below land surface, Mar. 20, 1963; lowest, 114.67 ft (34.95 m) below land surface, May 22, 1967.
MEASUREMENT FOR CURRENT YEAR.--Mar. 19, 1976, 95.52 ft (29.11 m) below land surface.

345843091344601. Local number, 04N05W07CDC1.
LOCATION.--Lat 34°58'43", long 91°34'46", near Des Arc.
Owner: Fred Rodgers.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 18-12 in (0.46-0.30 m).
DATUM.--Land surface, 212 ft (65 m) above mean sea level. Measuring point: Hole in east side of pump base, 0.50 ft (0.15 m) above land surface.
PERIOD OF RECORD.--December 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.73 ft (14.55 m) below land surface, Apr. 2, 1968; lowest, 59.32 ft (18.08 m) below land surface, Sept. 26, 1961.
MEASUREMENT FOR CURRENT YEAR.--Mar. 23, 1976, 54.21 ft (16.52 m) below land surface.

345848090521903. Local number, 04N02E03DDD3.
LOCATION.--Lat 34°58'48", long 90°52'19", near Palestine at Hamilton Moses Plant (Plant well no. 3).
Owner: Arkansas Power and Light Co.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled industrial artesian well, diameter 16 in (0.41 m), depth 151 ft (46 m).
DATUM.--Land surface, 210 ft (64 m) above mean sea level. Measuring point: Hole in southwest side of pump base, 3.00 ft (0.91 m) above land surface.
REMARKS.--Water-quality records for 1961 available in files of district office.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.23 ft (7.69 m) below land surface, June 29, 1961; lowest, 30.51 ft (9.30 m) below land surface, Sept. 15, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 16, 1976, 28.37 ft (8.65 m) below land surface.

350029090265801. Local number, 05N06E34CAB1.
LOCATION.--Lat 35°00'29", long 90°26'58", near Greasy Corner.
Owner: C. D. Brown.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12-10 in (0.30-0.25 m), depth 110 ft (34 m).
DATUM.--Land Surface, 200 ft (61 m) above mean sea level. Measuring point: Hole in east side of pump base, 1.70 ft (0.52 m) above land surface.
REMARKS.--Water-quality records for 1961 available in files of district office.
PERIOD OF RECORD.--April 1955, February 1961, March 1962, July 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.64 ft (5.38 m) below land surface, Apr. 3, 1973; lowest, 26.13 ft (7.96 m) below land surface, Mar. 18, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 17, 1976, 19.35 ft (5.90 m) below land surface.

345848090521903. Local number, 04N02E03DDD3.
LOCATION.--Lat 34°58'48", long 90°52'19", near Palestine at Hamilton Moses Plant (Plant well no. 3).
Owner: Arkansas Power and Light Co.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled industrial artesian well, diameter 16 in (0.41 m), depth 151 ft (46 m).
DATUM. Land surface, 210 ft (64 m) above mean sea level. Measuring point: Hole in southwest side of pump base, 3.00 ft (0.91 m) above land surface.
REMARKS.--Water-quality records for 1961 available in files of district office.
PERIOD OF RECORD.--April 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.23 ft (7.69 m) below land surface, June 29, 1961; lowest, 30.51 ft (9.30 m) below land surface, Sept. 15, 1964.
MEASUREMENT FOR CURRENT YEAR.--Mar. 16, 1976, 28.37 ft (8.65 m) below land surface.

SEVIER COUNTY

335808094100101. Local number, 09S30W23BDD1.
LOCATION.--Lat 33°58'08", long 94°10'01", at Lockesburg.
Owner: City of Lockesburg.
AQUIFER.--Sand, Trinity Group of Cretaceous age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in (0.30 m), depth 197 ft (60 m).
DATUM.--Land surface, 440 ft (134 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--November 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.17 ft (4.32 m) below land surface, Apr. 17, 1968; lowest, 74.02 ft (22.56 m) below land surface, Apr. 10, 1974
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1976, 70.86 ft (21.60 m) below land surface.

UNION COUNTY

330107092432301. Local number, 19S16W35DDC1.
LOCATION.--Lat 33°01'07", long 92°43'23", at Junction City.
Owner: Junction City.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10-8 in (0.25-0.20 m), depth 601 ft (183 m), cased 0-546 ft (0-166 m), screened 546-601 ft (166-183 m).
DATUM.--Land surface, 175 ft (53 m) above mean sea level. Measuring point: Top of 2-in (0.05-m) pipe, south side of pump base, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--November 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 182.33 ft (55.57 m) below land surface, Nov. 11, 1967; lowest, 209.52 ft (63.86 m) below land surface, Apr. 1, 1976.
MEASUREMENT FOR CURRENT YEAR.--Apr. 1, 1976, 209.52 ft (63.86 m) below land surface.

330228092110101. Local number, 19S10W19CCB2.
LOCATION.--Lat 33°02'28", long 92°11'01", at Huttig.
Owner: City of Huttig.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in (0.20 m), depth 770 ft (235 m), cased 0-700 ft (0-213 m), screened 700-770 ft (213-235 m).
DATUM.--Land surface, 100 ft (30 m) above mean sea level. Measuring point: Top of casing north side, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records for 1946 available in files of district office.
PERIOD OF RECORD.--December 1964 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.35 ft (18.70 m) below land surface, May 10, 1966; lowest, 88.03 ft (26.83 m) below land surface, March 10, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 31, 1976, 83.57 ft (25.47 m) below land surface.

331358092424301. Local number, 17S16W24BAC1.
LOCATION.--Lat 33°13'58", long 92°42'43", at El Dorado (City well no. 17).
Owner: City of El Dorado
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 18-8 in (0.46-0.20 m), depth 615 ft (187 m), cased 0-493 ft (0-150 m), screened 493-615 ft (150-187 m).
DATUM.--Land surface, 220 ft (67 m) above mean sea level. Measuring point: Hole in east side of pump base, 2.00 ft (0.61 m) above land surface.
REMARKS.--Water-quality records for 1972 available in files of district office.
PERIOD OF RECORD.--April 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 339.29 ft (103.42 m) below land surface, Apr. 10, 1973; lowest, 366.10 ft (111.59 m) below land surface, Oct. 21, 1969.
MEASUREMENT FOR CURRENT YEAR.--Apr. 1, 1976, 349.57 ft (106.55 m) below land surface.

331438092411901. Local number, 17S15W18DBB1.
LOCATION.--Lat 33°14'38", long 92°41'19", near El Dorado (Company detector well no. 8A).
Owner: Monsanto Chemical Co.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in (0.20 m), depth 540 ft (165 m), cased 0-520 ft (0-158 m), screened 520-540 ft (158-165 m).
DATUM.--Land surface, 182.93 ft (55.76 m) above mean sea level. Measuring point: Top of casing, 2.00 ft (0.61 m) above land surface.
PERIOD OF RECORD.--July 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 269.70 ft (82.20 m) below land surface, Apr. 20, 1956; lowest, 357.51 ft (108.97 m) below land surface, July 30, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	329.09	327.35	324.34	321.48	320.18	324.50	323.58	322.42	322.26	323.89	327.33	335.12
10	328.76	328.04	324.34	321.60	320.59	324.51	324.09	321.58	322.28	323.70	329.77	334.58
15	329.40	327.79	324.00	322.19	321.05	324.44	323.94	321.35	323.22	323.42	331.81	332.92
20	328.70	326.80	324.81	321.95	320.72	324.51	323.50	321.85	324.00	324.18	333.40	332.04
25	328.69	325.31	323.31	321.13	321.55	324.00	322.65	322.43	324.03	324.98	334.58	332.11
EOM	328.21	324.64	322.00	320.89	322.24	323.85	322.48	322.08	324.64	326.03	335.02	331.42

WTR YEAR 1976 MAX 319.24 FEB. 2, 3, 1976 MIN 335.33 AUG. 29, 1976

330855092505601. Local number, 18S17W22BDD1.
LOCATION.--Lat 33°08'55", long 92°50'56", near Shuler.
Owner: H. G. McKennon.
AQUIFER.--Sparta Sand of Eocene age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in (0.25 m), depth 705 ft (215 m), cased 0-605 ft (0-184 m), screened 605-705 ft (184-215 m).
DATUM.--Land surface, 280 ft (85 m) above mean sea level. Measuring point: Top of casing, 1.20 ft (0.37 m) above land surface.
REMARKS.--Unpublished water-level records available for 1968 to 1976 in files of district office.
PERIOD OF RECORD.--April 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 315.37 ft (96.12 m) below land surface, Apr. 3, 1968; lowest, 331.65 ft (101.01 m) below land surface, Oct. 17, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	329.00	---	329.13	328.72	328.55	328.74	328.94	329.30	329.50	329.54	329.96	330.76
10	329.09	328.92	329.12	328.60	328.52	328.64	329.09	329.35	329.54	329.62	330.10	331.02
15	329.15	329.05	329.12	328.57	328.62	328.66	329.07	329.26	329.58	329.68	330.16	330.99
20	329.29	329.06	328.96	328.62	328.52	328.75	329.04	329.45	329.53	329.75	330.33	330.97
25	329.33	329.16	328.65	328.33	328.73	328.82	329.15	329.47	329.54	329.76	330.45	331.09
EOM	329.39	329.15	328.78	328.45	328.67	328.91	329.24	329.31	329.54	329.85	330.63	331.27

WTR YEAR 1976 MAX 328.24 JAN. 25, 1976 MIN 331.29 SEPT. 30, 1976

WOODRUFF COUNTY

351657091203101. Local number, 08N03W31AAD1.
LOCATION.--Lat 35°16'57", long 91°20'31", near Augusta.
Owner: E. B. Conner.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in (0.36 m), depth 110 ft (34 m), cased 0-80 ft (0-24 m), screened 80-110 ft (24-34 m).
DATUM.--Land surface, 212 ft (65 m) above mean sea level. Measuring point: Hole in east side of casing, 1.00 ft (0.30 m) above land surface.
PERIOD OF RECORD.--January 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.07 ft (4.90 m) below land surface, Dec. 10, 1959; lowest, 22.94 ft (6.99 m) below land surface, Sept. 26, 1963.
MEASUREMENT FOR CURRENT YEAR.--Mar. 12, 1976, 17.41 ft (5.31 m) below land surface.

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August 6, 1976

FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
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)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	*hectares (ha)
	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)
	Volume	
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 (10^6 gal)	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 [(ft^3/s) · d]	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)
	Flow	
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 (mgal/d)	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

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Geological Survey
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Little Rock, AR 72201

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