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Water Resources Data for Arkansas

Water Year 1977

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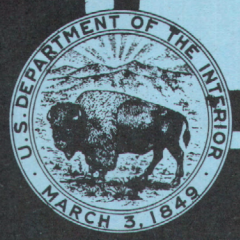

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AR-77-1

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

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

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Water Resources Data for Arkansas Water Year 1977



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

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

H. William Menard, 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

1978

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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15. Supplementary Notes

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16. Abstracts

Water resources data for the 1977 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 and water quality of wells. This report contains discharge records for 70 gaging stations; stage only records for 1 gaging station; stage and contents for 13 lakes and reservoirs; water quality for 136 stations 69 partial-record flow stations, and 7 lakes; and water levels for 82 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

*Arkansas, *Hydrologic data, *Surface water, *Ground water, *Water quality, flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

17b. Identifiers/Open-Ended Terms

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WATER RESOURCES DATA FOR ARKANSAS, 1977

INTRODUCTION

Water resources data for the 1977 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 13 lakes and reservoirs; water quality for 136 gaging stations, 69 partial-record stations, and 7 lakes; and water levels for 82 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 was 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-77-1." 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, Jarrell E. Southall, 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 were 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 1977 water year. Slightly deficient rainfall over most of the State resulted in below-average runoff during the year. However, heavy rains, up to 7½ inches in less than 36 hours, caused local severe flooding in north-central and northeastern Arkansas during the period March 27-28. A new maximum for the period of record at the gaging station at Spring River at Imvoden in northeast Arkansas was established on March 28. The peak discharge at Imboden had a recurrence interval of 25 years.

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 about 1 foot in the Quaternary deposits.

Water levels in the Sparta Sand of Tertiary age declined about 3 feet in the Grand Prairie, owing to withdrawals for rice irrigation, and about the same amount in the El Dorado, Magnolia, and Pine Bluff areas. 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 multicelled 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 nonchlorophyllous-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 indicate a tendency toward a heterotrophic system.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which are 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 saltwater.

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 concentration 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 concentration 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 upstream from 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 includes 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 an atomic weight of 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 more than 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 by milligrams per liter by 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 that can be used for irrigation on almost all soils to those that 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 concentration 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 multiplate 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 (drangonflies, 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

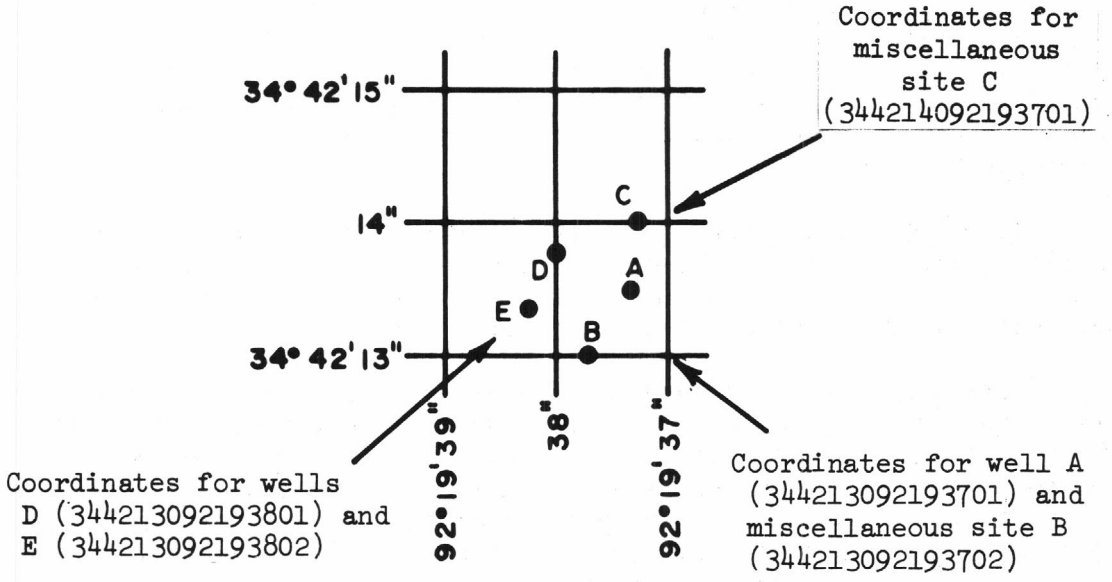
that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is 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 discharge 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 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 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. 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 capactiy 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 than 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-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 adequately define 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

The ground-water-level and quality data in this report comprise information for a basic network of observation wells. The water-level measurements are intended to provide a sample and historical record of water-level fluctuations in the State's most important aquifers.

Data are included for 84 wells in Arkansas (fig. 5). Water-level records are tabulated for 82 wells, and water-quality data are tabulated for 10 wells. The wells selected are located so as to provide areal coverage of data-collection points for the most important aquifers. Water-level records for past years, not previously published, are also included.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See diagram on page 17.

Measurements are made in many types of wells and under varying conditions of access; hence, the method of measurement is tailored to the needs of a particular site. However, the equipment and techniques used are those that will insure 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 the altitude of the land surface, with respect to mean sea level, at each well. If known, the altitude of the 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). International System equivalents follow the English System numerical values in the well description.

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 depth to water may be a few tenths 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 to the nearest foot.

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.

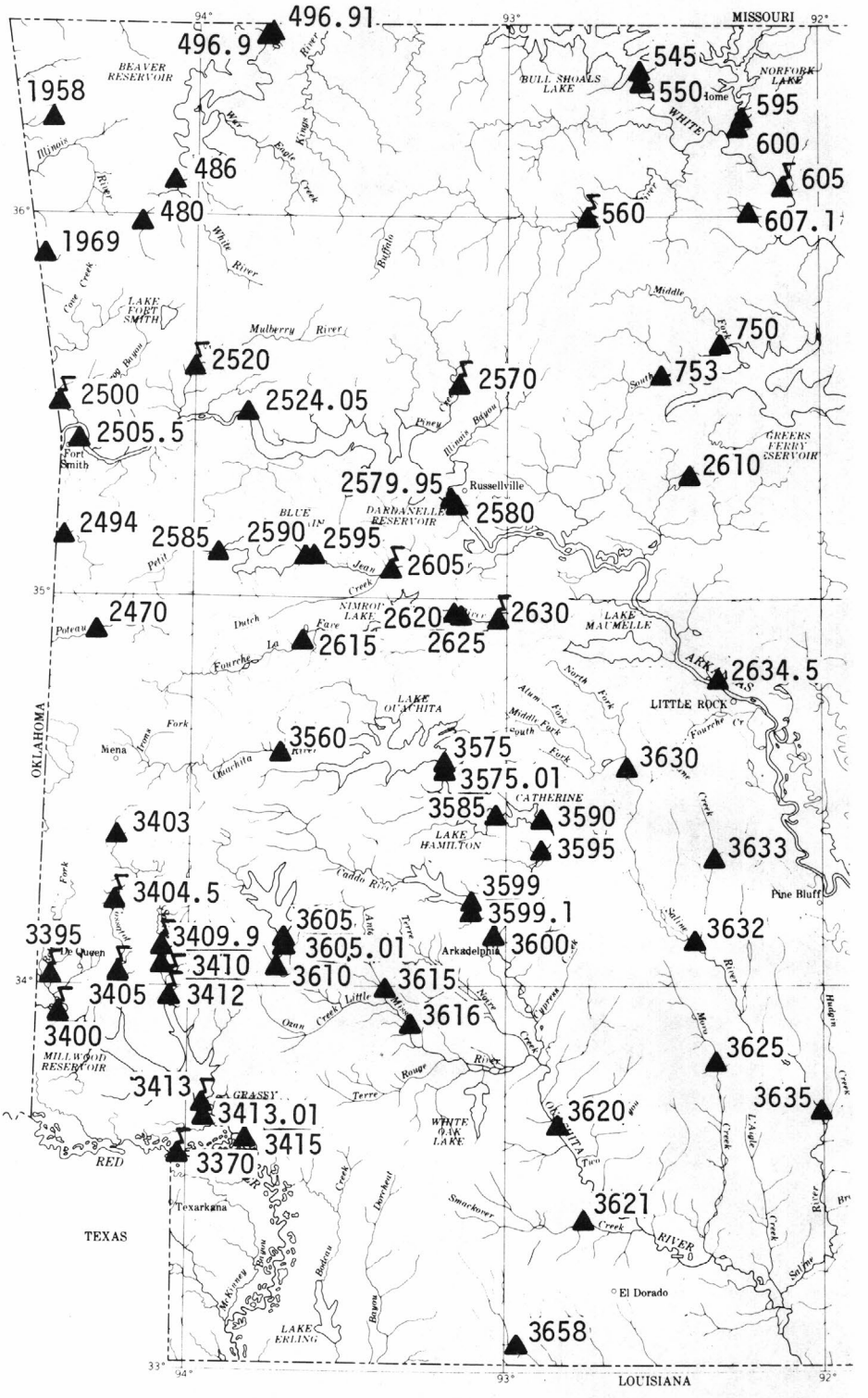


Figure 1.--Locations of continuous-record gaging stations in western Arkansas.

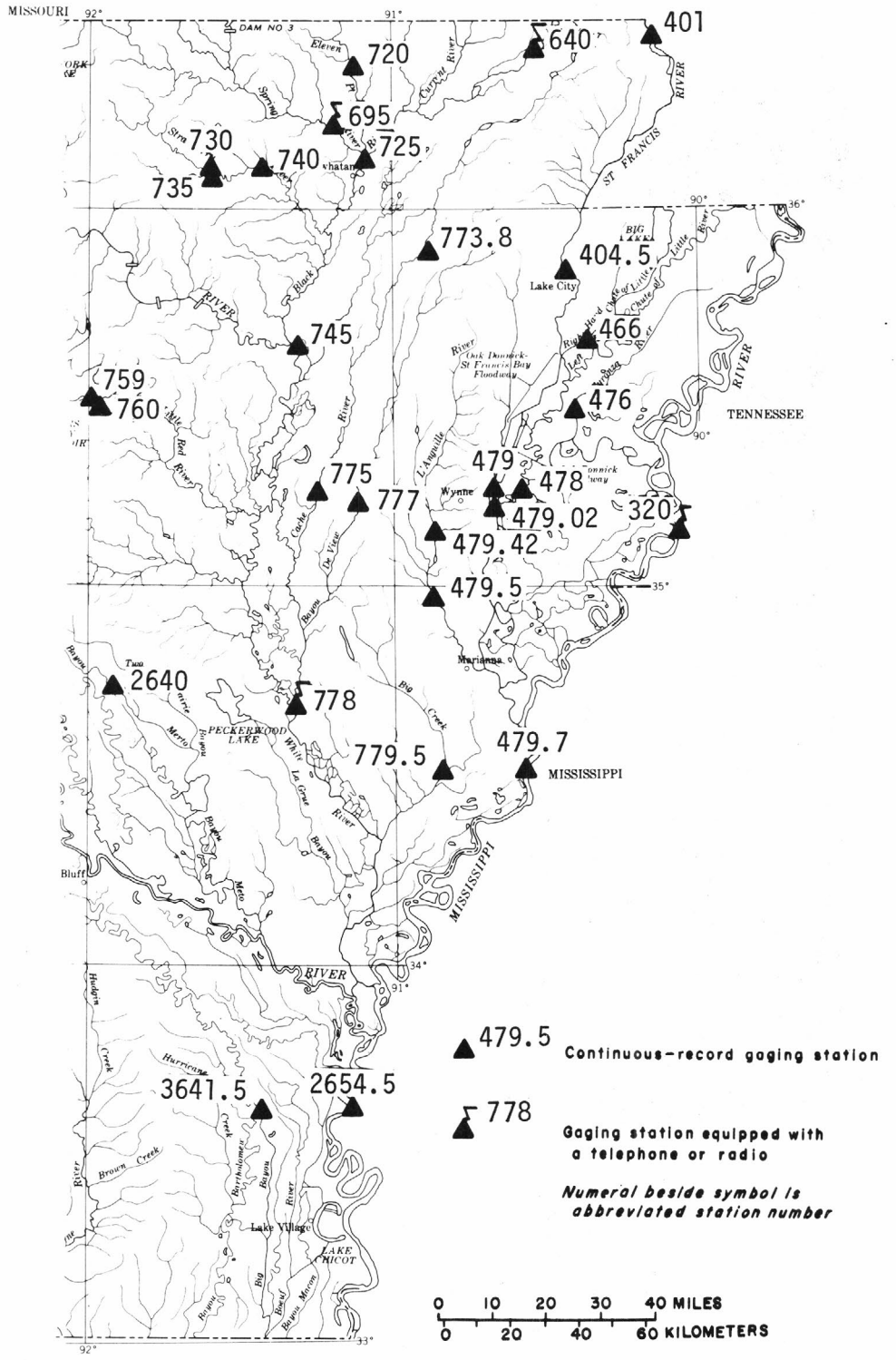


Figure 2.--Locations of continuous-record gaging stations in eastern Arkansas.

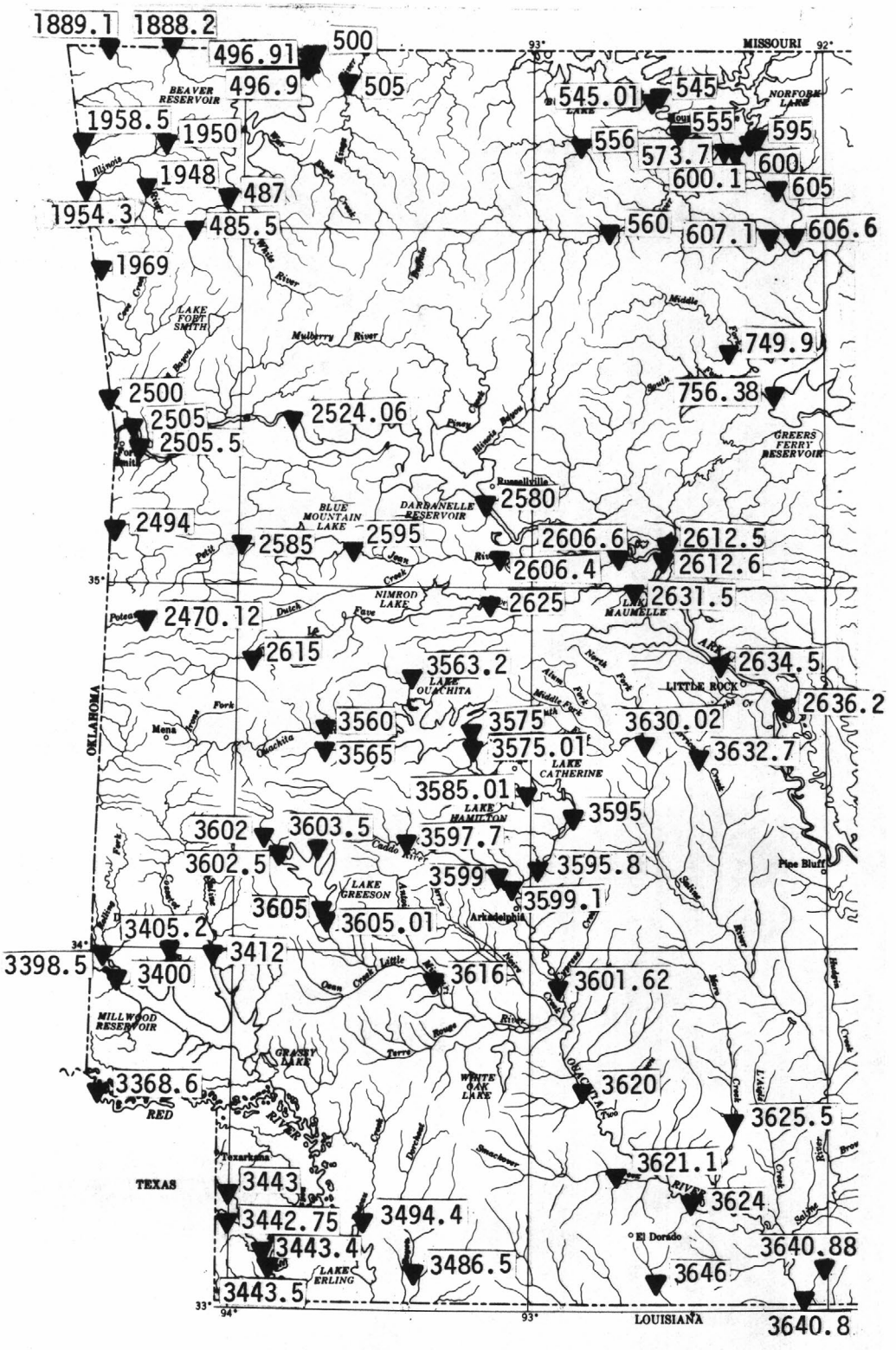


Figure 3.--Locations of water-quality stations in western Arkansas.

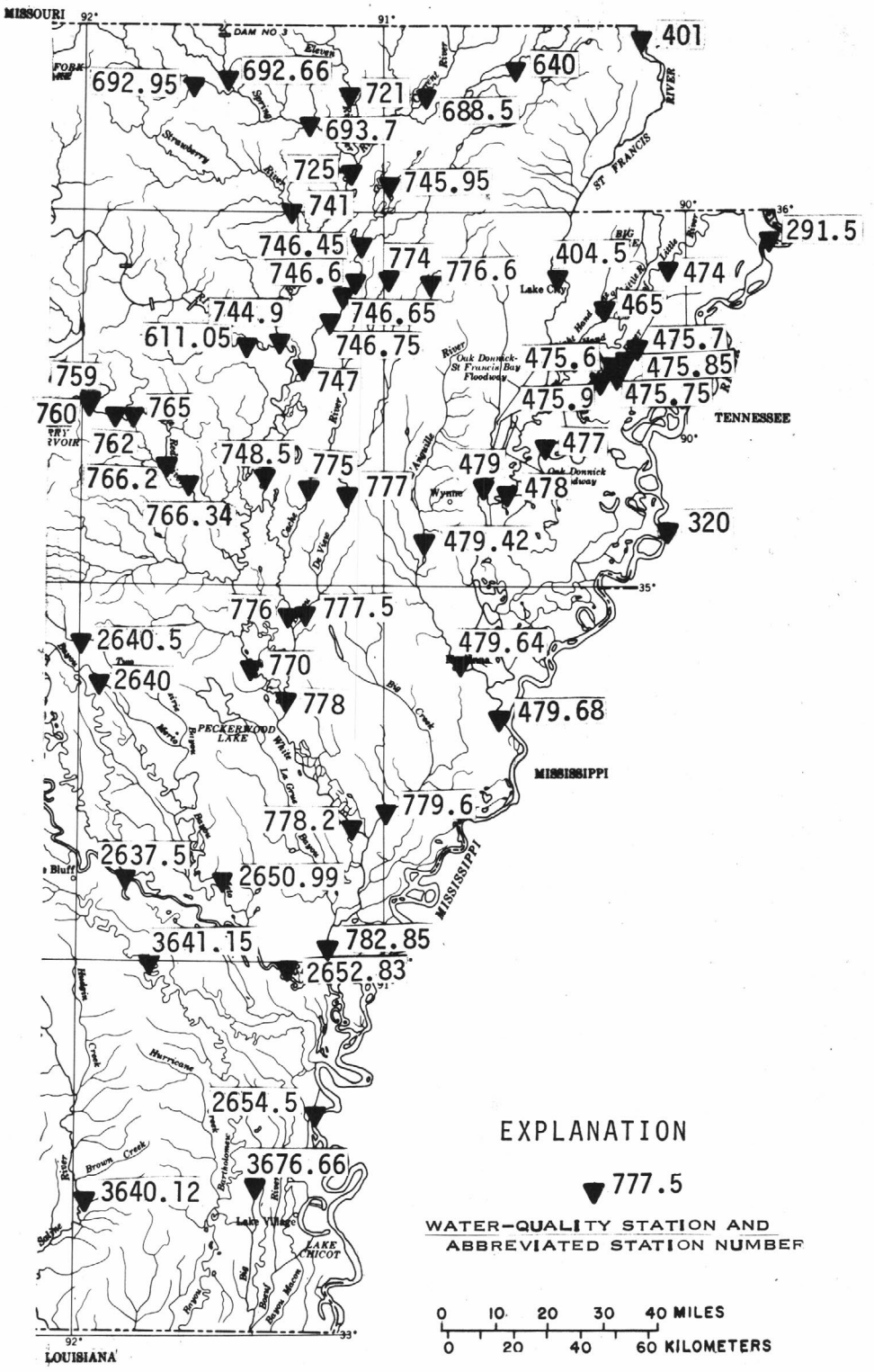


Figure 4.--Locations of water-quality stations in eastern Arkansas.

MISSISSIPPI RIVER MAIN STEM

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, Hydrologic Unit 08010100, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
13...	9827	9827	456	8.2	19.0	5	9.1	2.3	10700	--	--
NOV											
17...	9827	9827	406	8.0	9.0	5	10.7	2.7	7500	--	--
DEC											
08...	9827	9827	424	7.9	3.0	0	13.1	3.8	3000	--	160
JAN											
17...	9827	9827	--	--	--	--	--	--	430	5	--
25...	9827	9827	336	7.9	.0	5	13.3	3.3	350	14	--
MAR											
08...	9827	9827	353	7.8	8.0	20	11.2	5.7	--	--	82
APR											
12...	9827	9827	306	7.9	18.0	45	9.0	3.2	--	--	--
MAY											
24...	9827	9827	--	--	--	--	--	--	9900	--	--
24...	9827	9827	383	7.9	24.0	40	6.3	3.2	--	--	--
JUN											
13...	9827	9827	383	8.1	27.0	15	7.7	2.3	--	--	--
28...	9827	9827	440	8.0	27.0	30	--	--	3900	330	--
JUL											
11...	9827	9827	362	8.1	29.0	--	7.0	--	7400	--	--
AUG											
01...	9827	9827	431	8.2	28.0	10	8.3	2.2	2700	--	--
SEP											
19...	9827	9827	380	7.9	25.0	20	7.3	1.5	158000	--	98

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	110
NOV											
17...	--	--	--	--	--	--	--	--	--	--	83
DEC											
08...	53	--	42	--	14	30	3.2	130	0	107	69
JAN											
17...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	53
MAR											
08...	11	--	17	--	9.5	19	4.3	87	0	71	51
APR											
12...	--	27	--	9.4	--	13	4.7	--	--	--	44
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	65
JUN											
13...	--	--	--	--	--	--	--	--	--	--	56
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	55
AUG											
01...	--	--	--	--	--	--	--	--	--	--	81
SEP											
19...	--	15	--	11	--	18	5.5	--	--	--	60

07029150 MISSISSIPPI RIVER AT BARFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	28	296	66	.70	--	--	.21	--	--	--	<10	2300
NOV												
17...	18	250	48	.97	--	--	.10	--	--	--	<10	1500
DEC												
08...	18	260	35	.66	--	--	.10	<3	20	<3	30	960
JAN												
25...	19	197	12	.52	--	--	.29	--	--	--	<10	630
MAR												
08...	24	272	200	1.1	--	--	.44	<3	<10	<3	<10	9300
APR												
12...	17	215	--	--	--	<.10	.46	<10	<10	--	--	--
MAY												
24...	19	274	168	2.6	.02	.11	.42	--	--	--	20	--
JUN												
13...	18	272	--	--	<.05	.08	--	--	--	--	10	--
28...	19	286	383	.80	.01	.09	--	--	--	--	<10	--
JUL												
11...	17	--	--	.75	.01	.30	--	--	--	--	<10	7900
AUG												
01...	25	268	29	.63	.01	.06	--	--	--	--	<10	780
SEP												
19...	18	--	262	1.0	<.05	--	.50	--	<10	20	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	170	--	30	.00	.00	.00	.00	.00	.00	.00	0
NOV												
17...	--	140	--	<10	--	--	--	--	--	--	--	--
DEC												
08...	<10	56	.7	70	--	--	--	--	--	--	--	--
JAN												
25...	--	80	--	<10	--	--	--	--	--	--	--	--
MAR												
08...	30	440	--	70	--	--	--	--	--	--	--	--
APR												
12...	10	300	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAY												
24...	--	970	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	330	--	40	.00	.00	.00	.00	.00	.00	.00	0
28...	--	--	--	10	--	--	--	--	--	--	--	--
JUL												
11...	--	300	--	20	.00	.00	.00	.00	.00	.00	.00	0
AUG												
01...	--	42	--	--	--	--	.00	--	.00	.00	.00	0
SEP												
19...	<10	450	--	30	--	--	--	--	--	--	--	--

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN

LOCATION.--Lat 35°07'37", long 90°04'25", Shelby County, Hydrologic Unit 08010100, 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 mi^2 (2,416,000 km^2), 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.--44 years, 467,700 ft^3/s (13,200 m^3/s), 338,800,000 acre-ft/yr (418 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980,000 ft^3/s (56,100 m^3/s) Feb. 8, 1937; maximum gage height, 48.69 ft (14.841 m) Feb. 10, 1937; minimum discharge, 79,200 ft^3/s (2,240 m^3/s) Aug. 26, 1936; minimum gage height, -5.70 ft (-1.737 m) Sept. 21, 1976.

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, 893,000 ft^3/s (25,300 m^3/s) Apr. 15, gage height, 24.70 ft (7.529 m); minimum daily, 142,000 ft^3/s (4,020 m^3/s) Feb. 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165000	307000	198000	220000	189000	378000	641000	407000	229000	363000	234000	287000
2	191000	320000	203000	221000	183000	456000	666000	414000	208000	384000	231000	265000
3	199000	334000	216000	201000	177000	539000	678000	409000	204000	399000	222000	251000
4	205000	345000	221000	196000	162000	641000	671000	405000	196000	403000	202000	245000
5	195000	351000	221000	196000	151000	657000	657000	403000	195000	389000	186000	248000
6	192000	348000	219000	195000	142000	678000	634000	405000	187000	376000	176000	248000
7	197000	348000	220000	195000	144000	714000	635000	409000	184000	374000	174000	250000
8	199000	345000	214000	199000	150000	745000	668000	407000	184000	366000	169000	256000
9	192000	337000	210000	199000	153000	767000	727000	401000	187000	348000	161000	280000
10	182000	323000	208000	204000	147000	777000	780000	402000	188000	329000	152000	306000
11	178000	305000	218000	212000	142000	784000	827000	430000	188000	315000	154000	328000
12	167000	277000	247000	217000	146000	794000	861000	465000	190000	302000	172000	337000
13	174000	255000	272000	215000	148000	789000	879000	486000	190000	293000	212000	333000
14	190000	235000	299000	213000	148000	775000	888000	492000	187000	289000	262000	327000
15	218000	223000	264000	211000	154000	779000	893000	483000	190000	291000	310000	313000
16	238000	220000	342000	212000	170000	787000	890000	458000	205000	293000	332000	300000
17	280000	209000	344000	219000	197000	794000	874000	425000	221000	286000	350000	290000
18	337000	202000	331000	229000	235000	794000	845000	389000	220000	282000	366000	296000
19	361000	194000	313000	235000	274000	785000	796000	361000	201000	286000	388000	337000
20	359000	191000	301000	240000	293000	773000	719000	339000	187000	291000	409000	405000
21	332000	183000	287000	240000	311000	749000	613000	319000	171000	269000	422000	447000
22	284000	180000	278000	238000	318000	729000	515000	304000	174000	249000	420000	456000
23	247000	178000	263000	242000	298000	694000	444000	292000	183000	222000	401000	457000
24	227000	183000	249000	235000	287000	656000	397000	281000	195000	214000	376000	449000
25	219000	184000	242000	232000	280000	617000	362000	270000	200000	219000	352000	457000
26	220000	172000	234000	232000	272000	591000	354000	256000	200000	231000	323000	444000
27	224000	179000	229000	233000	280000	569000	370000	241000	223000	234000	295000	439000
28	239000	184000	222000	228000	314000	555000	389000	251000	260000	233000	281000	431000
29	266000	190000	214000	220000	---	534000	399000	251000	294000	233000	290000	421000
30	283000	200000	209000	211000	---	552000	403000	250000	330000	234000	297000	422000
31	292000	---	209000	205000	---	606000	---	243000	---	233000	292000	---
TOTAL	7252000	7502000	7697000	6745000	5865000	21058000	19475000	11348000	6171000	9230000	8611000	10325000
MEAN	233900	250100	248300	217600	209500	679300	649200	366100	205700	297700	277800	344200
MAX	361000	351000	344000	242000	318000	794000	893000	492000	330000	403000	422000	457000
MIN	165000	172000	198000	195000	142000	378000	354000	241000	171000	214000	152000	245000
AC-FT	14380000	14880000	15270000	13380000	11630000	41770000	38630000	22510000	12240000	18310000	17080000	20480000

CAL YR 1976 TOTAL 139854000 MEAN 382100 MAX 860000 MIN 138000 AC-FT 277400000
WTR YR 1977 TOTAL 121279000 MEAN 332300 MAX 893000 MIN 142000 AC-FT 240600000

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-3.60	4.00	-2.70	-1.00	-3.20	7.30	18.10	9.80	-.30	7.00	.60	3.20
2	-1.80	4.70	-2.30	-.90	-3.50	10.40	19.00	10.10	-1.60	8.20	.40	2.00
3	-1.20	5.50	-1.30	-2.10	-3.80	13.10	19.50	9.90	-1.80	9.00	-.20	1.20
4	-.80	6.10	-.90	-2.40	-4.80	15.70	19.50	9.70	-2.30	9.30	-1.50	.80
5	-1.50	6.40	-.80	-2.40	-5.50	16.40	19.10	9.60	-2.40	8.70	-2.70	1.00
6	-1.70	6.30	-.80	-2.50	-6.00	17.20	18.40	9.70	-2.90	8.10	-3.40	1.00
7	-1.40	6.30	-.90	-2.50	-5.80	18.40	18.40	9.90	-3.10	8.00	-3.60	1.10
8	-1.20	6.20	-1.50	-2.30	-5.30	19.40	19.30	9.80	-3.10	7.60	-4.00	1.50
9	-1.70	5.80	-1.90	-2.30	-5.00	20.20	20.80	9.50	-2.90	6.70	-4.60	3.00
10	-2.40	5.10	-2.20	-2.00	-5.40	20.70	22.10	9.60	-2.80	5.70	-5.20	4.50
11	-2.70	4.10	-1.70	-1.50	-5.60	21.10	23.20	11.00	-2.80	5.00	-5.10	5.70
12	-3.50	2.60	.00	-1.20	-5.30	21.60	24.00	12.60	-2.70	4.30	-3.90	6.30
13	-3.00	1.40	1.30	-1.30	-5.10	21.70	24.40	13.50	-2.70	3.80	-1.30	6.10
14	-1.90	.30	2.90	-1.40	-5.00	21.60	24.60	13.80	-2.90	3.60	1.70	5.70
15	-.10	-.40	4.30	-1.60	-4.50	21.80	24.70	13.50	-2.70	3.70	4.30	5.00
16	1.10	-.70	5.40	-1.50	-3.40	22.10	24.60	12.50	-1.70	3.80	5.60	4.30
17	3.50	-1.10	5.60	-1.10	-1.70	22.40	24.20	11.10	-.70	3.40	6.60	3.70
18	6.10	-1.50	5.00	-.50	.70	22.50	23.50	9.40	-.80	3.20	7.50	4.00
19	7.80	-1.90	4.10	-.10	2.90	22.40	22.30	7.80	-2.00	3.40	8.70	6.20
20	7.60	-2.00	3.50	.10	3.90	22.20	20.40	6.40	-2.90	3.70	9.80	9.50
21	6.10	-2.50	2.80	.10	4.80	21.70	17.50	5.10	-4.00	2.60	10.50	11.40
22	3.40	-2.60	2.30	.00	5.10	21.10	14.40	4.00	-3.80	1.50	10.50	11.80
23	1.20	-2.60	1.50	.10	4.00	20.10	11.50	3.10	-3.20	.00	9.70	11.80
24	-.10	-2.50	.70	-.20	3.30	19.00	9.30	2.50	-2.40	-.40	8.60	11.40
25	-.70	-2.60	.30	-.40	2.90	17.80	7.60	1.90	-2.20	.00	7.50	11.70
26	-.70	-3.60	-.20	-.40	2.40	16.90	7.20	1.10	-2.40	.70	6.10	11.10
27	-.50	-3.30	-.50	-.40	2.80	16.10	8.00	.30	-1.10	.80	4.40	10.80
28	.30	-3.10	-.90	-.70	4.60	15.60	8.90	.90	1.20	.70	3.40	10.40
29	1.90	-2.90	-1.40	-1.20	---	14.80	9.40	.90	3.20	.70	3.70	9.90
30	2.80	-2.40	-1.70	-1.80	---	15.30	9.60	.90	5.20	.70	3.80	9.90
31	3.20	---	-1.40	-2.20	---	16.90	---	.50	---	.60	3.50	---

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, 571 micromhos July 30, 1977; minimum, 239 micromhos Mar. 15, 1975.
WATER TEMPERATURES: Maximum, 31.5°C July 24, 1977; minimum, 2.0°C Jan. 4, 12, 1974, Jan. 17, 18, 19, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 571 micromhos July 30; minimum, 292 micromhos Feb. 21, 25, 27, Mar. 1, 15.
WATER TEMPERATURES: Maximum, 31.5°C July 24; minimum 2.0°C Jan 17, 18, 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
OCT											
22...	1028	1028	430	7.6	15.5	--	--	900	B15	150	70
NOV											
16...	1028	1028	369	7.8	8.0	--	--	B120	--	140	39
DEC											
20...	1028	1028	385	7.3	6.0	--	--	800	64	140	45
JAN											
26...	1028	1028	332	7.4	2.0	--	--	--	440	120	38
FEB											
23...	1028	1028	450	7.8	6.0	--	--	B130	B48	150	48
MAR											
22...	1028	1028	275	7.2	10.0	7.0	76	B33	B32	100	33
APR											
20...	1028	1028	295	7.7	18.0	--	--	B78	B40	110	37
MAY											
17...	1028	1028	390	7.5	22.0	7.0	82	470	B40	140	52
JUN											
15...	1028	1028	403	7.8	25.0	6.6	81	1100	520	160	46
JUL											
13...	1028	1028	369	8.0	29.0	6.4	84	B400	B30	140	39
AUG											
09...	1028	1028	468	8.1	28.0	--	--	B170	<20	160	52
24...	1028	1028	419	7.8	27.5	6.2	79	550	B180	140	62
SEP											
22...	1028	1028	--	--	--	--	--	--	--	--	--
22...	1028	1028	335	7.8	22.5	6.2	73	2200	2000	130	28

DATE	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
22...	41	12	28	28	1.0	3.5	100	0	82	4.0	85
NOV											
16...	35	12	22	25	.8	3.1	119	0	98	3.0	64
DEC											
20...	36	11	22	26	.8	2.7	110	0	90	8.8	64
JAN											
26...	35	9.1	15	20	.6	2.1	106	0	87	6.8	45
FEB											
23...	40	12	24	25	.9	3.1	124	0	102	3.1	67
MAR											
22...	29	7.4	10	17	.4	2.5	85	0	70	8.6	41
APR											
20...	29	8.5	11	18	.5	2.6	86	0	71	2.7	47
MAY											
17...	39	11	16	19	.6	3.0	110	0	90	5.6	62
JUN											
15...	43	13	21	22	.7	4.0	140	0	110	3.6	64
JUL											
13...	37	11	18	22	.7	3.4	120	0	98	1.9	57
AUG											
09...	42	13	25	25	.9	3.6	130	0	110	1.7	82
24...	39	11	22	25	.8	3.6	98	0	80	2.5	71
SEP											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	35	9.4	15	20	.6	4.2	120	0	98	3.0	43

B PLATE COUNT OUTSIDE IDEAL RANGE.

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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											
22...	27	.3	4.0	259	250	.35	1.4	.66	2.1	9.1	.28
NOV											
16...	18	.2	5.3	215	218	.29	.82	.46	1.3	5.7	.16
DEC											
20...	20	.2	4.6	244	215	.33	.78	.88	1.7	7.3	.19
JAN											
26...	15	.2	4.0	195	178	.27	.56	.67	1.2	5.4	.09
FEB											
23...	30	.1	4.7	254	242	.35	.82	1.2	2.0	8.9	.25
MAR											
22...	13	.2	5.2	168	150	.23	1.2	.93	2.1	9.4	.30
APR											
20...	12	.1	5.3	178	158	.24	1.1	.56	1.7	7.3	.07
MAY											
17...	18	.2	5.2	214	209	.29	1.5	1.0	2.5	11	.20
JUN											
15...	15	.4	5.4	242	235	.33	.95	.89	1.8	8.1	.33
JUL											
13...	12	.3	4.0	204	202	.28	.90	.63	1.5	6.8	.22
AUG											
09...	22	.3	1.7	269	254	.37	.38	.88	1.3	5.6	.16
24...	22	.3	3.8	232	221	.32	1.3	.77	2.1	9.2	.24
SEP											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	10	.2	5.9	193	182	.26	1.1	1.8	2.9	13	.55

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)
OCT										
22...	2	0	2	<10	<10	0	10	10	0	<50
NOV										
16...	--	--	--	--	--	--	--	--	--	--
DEC										
20...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	2	1	1	<10	<10	0	0	0	0	<50
FEB										
23...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	0	<10	--	1	<10	--	0	<50
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	1	10	9	1	0	--	0	<50
AUG										
09...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT												
22...	<49	1	60	51	9	5500	20	<100	<99	1	410	410
JAN												
26...	<50	0	70	62	8	930	30	<100	<98	2	70	40
APR												
20...	--	1	40	--	5	5100	30	<100	--	0	310	300
JUL												
13...	<50	0	70	59	11	4800	20	<100	<99	1	250	--
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
22...	--	--	--	--	--	--	--	--	--	--	--	--

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT											
22...	0	.0	.0	.0	1	0	1	70	60	10	6.4
JAN											
26...	30	.2	.0	.2	0	0	0	40	20	20	2.6
APR											
20...	10	--	--	.0	1	--	0	60	50	10	6.3
JUL											
13...	40	--	--	.1	1	1	0	50	50	4	6.7
AUG											
09...	--	--	--	--	--	--	--	--	--	--	5.8
24...	--	--	--	--	--	--	--	--	--	--	6.6
SEP											
22...	--	--	--	--	--	--	--	--	--	--	14

DATE	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)
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC										
20...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
23...	ND	--	ND	--	ND	--	ND	--	ND	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
17...	ND	ND	2.8	ND	ND	0	ND	ND	ND	ND
JUN										
15...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--

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)
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC										
20...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
23...	ND	--	ND	--	ND	--	ND	--	ND	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
15...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL HEPTA-CHLOR (UG/L) (39410)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	TOTAL MALA-THION (UG/L) (39530)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	TOTAL METH-OXY-CHLOR (UG/L) (39480)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG) (39481)
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC										
20...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
23...	ND	--	ND	--	ND	--	ND	--	ND	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
15...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL METHYL PARA-THION (UG/L) (39600)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG) (39601)	TOTAL METHYL TRI-THION (UG/L) (39790)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG) (39791)	TOTAL PARA-THION (UG/L) (39540)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	SIMA-ZINE TOTAL COUL-SON COND. (UG/L) (39025)	SIMA-ZINE IN BOTTOM MATERI-AL (UG/KG DRY SOLIDS) (39046)	TOTAL TOX-APHENE (UG/L) (39400)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC										
20...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
23...	ND	--	ND	--	ND	--	ND	--	ND	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
15...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL TRI-THION (UG/L) (39786)	TRI-THION 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)	SUS-PENDED SEDIMENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
22...	--	--	--	--	--	--	--	--	163	94
NOV										
16...	ND	ND	ND	ND	ND	ND	ND	ND	60	88
DEC										
20...	--	--	--	--	--	--	--	--	91	83
JAN										
26...	--	--	--	--	--	--	--	--	45	88
FEB										
23...	ND	--	ND	--	ND	--	ND	--	87	93
MAR										
22...	--	--	--	--	--	--	--	--	207	90
APR										
20...	--	--	--	--	--	--	--	--	159	98
MAY										
17...	ND	ND	ND	ND	ND	ND	ND	ND	191	98
JUN										
15...	--	--	--	--	--	--	--	--	277	98
JUL										
13...	--	--	--	--	--	--	--	--	180	99
AUG										
09...	--	--	--	--	--	--	--	--	79	97
24...	--	--	--	--	--	--	--	--	182	93
SEP										
22...	--	--	--	--	--	--	--	--	658	98

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	382	415	412	374	292	303	356	442	387	434	403
2	383	383	411	410	377	294	304	353	443	353	439	406
3	382	382	411	411	394	294	306	---	432	355	472	407
4	381	381	411	407	395	296	303	---	428	359	471	406
5	380	381	412	412	394	295	353	---	425	---	471	405
6	383	382	411	410	394	296	353	---	443	---	475	405
7	382	381	416	411	396	294	353	---	444	---	476	407
8	381	382	412	381	430	294	352	---	432	---	447	429
9	380	380	416	381	316	294	352	---	437	---	447	442
10	381	383	416	377	431	295	352	---	451	---	451	355
11	380	388	416	377	432	293	352	---	444	362	461	355
12	383	388	390	377	432	294	352	---	448	362	477	355
13	383	385	390	377	434	294	352	---	452	366	470	355
14	381	386	386	377	432	294	354	---	430	375	471	359
15	382	411	390	377	433	292	352	---	410	381	471	355
16	384	416	389	381	431	294	357	---	413	414	479	381
17	383	412	389	381	432	293	354	---	413	415	439	382
18	382	412	389	381	433	294	353	---	410	414	428	382
19	382	404	392	377	431	293	353	---	408	415	428	382
20	379	416	---	377	431	294	350	---	395	414	441	384
21	381	414	406	377	292	294	352	---	401	413	436	321
22	382	413	408	381	293	294	354	---	415	408	438	320
23	380	414	408	379	293	293	354	---	439	399	370	329
24	381	414	408	377	293	303	354	---	410	399	370	329
25	382	418	409	381	292	304	352	---	418	424	370	328
26	378	416	410	377	293	305	354	---	429	424	370	328
27	380	412	411	378	292	303	354	---	448	424	370	355
28	382	411	409	377	293	304	356	---	450	424	370	354
29	380	414	407	379	---	303	353	---	423	424	371	356
30	381	411	412	378	---	302	356	---	449	571	371	385
31	381	---	407	381	---	302	---	---	---	555	371	---
MEAN	381	399	405	386	377	296	347	---	429	409	431	372

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	20.0	---	5.0	5.0		15.0	25.0	27.0	28.0	29.0	29.0
2	15.0	20.0	15.0	5.0	5.0		16.0	25.0	26.0	28.0	29.0	28.0
3	15.0	21.0	15.0	5.0	3.0		16.0	---	26.5	29.0	27.5	28.5
4	17.0	21.0	15.0	5.0	3.0		14.0	---	27.5	28.0	28.5	28.0
5	20.0	21.0	15.0	5.0	3.0		25.0	---	29.0	---	28.0	28.0
6	15.0	23.0	10.0	5.0	3.0		24.0	---	26.5	---	29.0	29.5
7	16.0	23.0	10.0	5.0	3.0		22.0	---	25.5	---	29.0	28.5
8	20.0	21.0	10.0	5.0	4.0		23.0	---	26.0	---	29.0	28.0
9	20.0	23.0	12.0	5.0	4.0		25.0	---	25.5	---	28.5	27.5
10	18.0	15.0	10.0	5.0	4.0		25.0	---	26.0	---	29.5	26.0
11	25.0	10.0	8.0	3.0	4.0		25.0	---	26.5	29.5	28.5	26.5
12	25.0	8.0	5.0	3.0	4.0		24.0	---	26.5	30.0	29.0	26.0
13	25.0	8.0	5.0	3.0	5.0		25.0	---	26.5	29.0	29.5	26.0
14	26.0	8.0	5.0	3.0	5.0		25.0	---	26.0	29.5	28.0	25.5
15	25.0	10.0	5.0	3.0	4.0		25.0	---	26.0	30.0	28.0	25.0
16	24.0	10.0	5.0	3.0	4.0		22.0	---	26.5	30.0	27.5	25.0
17	26.0	10.0	5.0	2.0	4.0		21.0	---	26.0	30.0	28.0	25.0
18	24.0	---	5.0	2.0	4.0		25.0	---	26.5	29.5	27.5	26.5
19	20.0	---	5.0	2.0	4.0		24.0	---	27.0	30.5	28.0	26.0
20	19.0	---	---	3.0	5.0		24.0	---	27.5	30.5	28.0	25.0
21	22.0	---	---	3.0	5.0		24.0	---	28.0	30.0	28.5	23.5
22	24.0	---	5.0	3.0	5.0		24.0	---	27.0	31.0	28.0	24.0
23	22.0	---	5.0	3.0	5.0		25.0	---	27.5	31.0	29.5	23.0
24	24.0	---	5.0	3.0	5.0		25.0	---	28.0	31.5	29.0	24.5
25	25.0	---	5.0	5.0	4.0		25.0	---	28.5	29.5	27.0	24.0
26	24.0	---	5.0	5.0	5.0		25.0	---	27.5	30.0	28.5	23.5
27	20.0	---	5.0	5.0	5.0		25.0	---	26.5	29.5	28.0	21.0
28	23.0	---	5.0	5.0	5.0		25.0	---	27.0	28.5	27.5	22.0
29	24.0	---	5.0	5.0	---		25.0	---	27.5	29.0	28.0	21.5
30	25.0	---	5.0	5.0	---		25.0	---	27.5	29.5	28.0	23.0
31	23.0	---	5.0	5.0	---		---	---	---	29.0	28.5	---
MEAN	21.5	16.0	7.5	4.0	4.5		23.0	---	27.0	29.5	28.5	25.5

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

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

PHYTOPLANKTON

DATE	OCT 22,76		NOV 16,76		DEC 20,76		JAN 26,77		FEB 23,77	
TIME	0930		1000		1400		1030		0845	
TOTAL CELLS/ML	12000		7400		4000		7100		6300	
DIVERSITY: DIVISION	1.4		1.4		1.4		0.4		0.6	
.CLASS	1.4		1.4		1.4		0.4		0.6	
..ORDER	1.7		2.2		1.4		0.9		1.2	
...FAMILY	2.2		2.4		1.5		1.0		1.2	
....GENUS	3.0		2.7		2.0		1.1		1.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	83	2	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	*	0	--	-	50	1	--	-
....MICRACTINIUM	--	-	--	-	62	2	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	100	1	230	4
....CHODATELLA	190	2	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	*	0	--	-	--	-	--	-	620	10
....NEPHROCYTIUM	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	190	2	260	4	--	-	--	-	--	-
....WESTELLA	760	7	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	760	7	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	2100#	18	260	4	170	4	--	-	--	-
....TETRASTRUM	2300#	20	130	2	--	-	--	-	--	-
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...TETRASPORACEAE										
....TETRASPORA	--	-	130	2	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	*	0	--	-	150	2	78	1
...VOLVOCACEAE										
....GONIUM	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	*	0	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	2600#	23	990	13	1600#	40	5900#	83	3900#	62
....MELOSIRA	--	-	1100#	15	~~560~~	~~14~~	~~50~~	~~1~~	~~620~~	~~10~~
....STEPHANODISCUS	--	-	--	-	21	1	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....CYMBELLA	--	-	*	0	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	*	0	--	-	--	-	--	-
....OPEPHORA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	700	10	580	9
....FRAGILARIA	190	2	490	7	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-	190	3
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....CALONEIS	--	-	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-
....NAVICULA	570	5	66	1	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....HANTZSCHIA	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	--	-	130	2	--	-	50	1	*	0
...SURIRELLACEAE										
....SURIRELLA	380	3	*	0	--	-	--	-	39	1

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

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

PHYTOPLANKTON

DATE / TIME	OCT 22,76 0930		NOV 16,76 1000		DEC 20,76 1400		JAN 26,77 1030		FEB 23,77 0845	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	590	8	--	-	--	-	--	-
....COCCOCHLORIS	--	-	*	0	--	-	--	-	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	1500	13	3100#	42	1500#	36	50	1	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	*	0	--	-	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	50	1	*	0
....PHACUS	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	83	2	50	1	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	--	-	*	0	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

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

PHYTOPLANKTON

DATE	MAY 17,77	JUN 15,77	JUL 13,77	AUG 24,77	SEP 22,77
TIME	1500	1100	0900	0930	0845
TOTAL CELLS/ML	3300	2900	4400	5900	2200
DIVERSITY: DIVISION	1.3	1.3	1.4	1.2	1.3
.CLASS	1.3	1.3	1.4	1.2	1.3
..ORDER	1.6	1.7	2.0	1.8	1.6
...FAMILY	2.1	2.5	2.2	2.5	1.7
....GENUS	2.9	3.1	2.7	2.8	2.1

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	*	0	--	-	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	310	11	--	-	200	3	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	190	6	66	2	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	51	1	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	28	1	25	1	*	0	*	0	29	1
....CHODATELLA	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	57	2	--	-	--	-	51	1	--	-
....NEPHROCYTIUM	--	-	--	-	220	5	--	-	--	-
....OOCYSTIS	--	-	74	3	54	1	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	57	2	66	2	--	-	76	1	100	5
....CRUCIGENIA	230	7	33	1	54	1	--	-	--	-
....SCENEDESMUS	510#	16	630#	22	270	6	230	4	29	1
....TETRASTRUM	57	2	--	-	--	-	--	-	--	-
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	17	1	--	-	--	-	--	-
...TETRASPORACEAE										
....TETRASPORA	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE										
....GONIUM	--	-	--	-	--	-	200	3	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	*	0	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	270	8	460#	16	650	15	380	6	150	7
....MELOSIRA	1400#	42	720#	25	1000#	24	370	6	850#	38
....STEPHANODISCUS	--	-	17	1	--	-	*	0	--	-
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	*	0	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	--	-	--	-	15	1
....EPITHEMIA	--	-	*	0	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	*	0	--	-	--	-	--	-	--	-
....OPEPHORA	--	-	17	1	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	43	1	170	6	430	10	--	-	--	-
....SYNEDRA	--	-	*	0	*	0	51	1	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	*	0	--	-	--	-	--	-	29	1
...NAVICULACEAE										
....CALONEIS	--	-	*	0	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	*	0	44	2
....NAVICULA	*	0	*	0	--	-	*	0	--	-
....PINNULARIA	--	-	*	0	--	-	--	-	--	-
...NITZSCHIACEAE										
....HANTZSCHIA	--	-	--	-	*	0	*	0	--	-
....NITZSCHIA	85	3	74	3	150	3	--	-	29	1
...SURIRELLACEAE										
....SURIRELLA	28	1	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

07032000 MISSISSIPPI RIVER AT MEMPHIS, TN--Continued

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

PHYTOPLANKTON

DATE TIME	MAY 17,77 1500		JUN 15,77 1100		JUL 13,77 0900		AUG 24,77 0930		SEP 22,77 0845	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	460	8	--	-
....ANACYSTIS	--	-	--	-	81	2	51	1	--	-
....COCCOCHLORIS	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	870	15	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	270	8	150	5	1400#	31	2700#	46	940#	42
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	63	1	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	*	0	*	0	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-	15	1
....TRACHELOMONAS	*	0	--	-	--	-	*	0	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (G/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A CHROMOGRAPHIC FLUOROM (MG/M^2)	CHLOROPHYLL B CHROMOGRAPHIC FLUOROM (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
SEP. 22	29	157	157	0	.053	.018	0.000	POLYETHYLENE STRIP

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, AR

LOCATION.--Lat 36°27'21", long 90°08'13", in sec.18, T.21 N., R.9 E., Clay County, Hydrologic Unit 08020203, at bridge on U.S. Highway 62 at St. Francis and at mile 229 (368 km).

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. January 1930 to December 1946 in files of Corps of Engineers, Memphis district. January 1946 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers. Gage-height records since 1916 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 270.57 ft (82.470 m) above mean sea level. Prior to Aug. 1, 1946, nonrecording gage.

REMARKS.--Some regulation by Wappapello Lake (Missouri), 80 mi (129 km) upstream, since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm^3).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--46 years, 2,137 ft^3/s (60.5 m^3/s), 1,548,000 acre-ft/yr (1,910 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,200 ft^3/s (1,110 m^3/s) Mar. 15, 1935, gage height, 28.2 ft (8.60 m); minimum, 55 ft^3/s (1.56 m^3/s) Sept. 20, 1954.
Maximum stage since at least 1916, that of Mar. 15, 1935.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 21,700 ft^3/s (615 m^3/s) Mar. 29, gage height, 23.98 ft (7.309 m); minimum daily, 263 ft^3/s (7.45 m^3/s) Aug. 11.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 8,190 ft^3/s (232 m^3/s) Feb. 18, gage height, 20.76 ft (6.328 m); minimum daily, 107 ft^3/s (3.03 m^3/s) Sept. 22-24.

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	659	426	2200	2090	1140	6660	11300	6490	1180	492	431	822
2	789	398	2150	2200	1890	6640	10200	6580	984	448	560	875
3	893	395	2100	3260	2320	6650	9640	6450	931	333	709	998
4	919	654	2060	4030	2680	6670	9250	6040	969	280	2520	1040
5	805	2200	2010	3520	3140	6630	9030	5500	997	264	2320	1240
6	589	2470	1980	3190	3450	6560	8810	5150	1500	418	1310	1060
7	427	2430	1860	3130	3500	6460	8580	5730	1140	2360	776	832
8	400	2120	1930	3130	3400	6250	8340	5550	954	2160	479	611
9	512	2150	1450	3150	3250	5720	8100	4980	891	1470	316	501
10	583	2410	1030	3740	3060	5320	7810	4630	1320	1060	266	494
11	454	2970	957	5400	2870	5600	7450	4480	2000	954	263	1780
12	349	3410	1230	5340	2570	6950	7050	4940	1580	1000	300	2980
13	303	3330	1500	5230	1790	7840	6730	5000	1020	844	545	1670
14	313	3260	1380	5320	1300	6690	6460	4740	838	666	714	1350
15	403	3200	1140	5350	1430	6280	6050	4600	722	561	2030	1290
16	434	3180	1210	5210	1790	5930	5160	4510	667	466	3310	1060
17	522	3180	1980	5030	2950	5610	3640	4440	1070	416	2360	805
18	631	3220	2660	5050	3630	5680	2380	4380	2060	391	1080	718
19	634	3240	3040	4920	3620	7630	2300	4320	1310	485	618	2230
20	625	3240	3230	4700	2990	7680	2080	4260	996	421	351	2680
21	621	3220	3170	4450	2990	7170	1940	4190	843	383	311	1810
22	590	3260	3090	4180	3700	6880	2180	4080	689	360	697	1440
23	445	3260	3050	3820	7310	6730	2510	3660	620	345	835	1480
24	528	3430	3280	3390	9100	7080	2680	3010	581	508	694	1510
25	344	4100	3980	3150	8190	7040	3380	2370	581	935	573	1510
26	304	3640	3510	3180	7310	6620	4820	1960	722	929	438	1310
27	304	2800	2790	2830	6850	6270	5050	2090	941	630	405	960
28	373	2470	2030	2320	6720	10400	5400	1900	624	524	655	752
29	488	2320	1770	1680	---	20600	5730	2640	539	510	822	660
30	504	2250	2080	1240	---	16700	6140	1930	508	500	851	672
31	463	---	1980	959	---	13000	---	1400	---	466	850	---
TOTAL	16208	78633	67827	114189	104940	237940	180190	132000	29777	21579	28389	37140
MEAN	523	2621	2188	3684	3748	7675	6006	4258	993	696	916	1238
MAX	919	4100	3980	5400	9100	20600	11300	6580	2060	2360	3310	2980
MIN	303	395	957	959	1140	5320	1940	1400	508	264	263	494
AC-FT	32150	156000	134500	226500	208100	472000	357400	261800	59060	42800	56310	73670

CAL YR 1974 TOTAL 1002128 MEAN 2746 MAX 13800 MIN 179 AC-FT 1988000
WTR YR 1975 TOTAL 1048812 MEAN 2873 MAX 20600 MIN 263 AC-FT 2080000

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	724	358	1880	3750	4020	2210	3560	1260	1230	2880	1230	238
2	676	358	1190	1980	4120	1600	3560	1000	1520	2460	1090	193
3	645	364	1020	1350	4150	1340	3670	714	947	1600	1020	171
4	590	406	1240	1120	4160	1340	3390	573	477	4320	862	162
5	514	469	1750	947	4170	1990	2480	526	379	4800	685	157
6	439	552	4540	890	4160	1980	1970	522	462	3420	579	148
7	403	641	6820	899	4130	2090	1900	512	564	2290	521	147
8	392	669	5720	884	4110	2360	1850	489	667	1930	494	142
9	429	556	4440	885	4100	2740	1600	482	855	2320	469	152
10	556	475	2820	887	4080	3020	1290	472	859	2870	444	144
11	629	428	1500	848	4060	3050	1170	470	759	3130	430	132
12	538	430	1010	752	4020	2930	969	467	656	3290	421	129
13	444	585	838	742	3990	2380	901	445	588	3370	405	128
14	407	740	765	756	3950	1810	909	426	506	3380	398	125
15	393	668	945	722	3920	1540	949	405	462	3580	408	122
16	383	461	2050	714	3880	1450	908	620	3820	3810	404	121
17	383	298	1170	689	4330	1550	799	519	4750	3920	520	117
18	373	238	847	672	7570	1620	724	440	2700	3920	595	118
19	313	284	759	657	6940	1310	703	412	4170	3910	607	117
20	244	419	742	687	5340	1210	693	392	3280	3880	580	114
21	205	559	722	687	4650	1650	702	380	2190	3850	526	112
22	191	532	895	698	4200	1530	597	373	1540	3830	441	107
23	185	504	1910	689	2960	1660	514	365	1260	3770	390	107
24	185	436	2910	681	2590	1480	522	349	2940	3680	377	107
25	235	351	3510	2610	2720	1440	1880	336	3960	3590	411	108
26	343	325	4250	4920	2890	1490	1360	270	2880	3460	424	109
27	438	349	4960	2850	3010	1620	1220	207	2460	2920	410	131
28	459	357	5070	1300	3020	1720	1230	499	2520	2820	403	166
29	461	365	5320	1830	2800	2610	1250	1620	2790	2020	423	140
30	410	924	7050	3080	---	3920	1320	735	2900	1620	387	128
31	369	---	5890	3760	---	4100	---	524	---	1330	336	---
TOTAL	12956	14111	84533	43936	118040	62740	44590	16804	55091	97970	16690	4092
MEAN	418	470	2727	1417	4070	2024	1486	542	1836	3160	538	136
MAX	724	924	7050	4920	7570	4100	3670	1620	4750	4800	1230	238
MIN	185	238	722	657	2590	1210	514	207	379	1330	336	107
AC-FT	25700	27990	167700	87150	234100	124400	88440	33330	109300	194300	33100	8120

CAL YR 1975 TOTAL 997744 MEAN 2734 MAX 20500 MIN 185 AC-FT 1979000
WTR YR 1976 TOTAL 571553 MEAN 1562 MAX 7570 MIN 107 AC-FT 1134000

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

WATER-QUALITY RECORDS

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
13...	9827	9827	215	8.0	18.0	10	9.0	2.2	20	--	--
NOV											
17...	9827	9827	209	8.0	7.0	0	11.3	2.5	120	--	--
DEC											
08...	9827	9827	237	7.9	3.0	5	12.4	2.8	40	--	120
JAN											
25...	9827	9827	--	--	--	--	--	--	8	42	--
FEB											
08...	9827	9827	--	--	--	--	--	--	--	--	--
MAR											
08...	9827	9827	--	--	--	--	--	--	--	--	--
08...	9827	9827	234	8.0	11.0	20	10.9	3.6	--	--	80
APR											
12...	9827	9827	69	7.2	18.0	130	8.7	3.4	--	--	--
MAY											
03...	9827	9827	72	6.9	22.0	200	4.5	2.2	--	--	--
24...	9827	9827	106	7.3	22.0	100	6.4	4.0	--	30000	--
JUN											
13...	9827	9827	278	7.9	--	5	7.0	2.9	--	--	--
28...	9827	9827	90	7.4	26.0	200	--	--	--	5000	--
JUL											
11...	9827	9827	99	7.2	26.0	--	5.3	--	38000	--	--
AUG											
01...	9827	9827	240	8.2	24.0	10	7.4	4.4	20000	--	--
SEP											
19...	9827	9827	191	7.9	25.5	10	7.3	2.9	20000	--	82

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	7.0
NOV											
17...	--	--	--	--	--	--	--	--	--	--	9.0
DEC											
08...	13	--	26	--	14	5.1	1.6	130	0	107	7.0
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	0	--	11	--	13	4.6	2.7	120	0	98	10
APR											
12...	--	1.6	--	2.7	--	2.1	3.0	--	--	--	7.0
MAY											
03...	--	--	--	--	--	--	--	--	--	--	6.0
24...	--	--	--	--	--	--	--	--	--	--	10
JUN											
13...	--	--	--	--	--	--	--	--	--	--	5.0
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	9.0
AUG											
01...	--	--	--	--	--	--	--	--	--	--	6.0
SEP											
19...	--	14	--	10	--	3.0	2.1	--	--	--	6.0

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	6.0	138	43	<.10	--	--	.10	--	--	--	<10	860
NOV												
17...	4.5	127	14	<.10	--	--	.04	--	--	--	<10	500
DEC												
08...	7.0	128	10	<.10	--	--	.04	<3	<10	<3	20	620
MAR												
08...	--	153	188	1.3	--	--	--	--	--	--	--	--
08...	6.0	--	--	--	--	--	.20	<3	10	<3	<10	4900
APR												
12...	3.5	101	--	--	--	.12	.15	<10	<10	--	--	--
MAY												
03...	5.5	232	91	.51	.09	.67	.69	--	--	--	--	--
24...	10	264	3080	--	.13	.94	1.6	--	--	--	50	--
JUN												
13...	8.5	163	--	--	<.05	.02	--	--	--	--	<10	--
28...	5.0	206	1330	.59	.09	.37	--	--	--	--	20	--
JUL												
11...	5.0	--	--	.28	.07	.25	--	--	--	--	140	27400
AUG												
01...	7.5	147	36	.01	.00	.03	--	--	--	--	<10	1000
SEP												
19...	4.5	--	114	.14	.01	--	.15	--	<10	<5	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	20	700	--	60	.00	.00	.00	.01	.00	.00	.00	0
NOV												
17...	10	100	--	650	--	--	--	--	--	--	--	--
DEC												
08...	<10	120	<.5	110	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	10	440	--	110	--	--	--	--	--	--	--	--
APR												
12...	10	240	--	--	.00	.00	.00	.00	.00	.04	.00	0
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	1800	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	420	--	<10	--	--	--	--	--	--	--	--
28...	--	--	--	90	.00	.00	.00	.01	.00	.00	.00	0
JUL												
11...	--	800	--	150	.00	.00	.00	.00	.00	.00	.00	0
AUG												
01...	<10	340	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP												
19...	<10	470	--	20	--	--	--	--	--	--	--	--

07040450 ST. FRANCIS RIVER AT LAKE CITY, AR

LOCATION.--Lat 35°49'16", long 90°25'56", in SE¼ sec.22, T.14 N., R.6 E., Craighead County, Hydrologic Unit 08020203, on left bank pier of bridge on Stage Highway 18 at Lake City and at mile 173.6 (279.3 km).

DRAINAGE AREA.--2,374 mi^2 (6,150 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. January 1931 to December 1945 in files of Corps of Engineers. January 1946 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers. Gage-height records since 1916 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 217.69 ft (66.352 m) above mean sea level. Prior to Sept. 1, 1948, nonrecording gage at railroad bridge 0.1 mi (0.2 km) downstream at present datum.

REMARKS.--Some regulation by Wappapello Lake (Missouri) 135 mi (217 km) upstream since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm^3).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--45 years, 3,002 ft^3/s (85.0 m^3/s), 2,175,000 acre-ft/yr (2,680 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,700 ft^3/s (1,040 m^3/s) Jan. 22-24, 1937, gage height, 13.3 ft (4.05 m); minimum, 60 ft^3/s (1.70 m^3/s) Aug. 29, Sept. 1, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1916, that of Jan. 22-24, 1937.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 25,800 ft^3/s (731 m^3/s) Mar. 30, gage height, 12.38 ft (3.773 m); minimum daily, 646 ft^3/s (18.3 m^3/s) Aug. 28.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 14,600 ft^3/s (413 m^3/s) Feb. 19, gage height, 10.22 ft (3.115 m); minimum daily, 288 ft^3/s (8.16 m^3/s) Sept. 28.

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	742	701	3410	4140	4070	8180	20900	5300	2500	978	863	1010
2	772	682	3260	3650	4970	8800	20000	6280	2340	1020	879	919
3	805	676	2820	3920	4730	8850	18300	6200	2180	881	986	939
4	839	680	2740	3800	4050	8670	15700	6150	2020	829	1150	895
5	861	685	2420	3380	3520	8500	13300	6250	1860	832	1370	862
6	860	690	2200	2960	2980	8480	11600	6410	1580	807	1610	1210
7	816	719	2010	2710	2740	8340	10600	7740	1430	783	1960	1120
8	811	744	1800	2680	2700	8290	10200	11500	1280	731	1880	1040
9	856	830	1650	2830	2820	8270	10300	12200	1340	707	1910	1160
10	900	948	1690	3930	2980	8640	10600	10100	1360	736	2110	1290
11	891	1310	1760	5680	3250	9190	10700	8200	1730	766	2150	1290
12	866	1600	1820	5960	3460	11900	10600	7310	2130	1050	1910	1920
13	847	2100	1920	4990	3450	13200	10400	6760	2770	1410	1500	2360
14	832	2300	1980	3870	3320	11600	10400	6400	2610	1480	1120	2370
15	818	2600	1990	3380	3120	9840	9950	6000	2370	1490	961	2270
16	806	2740	1920	3520	2940	8700	9400	5730	2210	1430	1130	2100
17	786	2820	1860	3850	2780	8070	8850	5660	1960	1360	2200	2040
18	759	3140	1770	4090	2530	9300	8320	5630	1190	1230	2250	2170
19	735	3340	1750	4240	2220	12100	7890	5520	1110	1100	1810	2420
20	715	3420	1730	4340	2030	12300	7280	5370	1080	1030	1550	2720
21	712	3540	1710	4380	2020	10800	6310	5190	1100	969	1420	2570
22	724	3480	1780	4370	2420	9680	5110	5140	1080	875	1280	2350
23	742	3470	2030	4300	5820	9890	4190	4600	1010	850	1150	2070
24	732	3660	2510	4330	8810	10700	3580	4330	905	866	1010	1770
25	735	3700	3090	4280	8940	8080	3420	4060	861	882	883	1650
26	749	3840	3590	4180	7610	5670	3250	3780	823	858	838	1710
27	741	3890	3730	4060	6760	5940	3380	3510	783	847	747	1740
28	736	4020	3700	3880	7220	10900	3480	3240	733	845	646	1620
29	730	3720	3750	3710	---	21600	3490	2980	875	852	660	1520
30	722	3590	4030	3600	---	25000	4060	2820	1040	838	737	1430
31	712	---	4230	3680	---	22500	---	2660	---	850	948	---
TOTAL	24352	69635	76650	122640	114260	331480	275560	183020	45860	30182	41618	50535
MEAN	786	2321	2473	3958	4081	10710	9185	5904	1529	974	1343	1685
MAX	900	4020	4230	5960	8940	25000	20900	12200	2770	1490	2250	2720
MIN	712	676	1650	2680	2020	5670	3250	2660	733	707	646	862
AC-FT	48300	138100	152000	243400	226600	658500	546600	363000	90960	59870	82550	100200

CAL YR 1974 TOTAL 1326268 MEAN 3634 MAX 13900 MIN 657 AC-FT 2631000
WTR YR 1975 TOTAL 1366342 MEAN 3743 MAX 25000 MIN 646 AC-FT 2710000

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1380	590	1030	6700	2970	3190	3380	1510	1050	3720	3580	748
2	1280	590	940	6460	2710	3180	3210	1540	969	3440	3400	719
3	1140	595	867	6440	2540	3240	3470	1520	896	4560	3020	711
4	990	632	835	6550	2640	3460	3820	1490	903	7580	2740	703
5	885	642	861	6200	2960	4080	3930	1480	948	9490	2480	1030
6	851	623	2330	5120	3320	3920	3910	1460	1040	8890	2210	1000
7	827	604	2920	4180	3500	3460	3860	1330	1060	7360	1800	975
8	808	592	3830	3290	3530	3500	3730	1130	919	5980	1560	861
9	785	594	3860	2780	3630	4670	3450	918	737	4960	1310	752
10	756	630	3350	2400	3650	5050	3080	774	701	4430	1230	745
11	727	686	3400	2020	3700	4660	2800	728	694	3900	984	715
12	702	698	4310	1810	3620	4040	2610	706	712	3320	750	641
13	696	690	4390	1650	3540	3580	2480	684	738	3110	707	612
14	708	665	4710	1560	3420	3400	2320	675	773	2950	686	604
15	715	631	4230	1520	3300	3380	2110	665	991	2800	688	596
16	724	609	3680	1490	3200	3390	1880	646	1400	2820	711	566
17	741	609	3000	1460	4040	3280	1670	628	1710	2830	734	559
18	717	622	2580	1400	9500	3050	1540	622	2820	2990	691	530
19	685	629	2180	1360	14100	2740	1480	625	2840	3020	671	509
20	648	630	1900	1350	12700	2630	1450	630	2800	3240	672	503
21	622	589	1790	1330	11300	2660	1380	627	3090	3260	629	450
22	602	541	1750	1300	10400	2610	1300	618	3420	3460	675	412
23	574	515	1570	1260	9150	2430	1240	603	3920	3470	676	371
24	538	518	1420	1220	7530	2230	1350	589	4180	3490	655	352
25	542	534	1470	3120	6130	2160	1410	581	4520	3500	657	322
26	571	574	2100	4590	4930	2210	1320	587	4840	3510	623	303
27	547	644	2270	4660	4270	2320	1210	680	4690	3330	611	295
28	528	653	2560	3940	3720	2710	1170	1630	4300	3340	621	288
29	539	618	3380	3140	3350	4150	1270	1900	4070	3540	740	292
30	568	842	4630	2920	---	4100	1430	1700	3990	3750	750	296
31	583	---	5000	3090	---	3780	---	1300	---	3760	738	---
TOTAL	22979	18589	83643	96330	153400	103260	69260	30576	65721	129800	37999	17460
MEAN	741	620	2698	3107	5290	3331	2309	986	2191	4187	1226	582
MAX	1380	842	5000	6700	14100	5050	3930	1900	4840	9490	3580	1030
MIN	528	515	835	1220	2540	2160	1170	581	694	2800	611	288
AC-FT	45580	36870	165900	191100	304300	204800	137400	60650	130400	257500	75370	34630

CAL YR 1975 TOTAL 1320916 MEAN 3619 MAX 25000 MIN 515 AC-FT 2620000
WTR YR 1976 TOTAL 829017 MEAN 2265 MAX 14100 MIN 288 AC-FT 1644000

07040450 ST. FRANCIS RIVER AT LAKE CITY, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COL-UNIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
13...	9827	9827	251	8.2	18.0	5	8.8	2.3	440	--	--
NOV											
17...	9827	9827	290	8.1	8.0	5	11.0	3.0	230	--	--
DEC											
08...	9827	9827	278	8.0	4.0	0	11.4	2.4	200	--	140
JAN											
25...	9827	9827	317	7.8	1.0	0	12.3	3.2	270	20	--
FEB											
08...	9827	9827	233	7.8	2.0	35	12.9	3.5	270	100	--
MAR											
08...	9827	9827	123	7.4	11.0	160	8.1	2.7	--	--	27
APR											
12...	9827	9827	110	7.5	20.0	150	7.3	2.8	--	--	--
MAY											
24...	9827	9827	214	7.6	23.0	80	5.9	3.9	2800	11000	--
JUN											
13...	9827	9827	305	8.0	28.0	15	6.0	3.6	--	--	--
28...	9827	9827	144	7.5	26.0	200	--	--	4600	200	--
JUL											
11...	9827	9827	153	7.7	26.0	--	6.0	--	7200	--	--
AUG											
01...	9827	9827	283	8.0	27.0	15	7.2	3.6	73000	--	--
SEP											
19...	9827	9827	156	7.6	25.0	40	6.7	2.8	22000	--	49

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	10
NOV											
17...	--	--	--	--	--	--	--	--	--	--	10
DEC											
08...	9	--	37	--	11	9.3	1.9	160	0	131	9.0
JAN											
25...	--	--	--	--	--	--	--	--	--	--	9.0
FEB											
08...	--	--	--	--	--	--	--	--	--	--	20
MAR											
08...	0	--	2.8	--	4.8	3.9	3.8	55	0	45	46
APR											
12...	--	3.2	--	3.9	--	2.9	3.0	--	--	--	8.0
MAY											
24...	--	--	--	--	--	--	--	--	--	--	10
JUN											
13...	--	--	--	--	--	--	--	--	--	--	5.0
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
SEP											
19...	--	6.0	--	6.0	--	4.0	3.5	--	--	--	8.0

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	8.5	180	54	1.2	--	--	.18	--	--	--	<10	1800
NOV												
17...	5.5	179	--	<.10	--	--	.08	--	--	--	40	640
DEC												
08...	7.0	175	4	<.10	--	--	.08	<3	<10	<3	<10	400
JAN												
25...	7.5	182	14	<.10	--	--	.11	--	--	--	<10	710
FEB												
08...	6.0	162	25	.33	--	--	.05	--	--	--	<10	2100
MAR												
08...	4.0	259	78	.36	--	--	.40	<3	<10	<3	<10	10500
APR												
12...	4.5	135	--	--	--	.10	.13	<10	<10	--	--	--
MAY												
24...	6.5	190	338	--	.05	.34	.49	--	--	--	<10	--
JUN												
13...	6.5	198	--	--	<.05	.06	--	--	--	--	<10	--
28...	6.5	243	332	.29	.10	.53	--	--	--	--	<10	--
JUL												
11...	4.5	--	--	.23	.05	.23	--	--	--	--	120	15400
AUG												
01...	6.5	190	82	.01	.01	.04	--	--	--	--	<10	2900
SEP												
19...	8.5	--	132	.12	<.05	--	.33	--	<10	7	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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	.00	.00	.00	.00	.00	.00	.00	0
NOV												
17...	--	180	--	<10	--	--	--	--	--	--	--	--
DEC												
08...	<10	160	<.5	50	--	--	--	--	--	--	--	--
JAN												
25...	--	340	--	<10	--	--	--	--	--	--	--	--
FEB												
08...	--	160	--	<10	--	--	--	--	--	--	--	--
MAR												
08...	<10	250	--	50	--	--	--	--	--	--	--	--
APR												
12...	<10	150	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAY												
24...	--	910	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	750	--	20	--	--	--	--	--	--	--	--
28...	--	--	--	70	.00	.00	.00	.00	.00	.00	.00	0
JUL												
11...	--	930	--	40	.00	.00	.00	.00	.00	.00	.00	0
AUG												
01...	--	590	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP												
19...	<10	460	--	20	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020204, 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 mi² (5,398 km²).

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
13...	9827	9827	394	8.2	19.0	5	8.6	3.2	160	--	--
NOV											
17...	9827	9827	421	8.3	10.0	0	11.9	3.8	80	--	--
DEC											
08...	9827	9827	414	8.2	4.0	5	12.5	3.0	80	--	190
FEB											
08...	9827	9827	--	--	--	--	--	--	10	<7	--
MAR											
08...	9827	9827	247	7.8	11.0	60	8.1	2.5	--	--	56
APR											
12...	9827	9827	123	7.5	19.0	200	7.1	2.8	--	--	--
MAY											
24...	9827	9827	339	8.0	22.0	30	6.6	3.3	120	5400	--
JUN											
13...	9827	9827	316	8.0	28.0	15	8.2	4.6	--	--	--
28...	9827	9827	306	7.8	26.0	15	--	--	70	65	--
JUL											
11...	9827	9827	158	7.5	26.0	--	5.0	--	200	--	--
AUG											
01...	9827	9827	336	8.0	27.0	10	7.2	2.0	1100	--	--
SEP											
19...	9827	9827	277	8.1	25.5	0	8.8	5.9	2000	--	130

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	20
NOV											
17...	--	--	--	--	--	--	--	--	--	--	28
DEC											
08...	10	--	50	--	17	15	2.3	220	0	180	18
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	0	--	9.2	--	8.0	8.6	4.4	110	0	90	12
APR											
12...	--	2.4	--	3.7	--	4.1	4.7	--	--	--	9.0
MAY											
24...	--	--	--	--	--	--	--	--	--	--	16
JUN											
13...	--	--	--	--	--	--	--	--	--	--	14
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
01...	--	--	--	--	--	--	--	--	--	--	13
SEP											
19...	--	36	--	9.0	--	10	3.3	--	--	--	11

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	23	262	20	<.10	--	--	.19	--	--	--	<10	440
NOV												
17...	18	251	7	<.10	--	--	.08	--	--	--	<10	280
DEC												
08...	20	249	16	<.10	--	--	.10	<3	20	<3	<10	220
MAR												
08...	9.0	258	160	.32	--	--	.42	<3	<10	<3	10	10400
APR												
12...	5.5	214	--	--	--	.31	.46	<10	<10	--	--	--
MAY												
24...	17	211	438	--	.01	.16	.41	--	--	--	<10	--
JUN												
13...	15	206	--	--	<.05	.02	--	--	--	--	<10	--
28...	14	186	59	--	.01	.08	--	--	--	--	<10	--
JUL												
11...	6.5	--	--	.06	.02	.14	--	--	--	--	<10	2700
AUG												
01...	15	212	28	.01	.00	.03	--	--	--	--	<10	850
SEP												
19...	13	--	15	<.05	<.05	--	.13	--	<10	<5	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	81	--	10	.00	.00	.00	.00	.00	.00	.00	0
NOV												
17...	--	47	--	<10	--	--	--	--	--	--	--	--
DEC												
08...	<10	59	<.5	80	--	--	--	--	--	--	--	--
MAR												
08...	<10	230	--	40	--	--	--	--	--	--	--	--
APR												
12...	<10	250	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAY												
24...	--	280	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	310	--	<10	--	--	--	--	--	--	--	--
28...	--	--	--	<10	.00	.00	.00	.00	.00	.00	.00	0
JUL												
11...	--	300	--	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG												
01...	--	220	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP												
19...	<10	150	--	<10	--	--	--	--	--	--	--	--

07046600 RIGHT HAND CHUTE OF LITTLE RIVER AT RIVERVALE, AR

LOCATION.--Lat 35°40'20", long 90°20'12", in SW¼ sec.10, T.12 N., R.7 E., Poinsett County, Hydrologic Unit 08020204, at bridge on State Highway 135 at Rivervale, 9.0 mi (14.5 km) upstream from St. Francis River.

DRAINAGE AREA.--2,106 mi² (5,455 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. January 1947 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 213.15 ft (64.968 m) above mean sea level. Prior to Oct. 6, 1949, nonrecording gage at present site and datum.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--29 years, 2,896 ft³/s (82.0 m³/s), 2,098,000 acre-ft/yr (2,590 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft³/s (889 m³/s) Nov. 23, 1957; maximum gage height, 13.57 ft (4.141 m) Jan. 19, 1950; minimum discharge, 77 ft³/s (2.18 m³/s) Nov. 5, 1971.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 33,800 ft³/s (957 m³/s) Apr. 2, gage height, 12.75 ft (3.886 m); minimum, 600 ft³/s (17.0 m³/s) Oct. 28, gage height, 1.96 ft (0.597 m).

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 15,400 ft³/s (436 m³/s) Feb. 23, gage height, 9.22 ft (2.810 m); minimum daily, 312 ft³/s (8.84 m³/s) Sept. 26.

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	990	640	1680	2270	1830	10600	27800	4650	2200	1140	1360	1390
2	1080	722	1450	2420	2540	9120	33500	4910	2200	1110	1450	1300
3	1090	782	1270	2960	3060	7400	32200	4330	2120	1180	1360	1210
4	1080	766	1230	4300	3210	5710	29400	3690	2080	1130	2060	1090
5	1060	844	1200	3970	3880	4490	25500	3020	1970	1080	2510	992
6	1040	844	1140	4070	4810	3550	21100	2900	1970	1040	2570	924
7	1040	907	1110	4250	4610	2930	17000	3350	1940	941	3320	1040
8	958	1040	1090	4070	4120	2640	13300	6030	1900	1060	4640	1090
9	890	1160	1130	4170	3840	2410	10700	7180	1790	1360	3910	1110
10	828	1230	1130	3970	3430	2360	9560	7900	1950	1890	3710	1160
11	782	1470	1080	5090	2960	2640	8240	7880	1800	2300	2720	1250
12	766	1560	1060	5500	2900	4390	7200	6990	1830	2550	2320	1470
13	750	1320	1080	6080	2920	6630	6310	6040	1780	2580	1990	1900
14	722	1340	1060	6690	2560	8820	5710	5010	1750	2410	1820	2230
15	812	1320	1030	6670	2390	10900	4820	4330	1640	2220	1730	2490
16	782	1230	924	6080	2320	13400	4170	4800	1700	2040	1700	2860
17	750	1200	958	5210	2270	13700	3620	3600	1540	1900	1790	3390
18	750	1090	958	4350	2270	13600	3200	2960	1410	1600	2000	3290
19	750	1040	941	3750	2180	13200	3080	2670	1340	1390	2370	3050
20	722	1090	958	3280	2120	13000	2870	2560	1520	1390	2670	3050
21	708	1090	992	2780	2060	13200	2640	2390	1560	1320	2940	3040
22	681	1090	992	2530	2020	12900	2540	2270	1620	1320	3060	2950
23	668	1140	992	2240	2510	11900	2400	2220	1450	1490	2800	3030
24	654	1450	992	1960	5290	10600	2290	2170	1280	1580	2600	2980
25	640	2100	1130	1800	7360	10100	2380	2150	1160	1780	2320	2900
26	627	2000	1390	1790	9660	8700	2420	2180	1140	1680	1880	2940
27	614	1890	1490	1750	11600	7980	2490	2320	1040	1680	1790	3160
28	614	1880	1580	1700	11800	9720	2840	2270	1180	1680	1620	3060
29	654	1860	1820	1670	---	12300	3740	2260	1160	1620	1450	2710
30	681	1800	1950	1720	---	15400	4230	2220	1090	1360	1340	2450
31	654	---	2080	1720	---	20900	---	2230	---	1370	1450	---
TOTAL	24837	37895	37887	110810	112520	285190	297250	119480	49110	49191	71250	65506
MEAN	801	1263	1222	3575	4019	9200	9908	3854	1637	1587	2298	2184
MAX	1090	2100	2080	6690	11800	20900	33500	7900	2200	2580	4640	3390
MIN	614	640	924	1670	1830	2360	2290	2150	1040	941	1340	924
AC-FT	49260	75160	75150	219800	223200	565700	589600	237000	97410	97570	141300	129900

CAL YR 1974 TOTAL 1066759 MEAN 2923 MAX 11900 MIN 614 AC-FT 2116000
WTR YR 1975 TOTAL 1260926 MEAN 3455 MAX 33500 MIN 614 AC-FT 2501000

07046600 RIGHT HAND CHUTE OF LITTLE RIVER AT RIVERVALE, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2200	782	2160	5610	5580	3510	6960	1500	2730	7880	1650	458
2	1820	722	2080	6160	4460	2790	6820	1480	3010	6340	1520	494
3	1670	722	1900	6410	3620	2540	5660	1570	3510	5320	1400	520
4	1540	782	1920	6290	3020	2380	4350	1520	3530	5730	1340	598
5	1390	844	1970	5700	2670	2490	3490	1540	3360	6770	1270	635
6	1250	844	2060	4940	2510	2740	2770	1610	3190	8130	1220	640
7	1180	958	2890	4250	2330	2600	2420	1690	3020	9390	1220	633
8	1110	1300	3970	3930	2160	2640	2180	1660	2820	9680	1130	643
9	1080	1160	5430	3560	2070	3620	2000	1570	2540	9290	1070	688
10	1060	1110	6310	2710	2040	5560	1840	1540	2400	8470	1000	709
11	1010	1250	6290	2430	2140	5480	1710	1550	2230	7370	945	641
12	992	1230	5520	2280	2180	4860	1650	1530	2050	5920	889	616
13	975	1230	4520	2110	2180	4450	1480	1500	1880	4380	839	601
14	992	1210	3540	2070	2260	3910	1380	1600	1690	3060	835	592
15	975	1140	2940	1970	2250	3410	1300	1420	1450	2420	902	576
16	924	1130	2990	1930	2280	3010	1200	1260	1480	2360	922	555
17	924	1140	2940	1900	2380	2640	1190	1190	1680	2330	969	528
18	975	1130	2640	1800	3660	2420	1160	1140	2440	2260	969	496
19	1010	1340	2590	1650	6820	2300	1200	1090	5880	2320	969	469
20	958	1110	2570	1680	9440	2160	1170	1050	7640	2470	943	469
21	890	1160	2590	1630	13000	2240	1170	1050	8660	2410	888	446
22	828	1150	2440	1500	14700	2170	1230	1030	8680	2360	840	391
23	813	1030	2260	1640	14900	2060	1150	1010	7930	2310	779	354
24	828	941	2080	1850	14000	1910	1130	955	7180	2250	734	353
25	813	958	2090	2220	12300	1830	1250	874	7270	2190	689	338
26	907	924	2780	3790	10000	1680	1310	826	8210	2120	647	312
27	924	941	4250	5280	8050	1510	1200	1070	9440	2060	600	334
28	859	992	3900	6460	6170	1420	1270	1630	10300	1990	588	331
29	859	992	4000	7500	4560	2510	1390	2430	10700	1920	625	321
30	890	1030	4780	7610	---	5270	1450	2530	9480	1840	589	327
31	859	---	5300	6790	---	6370	---	2510	---	1750	505	---
TOTAL	33505	31252	103700	115670	163730	94480	64480	44925	146380	135090	29486	15068
MEAN	1081	1042	3345	3731	5646	3048	2149	1449	4879	4358	951	502
MAX	2200	1340	6310	7610	14900	6370	6960	2530	10700	9680	1650	709
MIN	813	722	1900	1500	2040	1420	1130	826	1450	1750	505	312
AC-FT	66460	61990	205700	229400	324800	187400	127900	89110	290300	268000	58490	29890

CAL YR 1975 TOTAL 1328764 MEAN 3640 MAX 33500 MIN 722 AC-FT 2636000
WTR YR 1976 TOTAL 977766 MEAN 2671 MAX 14900 MIN 312 AC-FT 1939000

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, Hydrologic Unit 08020204, 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 1976 TO SEPTEMBER 1977

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)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)
OCT											
13...	9827	9827	497	6.5	20.0	10	14.2	7.9	3400	--	--
NOV											
17...	9827	9827	447	8.0	9.0	10	12.4	9.8	6000	--	--
DEC											
08...	9827	9827	1370	7.8	4.0	5	13.0	10	44000	--	140
FEB											
08...	9827	9827	389	7.7	1.0	5	14.3	6.4	35000	330	--
MAR											
08...	9827	9827	396	7.9	13.0	10	10.8	9.7	--	--	120
APR											
12...	9827	9827	479	8.6	20.0	20	20.2	22	--	--	--
MAY											
24...	9827	9827	153	7.6	23.0	100	5.4	5.1	9000	27000	--
JUN											
13...	9827	9827	483	8.1	29.0	5	11.0	6.7	--	--	--
28...	9827	9827	355	8.1	27.0	10	--	--	2000	90	--
JUL											
11...	9827	9827	76	6.9	27.0	--	3.9	--	7900	--	--
AUG											
01...	9827	9827	441	9.0	28.0	20	17.6	9.6	4900	--	--
SEP											
19...	9827	9827	307	7.7	26.0	15	6.5	3.5	22000	--	100

DATE	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	TOTAL CAL-CIUM (CA) (MG/L) (00916)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	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)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	21
NOV											
17...	--	--	--	--	--	--	--	--	--	--	33
DEC											
08...	0	--	36	--	12	25	5.5	180	0	148	32
FEB											
08...	--	--	--	--	--	--	--	--	--	--	48
MAR											
08...	0	--	27	--	12	19	4.8	200	0	164	23
APR											
12...	--	53	--	16	--	25	6.6	--	--	--	23
MAY											
24...	--	--	--	--	--	--	--	--	--	--	20
JUN											
13...	--	--	--	--	--	--	--	--	--	--	28
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
01...	--	--	--	--	--	--	--	--	--	--	32
SEP											
19...	--	26	--	8.0	--	17	6.9	--	--	--	19

07047400 PEMISCOT BAYOU AT DELL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	18	319	111	1.3	--	--	.61	--	--	--	<10	4100
NOV												
17...	14	294	30	.97	--	--	.80	--	--	--	<10	1700
DEC												
08...	15	238	35	.89	--	--	2.2	<3	20	<3	60	1500
FEB												
08...	12	249	25	1.1	--	--	.70	--	--	--	<10	1800
MAR												
08...	10	281	61	.74	--	--	1.0	<3	<10	<3	<10	2600
APR												
12...	12	323	--	--	--	<.10	.70	<10	<10	--	--	--
MAY												
24...	6.0	194	656	--	.14	.79	2.1	--	--	--	30	--
JUN												
13...	12	305	--	--	<.05	.00	--	--	--	--	<10	--
28...	9.0	222	69	.39	.06	.04	--	--	--	--	30	--
JUL												
11...	4.0	--	--	.18	.04	.23	--	--	--	--	<10	5200
AUG												
01...	14	291	26	.03	.02	.02	--	--	--	--	<10	770
SEP												
19...	11	--	26	.58	.18	--	.72	--	<10	<5	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	510	--	80	.00	.00	.00	.01	.00	.00	.00	0
NOV												
17...	--	450	--	90	--	--	--	--	--	--	--	--
DEC												
08...	<10	370	.8	110	--	--	--	--	--	--	--	--
FEB												
08...	--	490	--	50	--	--	--	--	--	--	--	--
MAR												
08...	<10	530	--	150	--	--	--	--	--	--	--	--
APR												
12...	<10	670	--	--	.00	.00	.00	.01	.01	.00	.00	0
MAY												
24...	--	1000	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	450	--	<10	--	--	--	--	--	--	--	--
28...	--	--	--	20	.00	.00	.00	.01	.00	.00	.00	0
JUL												
11...	--	220	--	10	.00	.00	.00	.00	.00	.00	.00	0
AUG												
01...	--	180	--	--	--	--	.00	--	.00	.00	.00	0
SEP												
19...	<10	280	--	<10	--	--	--	--	--	--	--	--

07047560 TYRONZA RIVER NEAR DYESS, AR

LOCATION.--Lat 35°34'36", long 90°14'57", in NW¼ sec.16, T.11 N., R.8 E., Mississippi County, Hydrologic Unit 08020203, at bridge on State Highway 77, 2.2 mi (3.5 km) southwest of Dyess.

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 TO JULY 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	OIL-GREASE (SEVERITY) (01300)	GAS BUBBLES (SEVERITY) (01310)	FLOATING SLUDGE (SEVERITY) (01315)	ATMOSPHERIC ODOR (SEVERITY) (01330)	DEAD FISH (SEVERITY) (01340)	FLOATING DEBRIS (SEVERITY) (01345)	TURBIDITY (SEVERITY) (01350)	FLOATING OR SOLID ICE COVER (SEVERITY) (01355)
JUL , 1976										
19...	1028	1028	0	0	0	0	0	1	1	--
AUG										
17...	1028	1028	0	0	0	0	0	0	2	--
SEP										
14...	1028	1028	0	0	0	0	0	0	0	--
OCT										
12...	1028	1028	0	0	0	1	0	1	3	--
NOV										
09...	1028	1028	0	0	0	0	0	1	3	--
DEC										
13...	1028	1028	0	0	0	0	0	0	2	--
JAN , 1977										
18...	1028	1028	--	--	--	--	--	--	--	3
FEB										
14...	1028	1028	0	0	0	0	0	0	3	--
MAR										
14...	1028	1028	0	0	0	0	0	1	4	--
APR										
11...	1028	1028	0	0	0	0	0	0	1	--
MAY										
10...	1028	1028	0	0	0	0	0	2	1	--
JUN										
06...	1028	1028	0	0	0	0	0	2	2	--

DATE	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)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
JUL , 1976										
19...	67	608	8.2	31.5	29.5	10	9.6	79	290	15
AUG										
17...	194	307	7.4	31.5	27.0	80	5.9	75	140	13
SEP										
14...	50	607	8.1	31.0	26.5	25	9.0	114	290	0
OCT										
12...	16	600	8.2	26.5	22.0	20	12.2	144	300	14
NOV										
09...	46	530	7.8	18.5	11.0	20	10.1	94	230	0
DEC										
13...	84	414	7.7	7.0	5.5	40	11.8	96	170	23
JAN , 1977										
18...	79	405	7.1	-6.0	.0	15	--	--	170	18
FEB										
14...	70	280	7.5	10.0	8.5	270	9.4	83	110	31
MAR										
14...	225	107	7.0	26.0	15.0	700	8.3	89	40	7
APR										
11...	28	650	7.9	28.5	26.0	75	8.6	108	280	14
MAY										
10...	27	693	8.0	30.0	21.0	45	9.3	107	340	33
JUN										
06...	14	538	8.5	43.5	31.5	31	9.0	122	270	47

07047560 TYRONZA RIVER NEAR DYESS, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
19...	78	22	18	12	.5	3.8	330	0	271	3.3
AUG										
17...	39	11	--	--	--	--	158	0	130	10
SEP										
14...	77	24	--	--	--	--	380	0	312	4.8
OCT										
12...	77	26	19	12	.5	3.7	348	0	285	3.5
NOV										
09...	63	17	--	--	--	--	318	0	261	8.1
DEC										
13...	47	13	--	--	--	--	180	0	148	5.7
JAN , 1977										
18...	46	14	13	14	.4	4.2	188	0	154	24
FEB										
14...	31	8.7	--	--	--	--	100	0	82	5.1
MAR										
14...	11	3.1	--	--	--	--	41	0	34	6.6
APR										
11...	76	23	19	12	.5	4.4	330	0	271	6.6
MAY										
10...	92	26	--	--	--	--	370	0	300	5.9
JUN										
06...	74	20	--	--	--	--	260	6	223	1.4

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
19...	59	6.4	20	365	381	370	.50	66.3	62	443
AUG										
17...	--	--	--	183	208	--	.25	95.9	207	415
SEP										
14...	--	--	--	366	392	--	.50	49.4	36	428
OCT										
12...	45	7.7	21	373	334	371	.51	16.1	36	370
NOV										
09...	--	--	--	366	347	--	.50	45.5	48	395
DEC										
13...	--	--	--	243	255	--	.33	55.2	59	314
JAN , 1977										
18...	41	7.8	13	261	287	232	.36	56.0	16	303
FEB										
14...	--	--	--	175	260	--	.24	33.1	396	656
MAR										
14...	--	--	--	75	200	--	.10	45.6	1080	1280
APR										
11...	61	6.6	17	376	431	370	.51	28.9	172	603
MAY										
10...	--	--	--	408	449	--	.55	29.7	70	519
JUN										
06...	--	--	--	330	361	--	.45	12.5	54	415

07047560 TYRONZA RIVER NEAR DYESS, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
19...	.33	.92	1.3	5.5	.23	--	--	1700	140	--
AUG										
17...	.28	.99	1.3	5.6	.38	--	14	--	--	--
SEP										
14...	.01	.55	.56	2.5	.17	--	5	--	--	6.5
OCT										
12...	.03	.47	.50	2.2	.15	--	--	1600	230	--
NOV										
09...	.39	1.8	2.2	9.7	.25	--	--	--	--	--
DEC										
13...	.92	1.1	2.0	8.9	.26	.14	--	--	--	--
JAN , 1977										
18...	1.8	.33	2.1	9.4	.22	.13	2	1100	240	5.8
FEB										
14...	2.0	2.3	4.3	19	.59	.07	--	--	--	--
MAR										
14...	1.1	3.3	4.4	19	1.2	.90	--	--	--	--
APR										
11...	.19	.72	.91	4.0	.24	.19	2	4800	400	5.7
MAY										
10...	.20	.43	.63	2.8	.19	.17	--	--	--	--
JUN										
06...	.09	.92	1.0	4.5	.17	.11	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
14...	25	.0	13	4.6	7.8	3.2	.0	1.3	.0	.0	.0	.0
AUG , 1977												
10...	60	.0	0	7.9	1.3	.0	.0	1.1	.5	.0	.0	.3

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
14...	.0	.0	.0	.0	.0	.0	0	.0	.00	.02	.00
AUG , 1977											
10...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

07047570 TYRONZA BAYOU NEAR DYESS, AR

LOCATION.--Lat 35°36'42", long 90°09'36", in SE¼ sec.31, T.12 N., R.9 E., Mississippi County, Hydrologic Unit 08020203, at bridge on county road 3.3 mi (5.3 km) northeast of Dyess.

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	OIL-GREASE (SEVER-ITY) (01300)	GAS BUBBLES (SEVER-ITY) (01310)	FLOAT-ING SLUDGE (SEVER-ITY) (01315)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DEAD FISH (SEVER-ITY) (01340)	FLOAT-ING DEBRIS (SEVER-ITY) (01345)	TUR-BID-ITY (SEVER-ITY) (01350)	FLOAT-ING OR SOLID ICE COVER (SEVER-ITY) (01355)
JUL , 1976										
19...	1028	1028	0	0	0	0	0	0	1	--
AUG										
17...	1028	1028	0	0	0	0	0	3	2	--
SEP										
14...	1028	1028	0	0	0	0	0	1	0	--
NOV										
09...	1028	1028	0	1	0	1	0	1	3	--
DEC										
13...	1028	1028	0	0	0	0	0	3	3	--
JAN , 1977										
18...	1028	1028	--	--	--	--	--	--	--	2
FEB										
14...	1028	1028	0	0	0	0	0	1	3	--
MAR										
14...	1028	1028	0	0	0	0	0	1	4	--
APR										
11...	1028	1028	3	0	3	0	0	0	4	--
JUN										
06...	1028	1028	0	0	0	0	0	2	4	--

DATE	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)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)
JUL , 1976										
19...	.35	580	7.7	31.0	29.5	15	6.4	84	250	42
AUG										
17...	.81	516	7.6	34.5	26.5	20	4.9	62	270	32
SEP										
14...	E.10	566	8.0	30.0	23.0	10	4.6	55	280	8
NOV										
09...	14	570	7.8	18.0	11.0	9	10.1	94	280	43
DEC										
13...	.64	225	7.3	7.5	4.0	70	11.2	88	90	35
JAN , 1977										
18...	E.30	180	7.0	-10.0	.0	30	--	--	73	34
FEB										
14...	154	188	6.4	11.0	7.5	270	7.6	66	71	38
MAR										
14...	1.1	99	6.9	24.0	17.0	800	6.7	72	35	0
APR										
11...	E.10	210	8.3	31.5	25.0	65	9.6	118	82	35
JUN										
06...	.11	126	7.2	43.0	26.5	440	3.0	38	54	14

07047570 TYRONZA BAYOU NEAR DYESS, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
19...	62	22	19	14	.5	3.0	254	0	208	8.1
AUG										
17...	66	25	--	--	--	--	288	0	236	12
SEP										
14...	70	26	--	--	--	--	334	0	274	5.3
NOV										
09...	77	22	--	--	--	--	292	0	239	7.4
DEC										
13...	23	7.8	--	--	--	--	67	0	55	5.4
JAN , 1977										
18...	19	6.3	5.6	13	.3	4.9	48	0	39	7.7
FEB										
14...	19	5.7	--	--	--	--	40	0	33	25
MAR										
14...	9.3	2.8	--	--	--	--	54	0	44	11
APR										
11...	22	6.6	5.2	11	.3	4.0	57	0	47	.5
JUN										
06...	15	4.0	--	--	--	--	49	0	40	4.9

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
19...	48	8.3	7.8	325	338	295	.44	.31	20	358
AUG										
17...	--	--	--	304	293	--	.41	.66	22	315
SEP										
14...	--	--	--	342	368	--	.47	.09	13	381
NOV										
09...	--	--	--	333	355	--	.45	12.6	22	377
DEC										
13...	--	--	--	130	168	--	.18	.22	81	249
JAN , 1977										
18...	37	7.5	5.6	137	182	110	.19	.11	19	201
FEB										
14...	--	--	--	123	209	--	.17	51.1	335	544
MAR										
14...	--	--	--	65	370	--	.09	.19	1020	1390
APR										
11...	26	4.4	7.6	123	146	104	.17	.03	105	251
JUN										
06...	--	--	--	86	207	--	.12	.03	496	703

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
19...	.02	.42	.44	1.9	.14	--	--	1100	210	--
AUG										
17...	.01	.84	.85	3.8	.17	--	7	--	--	--
SEP										
14...	.02	.79	.81	3.6	.11	--	5	--	--	18
NOV										
09...	.29	.95	1.2	5.5	.12	--	--	--	--	--
DEC										
13...	1.3	1.3	2.6	12	.29	.19	--	--	--	--
JAN , 1977										
18...	2.6	1.2	3.8	17	.27	.22	5	1700	80	8.6
FEB										
14...	1.6	1.8	3.4	15	.54	.14	--	--	--	--
MAR										
14...	.80	2.7	3.5	16	1.1	1.1	--	--	--	--
APR										
11...	2.1	1.7	3.8	17	.26	.15	3	2600	130	9.2
JUN										
06...	.11	2.3	2.4	11	1.3	1.0	--	--	--	--

07047570 TYRONZA BAYOU NEAR DYESS, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MATERIAL (UG/KG) (39333)	CHLORDANE IN BOTTOM MATERIAL (UG/KG) (39351)	DDD IN BOTTOM MATERIAL (UG/KG) (39363)	DDE IN BOTTOM MATERIAL (UG/KG) (39368)	DDT IN BOTTOM MATERIAL (UG/KG) (39373)	DIAZINON IN BOTTOM MATERIAL (UG/KG) (39571)	DIELDRIN IN BOTTOM MATERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MATERIAL (UG/KG) (39393)	ETHION IN BOTTOM MATERIAL (UG/KG) (39399)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG) (39413)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG) (39423)
SEP , 1976												
14...	55	.0	0	8.6	10	12	.0	.4	.0	.0	.0	.0
AUG , 1977												
10...	10	.0	0	.7	.6	.0	.0	.1	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG) (39343)	MALATHION IN BOTTOM MATERIAL (UG/KG) (39531)	METHOXYCHLOR IN BOTTOM MATERIAL (UG/KG) (39481)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG) (39601)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG) (39791)	PARATHION IN BOTTOM MATERIAL (UG/KG) (39541)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG) (39403)	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)
SEP , 1976											
14...	.0	.0	.0	.0	.0	.0	0	.0	.00	.06	.00
AUG , 1977											
10...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

07047575 TYRONZA RIVER DITCH NO. 40 NEAR CHELFORD, AR

LOCATION.--Lat 35°33'15", long 90°14'56", in SW¼ sec.21, T.11 N., R.8 E., Mississippi County, Hydrologic Unit 08020203, at bridge on State Highway 77, 7.7 mi (12.4 km) northwest of Chelford.

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	OIL-GREASE (SEVER-ITY) (01300)	GAS BUBBLES (SEVER-ITY) (01310)	FLOAT-ING SLUDGE (SEVER-ITY) (01315)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DEAD FISH (SEVER-ITY) (01340)	FLOAT-ING DEBRIS (SEVER-ITY) (01345)	TUR-BID-ITY (SEVER-ITY) (01350)	FLOAT-ING OR SOLID ICE COVER (SEVER-ITY) (01355)
JUL , 1976										
19...	1028	1028	0	0	0	0	0	0	1	--
AUG										
17...	1028	1028	0	0	0	0	0	1	2	--
SEP										
14...	1028	1028	0	0	0	0	0	0	0	--
OCT										
12...	1028	1028	1	0	0	1	0	1	3	--
NOV										
09...	1028	1028	0	0	0	0	0	1	3	--
DEC										
13...	1028	1028	0	0	0	0	0	1	3	--
JAN , 1977										
18...	1028	1028	--	--	--	--	--	--	--	4
FEB										
14...	1028	1028	0	0	0	0	0	0	3	--
MAR										
14...	1028	1028	0	0	0	0	0	0	4	--
APR										
11...	1028	1028	0	0	0	0	0	0	4	--
MAY										
10...	1028	1028	0	0	0	0	0	1	2	--
JUN										
06...	1028	1028	0	0	0	0	0	1	2	--

DATE	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)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	HARD-NESS (CA+MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)
JUL , 1976										
19...	19	562	8.1	32.0	30.5	25	13.5	180	270	0
AUG										
17...	26	560	8.0	31.5	31.5	45	9.4	127	320	11
SEP										
14...	9.1	560	8.4	33.0	29.0	20	8.9	117	290	0
OCT										
12...	1.9	580	8.1	26.5	19.5	30	9.4	101	300	1
NOV										
09...	7.1	390	7.9	18.5	12.0	10	11.6	112	190	2
DEC										
13...	13	327	7.8	4.0	6.0	130	11.8	98	150	19
JAN , 1977										
18...	--	425	7.0	-7.0	.0	20	--	--	220	8
FEB										
14...	58	250	7.2	13.0	8.0	270	9.4	82	100	25
MAR										
14...	88	159	7.0	25.5	15.5	650	8.5	91	61	5
APR										
11...	8.7	380	9.1	33.0	27.5	40	13.8	177	160	--
MAY										
10...	8.3	630	8.4	23.0	20.0	85	9.7	110	300	--
JUN										
06...	12	534	8.0	33.0	33.0	40	8.6	119	260	16

07047575 TYRONZA RIVER DITCH NO. 40 NEAR CHELFORD, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
19...	70	22	13	10	.3	3.2	333	0	273	4.2
AUG										
17...	86	25	--	--	--	--	374	0	307	6.0
SEP										
14...	76	24	--	--	--	--	366	6	310	2.4
OCT										
12...	74	27	12	8	.3	4.0	359	0	294	4.6
NOV										
09...	54	14	--	--	--	--	232	0	190	4.7
DEC										
13...	39	12	--	--	--	--	156	0	128	4.0
JAN , 1977										
18...	62	17	9.6	8	.3	4.5	264	0	217	42
FEB										
14...	27	8.0	--	--	--	--	92	0	75	9.3
MAR										
14...	17	4.5	--	--	--	--	68	0	56	11
APR										
11...	41	14	16	17	.6	4.6	180	--	--	.2
MAY										
10...	79	26	--	--	--	--	380	--	--	2.4
JUN										
06...	71	20	--	--	--	--	298	0	244	4.8

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
19...	11	3.4	16	302	325	303	.41	15.7	61	386
AUG										
17...	--	--	--	292	222	--	.40	20.6	126	348
SEP										
14...	--	--	--	320	343	--	.44	7.86	43	386
OCT										
12...	12	5.3	9.5	303	260	321	.41	1.55	72	334
NOV										
09...	--	--	--	258	256	--	.35	4.95	29	285
DEC										
13...	--	--	--	203	286	--	.28	7.51	188	474
JAN , 1977										
18...	23	4.9	11	279	289	262	.38	--	48	337
FEB										
14...	--	--	--	152	229	--	.21	23.8	401	630
MAR										
14...	--	--	--	96	270	--	.13	22.9	940	1210
APR										
11...	30	8.0	10	204	249	--	--	4.81	74	323
MAY										
10...	--	--	--	373	416	--	--	8.40	141	557
JUN										
06...	--	--	--	307	325	--	.42	10.1	64	389

07047575 TYRONZA RIVER DITCH NO. 40 NEAR CHELFORD, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
19...	.01	1.1	1.1	4.9	.17	--	--	2000	200	--
AUG										
17...	.03	.70	.73	3.2	.22	--	7	--	--	--
SEP										
14...	.01	.34	.35	1.6	.13	--	5	--	--	23
OCT										
12...	.02	.74	.76	3.4	.16	--	--	2200	140	--
NOV										
09...	.28	.69	.97	4.3	.10	--	--	--	--	--
DEC										
13...	1.2	1.2	2.4	11	.31	.12	--	--	--	--
JAN , 1977										
18...	1.5	.24	1.7	7.7	.08	.07	3	1600	240	5.6
FEB										
14...	1.5	2.3	3.8	17	.63	.13	--	--	--	--
MAR										
14...	.88	2.8	3.7	16	.86	.55	--	--	--	--
APR										
11...	.01	2.1	2.1	9.3	.28	.12	4	1800	170	10
MAY										
10...	.00	2.0	2.0	8.9	.35	.29	--	--	--	--
JUN										
06...	.01	.82	.83	3.7	.27	.13	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOTTOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
14...	80	.0	5	12	10	5.9	.0	.4	.0	.0	.0	.0
AUG , 1977												
10...	18	.0	0	.9	.4	.0	.0	.1	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOTTOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
14...	.0	.0	.0	.0	.0	.0	0	.0	.00	.24	.00
AUG , 1977											
10...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

07047585 TYRONZA RIVER DITCH NO. 6 NEAR LEPANTO, AR

LOCATION.--Lat 35°35'52", long 90°16'11", in NE¼ sec.7, T.11 N., R.8 E., Mississippi County, Hydrologic Unit 08020203, at bridge on county road 3.6 mi (5.8 km) southeast of Lepanto.

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	OIL-GREASE (SEVERITY) (01300)	GAS BUBBLES (SEVERITY) (01310)	FLOATING SLUDGE (SEVERITY) (01315)	ATMOSPHERIC ODOR (SEVERITY) (01330)	DEAD FISH (SEVERITY) (01340)	FLOATING DEBRIS (SEVERITY) (01345)	TURBIDITY (SEVERITY) (01350)	FLOATING OR SOLID ICE COVER (SEVERITY) (01355)
JUL , 1976										
19...	1028	1028	0	0	0	0	0	1	1	--
AUG										
17...	1028	1028	0	0	0	0	0	1	2	--
SEP										
14...	1028	1028	0	0	0	0	0	1	0	--
OCT										
12...	1028	1028	1	0	0	0	0	1	3	--
NOV										
09...	1028	1028	0	1	0	1	0	1	3	--
DEC										
13...	1028	1028	0	0	0	0	0	1	3	--
JAN , 1977										
18...	1028	1028	--	--	--	--	--	--	--	3
FEB										
14...	1028	1028	0	0	1	0	0	3	3	--
MAR										
14...	1028	1028	0	0	0	3	0	4	4	--
APR										
11...	1028	1028	0	0	0	0	0	2	2	--
MAY										
11...	1028	1028	0	0	0	0	0	2	2	--
JUN										
06...	1028	1028	0	0	0	0	0	2	2	--

DATE	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)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
JUL , 1976										
19...	26	590	7.9	32.0	29.5	25	9.1	84	260	4
AUG										
17...	114	140	7.8	31.5	26.5	90	3.9	49	56	3
SEP										
14...	11	568	8.0	30.0	25.5	20	6.3	79	260	0
OCT										
12...	17	530	8.1	27.0	20.5	35	8.2	93	270	15
NOV										
09...	14	570	7.8	18.0	11.0	9	10.1	94	280	43
DEC										
13...	73	371	7.8	7.5	6.0	55	9.6	80	150	10
JAN , 1977										
18...	24	500	7.2	-7.5	.0	20	--	--	200	0
FEB										
14...	81	270	7.6	8.0	8.0	210	6.8	--	96	17
MAR										
14...	167	80	7.0	26.0	15.0	600	8.2	88	30	2
APR										
11...	16	550	8.3	33.5	25.5	40	--	--	230	0
MAY										
11...	17	614	8.0	22.5	18.0	50	9.2	100	280	1
JUN										
06...	10	533	8.2	39.0	32.0	35	9.4	129	280	11

07047585 TYRONZA RIVER DITCH NO. 6 NEAR LEPANTO, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
19...	73	20	19	13	.5	5.1	312	0	256	6.3
AUG										
17...	16	3.8	--	--	--	--	64	0	52	1.6
SEP										
14...	71	21	--	--	--	--	328	0	269	5.2
OCT										
12...	74	21	21	14	.6	4.9	312	0	256	4.0
NOV										
09...	77	22	--	--	--	--	292	0	239	7.4
DEC										
13...	41	12	--	--	--	--	173	0	142	4.4
JAN , 1977										
18...	55	15	22	19	.7	6.3	248	0	203	25
FEB										
14...	26	7.6	--	--	--	--	96	0	79	3.9
MAR										
14...	8.0	2.4	--	--	--	--	34	0	28	5.4
APR										
11...	63	18	19	15	.5	5.3	290	0	238	2.3
MAY										
11...	76	22	--	--	--	--	340	0	280	5.4
JUN										
06...	76	22	--	--	--	--	328	0	269	3.3

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
19...	48	7.9	21	342	361	348	.47	24.1	54	415
AUG										
17...	--	--	--	83	111	--	.11	25.5	167	278
SEP										
14...	--	--	--	308	361	--	.42	9.15	27	388
OCT										
12...	38	15	17	323	328	345	.44	14.9	76	404
NOV										
09...	--	--	--	333	355	--	.45	12.6	22	377
DEC										
13...	--	--	--	219	227	--	.30	43.4	97	324
JAN , 1977										
18...	34	18	11	302	334	283	.41	19.7	24	358
FEB										
14...	--	--	--	163	203	--	.22	35.8	297	500
MAR										
14...	--	--	--	52	192	--	.07	23.4	928	1120
APR										
11...	36	8.4	12	304	323	305	.41	13.5	83	406
MAY										
11...	--	--	--	342	391	--	.47	15.7	80	471
JUN										
06...	--	--	--	339	363	--	.46	9.15	48	411

07047585 TYRONZA RIVER DITCH NO. 6 NEAR LEPANTO, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
19...	.33	.91	1.2	5.5	.19	--	--	1800	390	--
AUG										
17...	.42	.98	1.4	6.2	.33	--	9	--	--	--
SEP										
14...	.01	.40	.41	1.8	.16	--	5	--	--	4.1
OCT										
12...	.06	.37	.43	1.9	.23	--	--	2500	220	--
NOV										
09...	.29	.95	1.2	5.5	.12	--	--	--	--	--
DEC										
13...	.98	1.4	2.4	11	.32	.15	--	--	--	--
JAN , 1977										
18...	.72	.64	1.4	6.0	.41	.16	5	2200	420	8.0
FEB										
14...	1.5	2.7	4.2	19	.66	.14	--	--	--	--
MAR										
14...	.88	3.2	4.1	18	1.2	.81	--	--	--	--
APR										
11...	.03	.82	.85	3.8	.21	.14	3	2000	270	5.5
MAY										
11...	.05	1.1	1.2	5.1	.21	.15	--	--	--	--
JUN										
06...	.01	.52	.53	2.3	.21	.11	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOTTOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
14...	45	.0	0	.5	.3	.7	.0	.0	.0	.0	.0	.0
AUG , 1977												
10...	11	17	4	.8	6.8	.6	.0	.0	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOTTOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
14...	.0	.0	.0	.0	.0	.0	0	.0	.00	.00	.00
AUG , 1977											
10...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

07047590 TYRONZA RIVER NEAR SPEAR LAKE, AR

LOCATION.--Lat 35°32'25", long 90°17'26", in SE¼ sec.25, T.11 N., R.7 E., Poinsett County, Hydrologic Unit 08020203, at bridge on county road 1.9 mi (3.1 km) southeast of Spear Lake.

DRAINAGE AREA.--348 mi^2 (901 km^2).

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	OIL-GREASE (SEVERITY) (01300)	GAS BUBBLES (SEVERITY) (01310)	FLOATING SLUDGE (SEVERITY) (01315)	ATMOSPHERIC ODOR (SEVERITY) (01330)	DEAD FISH (SEVERITY) (01340)	FLOATING DEBRIS (SEVERITY) (01345)	TURBIDITY (SEVERITY) (01350)	FLOATING OR SOLID ICE COVER (SEVERITY) (01355)
JUL , 1976										
19...	1028	1028	0	0	0	0	0	1	2	--
AUG										
18...	1028	1028	0	0	0	0	0	0	2	--
SEP										
14...	1028	1028	0	0	0	0	0	0	1	--
OCT										
12...	1028	1028	0	1	0	1	0	1	3	--
NOV										
09...	1028	1028	0	0	0	0	0	1	3	--
DEC										
14...	1028	1028	0	0	1	0	0	1	2	--
JAN , 1977										
18...	1028	1028	--	--	--	--	--	--	--	3
FEB										
14...	1028	1028	0	0	0	0	0	0	3	--
MAR										
14...	1028	1028	0	0	0	0	0	2	4	--
APR										
11...	1028	1028	0	0	0	0	1	0	2	--
MAY										
10...	1028	1028	0	0	0	0	0	2	1	--
JUN										
06...	1028	1028	0	0	0	0	0	1	3	--

DATE	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)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
JUL , 1976										
19...	91	608	8.0	33.0	27.0	15	7.9	100	290	5
AUG										
18...	162	410	7.6	22.0	23.0	70	6.3	75	210	20
SEP										
14...	55	602	8.1	33.0	26.5	25	11.2	142	290	9
OCT										
12...	47	600	7.8	26.0	19.5	30	9.2	103	280	10
NOV										
09...	81	565	7.8	19.5	12.0	20	9.9	95	250	0
DEC										
14...	132	365	7.7	.5	2.5	65	11.6	88	160	21
JAN , 1977										
18...	109	440	7.0	-7.0	.0	20	--	--	190	4
FEB										
14...	273	261	7.5	12.5	8.5	320	9.1	81	100	42
MAR										
14...	627	95	7.3	22.0	13.0	700	8.6	92	33	2
APR										
11...	82	560	8.0	30.0	22.0	55	9.6	113	240	5
MAY										
10...	72	650	8.1	24.0	19.5	40	8.5	96	310	15
JUN										
06...	39	547	8.1	34.5	30.5	40	8.5	113	260	20

07047590 TYRONZA RIVER NEAR SPEAR LAKE, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
19...	78	22	17	11	.4	3.7	342	0	281	5.5
AUG										
18...	58	16	--	--	--	--	232	0	190	9.3
SEP										
14...	77	24	--	--	--	--	344	0	282	4.4
OCT										
12...	75	23	19	13	.5	4.0	332	0	272	8.4
NOV										
09...	67	19	--	--	--	--	308	0	253	7.8
DEC										
14...	44	13	--	--	--	--	174	0	143	5.6
JAN , 1977										
18...	49	16	17	16	.5	4.8	227	0	186	36
FEB										
14...	28	8.3	--	--	--	--	76	0	62	3.8
MAR										
14...	8.9	2.7	--	--	--	--	38	0	31	3.0
APR										
11...	66	19	18	14	.5	4.9	290	0	238	4.6
MAY										
10...	83	25	--	--	--	--	360	0	300	4.6
JUN										
06...	72	20	--	--	--	--	293	0	240	3.7

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
19...	46	6.0	20	362	380	361	.49	88.9	21	401
AUG										
18...	--	--	--	197	275	--	.27	86.2	163	438
SEP										
14...	--	--	--	344	378	--	.47	51.5	67	445
OCT										
12...	40	9.4	19	348	318	353	.47	44.2	59	377
NOV										
09...	--	--	--	326	360	--	.44	71.3	50	410
DEC										
14...	--	--	--	230	244	--	.31	82.0	96	340
JAN , 1977										
18...	38	12	13	290	305	262	.39	85.3	45	350
FEB										
14...	--	--	--	160	213	--	.22	118	499	712
MAR										
14...	--	--	--	63	310	--	.09	107	1010	1320
APR										
11...	46	7.4	15	330	348	319	.45	73.8	120	468
MAY										
10...	--	--	--	379	424	--	.52	73.7	51	475
JUN										
06...	--	--	--	323	339	--	.44	34.0	78	417

07047590 TYRONZA RIVER NEAR SPEAR LAKE, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
19...	.10	.84	.94	4.2	.18	--	--	1300	140	--
AUG										
18...	.15	.96	1.1	4.9	.33	--	10	--	--	--
SEP										
14...	.01	.43	.44	1.9	.17	--	5	--	--	4.2
OCT										
12...	.03	.27	.30	1.3	.17	--	--	2500	260	--
NOV										
09...	.37	1.1	1.5	6.5	.20	--	--	--	--	--
DEC										
14...	.98	1.6	2.6	11	.33	.15	--	--	--	--
JAN , 1977										
18...	1.3	.65	2.0	8.6	.31	.16	8	2400	320	--
FEB										
14...	1.8	1.6	3.4	15	.67	.17	--	--	--	--
MAR										
14...	.91	3.4	4.3	19	1.2	.90	--	--	--	--
APR										
11...	.23	1.1	1.3	5.9	.23	.15	3	4000	260	4.8
MAY										
10...	.15	.61	.76	3.4	.20	.17	--	--	--	--
JUN										
06...	.01	1.1	1.1	4.9	.25	.15	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
14...	30	.0	0	.9	.9	8.3	.0	.0	.0	.0	.0	.0
AUG , 1977												
10...	15	.0	1	1.1	.5	.0	.0	.1	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
14...	.0	.0	.0	.0	.0	.0	0	.0	.00	.05	.00
AUG , 1977											
10...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

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, Hydrologic Unit 08020203, 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 mi² (1,380 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
13...	9827	9827	--	--	--	--	--	--	--	--	--
14...	9827	9827	492	7.9	16.0	5	7.2	1.7	130	--	--
NOV											
17...	9827	9827	568	8.0	7.0	0	9.3	2.1	--	--	--
18...	9827	9827	--	--	--	--	--	--	450	--	--
DEC											
08...	9827	9827	--	--	--	--	--	--	180	--	--
09...	9827	9827	556	7.9	4.0	5	11.6	2.1	--	--	270
FEB											
08...	9827	9827	469	7.7	1.0	5	11.8	3.9	--	--	--
09...	9827	9827	--	--	--	--	--	--	140	10	--
MAR											
09...	9827	9827	233	7.8	9.0	80	8.9	3.1	--	--	50
APR											
13...	9827	9827	524	8.2	17.0	10	8.1	5.5	--	--	--
JUN											
13...	9827	9827	--	--	--	--	--	--	--	--	--
14...	9827	9827	592	8.1	24.0	5	6.4	3.5	--	--	--
JUL											
10...	9827	9827	--	--	--	--	--	--	--	--	--
11...	9827	9827	--	--	--	--	--	--	--	--	--
12...	9827	9827	473	8.1	27.0	--	7.1	--	--	--	--
AUG											
01...	9827	9827	--	--	--	--	--	--	2900	--	--
02...	9827	9827	584	8.1	23.0	10	6.7	3.0	--	--	--
SEP											
19...	9827	9827	--	--	--	--	--	--	9400	--	--
20...	9827	9827	397	8.0	20.5	5	6.8	2.4	--	--	190

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	47
NOV											
17...	--	--	--	--	--	--	--	--	--	--	52
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
09...	16	--	42	--	40	19	3.7	310	0	254	41
FEB											
08...	--	--	--	--	--	--	--	--	--	--	52
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	0	--	6.2	--	7.7	6.9	7.4	110	0	90	14
APR											
13...	--	59	--	1.8	--	17	5.4	--	--	--	42
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	39
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	28
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	44
SEP											
19...	--	--	--	--	--	--	--	--	--	--	--
20...	--	45	--	16	--	11	5.0	--	--	--	37

07047700 TYRONZA RIVER NEAR TWIST, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	10	370	34	.88	--	--	.15	--	--	--	<10	2300
NOV												
17...	8.0	360	41	<.10	--	--	.08	--	--	--	<10	1900
DEC												
09...	8.0	349	12	<.10	--	--	.09	<3	<10	<3	<10	1500
FEB												
08...	8.5	289	30	.17	--	--	.16	--	--	--	<10	2100
MAR												
09...	4.0	285	310	1.1	--	--	.64	<3	<10	3	30	17800
APR												
13...	8.5	352	--	--	--	<.10	.21	<10	<10	--	--	--
JUN												
14...	7.5	378	--	--	<.05	.02	--	--	--	--	<10	--
JUL												
10...	--	--	--	--	--	--	--	--	--	--	20	4300
11...	--	--	--	--	--	--	--	--	--	--	--	--
12...	8.5	--	--	--	.01	.01	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
02...	9.0	369	89	.01	.00	.05	--	--	--	--	70	4500
SEP												
20...	8.0	--	72	.18	.05	--	.17	--	<10	<5	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
14...	<10	570	--	20	--	--	--	--	--	--	--	--
NOV												
17...	10	480	--	80	--	--	--	--	--	--	--	--
DEC												
09...	<10	370	.6	130	--	--	--	--	--	--	--	--
FEB												
08...	<10	470	--	90	--	--	--	--	--	--	--	--
MAR												
09...	<10	340	--	290	--	--	--	--	--	--	--	--
APR												
13...	<10	390	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUN												
14...	<10	320	--	20	.00	.00	.00	.00	.00	.00	.00	0
JUL												
10...	--	220	--	<10	--	--	--	--	--	--	--	--
11...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	.00	--	.00	.00	.00	0
02...	--	340	--	--	--	--	--	--	--	--	--	--
SEP												
20...	<10	370	--	10	--	--	--	--	--	--	--	--

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

LOCATION.--Lat 35°16'23", long 90°33'33", in NE¼SE¼ sec.33, T.8 N., R.5 E., Cross County, Hydrologic Unit 08020203, 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, 6,475 mi^2 (16,770 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. January 1930 to date in reports of Mississippi River Commission. Gage-height records since December 1892 in reports of Mississippi River Commission and National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 175.30 ft (53.431 m) above mean sea level. Prior to Sept. 10, 1948, nonrecording gage, and Sept. 11, 1948 to Apr. 24, 1968, water-stage recorder, at site 1.8 mi (2.9 km) downstream at present datum.

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). Some regulation by Wappapello Lake (Missouri), 207 mi (330 km) upstream since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm^3). Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--46 years, 2,807 ft^3/s (79.5 m^3/s), 2,034,000 acre-ft/yr (2,508 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,300 ft^3/s (716 m^3/s) Jan. 31, 1930; maximum gage height, 34.2 ft (10.42 m) Feb. 4-6, 1937, backwater from Mississippi River; minimum discharge, 174 ft^3/s (4.93 m^3/s) Nov. 12, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1892, 41.6 ft (12.68 m) Apr. 4-6, 1897 (not comparable to stages since 1930 due to levee construction).

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 10,600 ft^3/s (300 m^3/s) Mar. 31; maximum gage height, 23.50 ft (7.163 m) Apr. 1; minimum discharge, 427 ft^3/s (12.1 m^3/s) Oct. 22, gage height, 2.94 ft (0.896 m).

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 8,600 ft^3/s (244 m^3/s) Feb. 20; maximum gage height, 17.06 ft (5.200 m) Apr. 1; minimum discharge, 332 ft^3/s (9.40 m^3/s) Nov. 24, gage height, 2.71 ft (0.826 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	1080	552	2180	2310	2750	2740	10100	2790	2910	1560	1450	1310
2	849	566	1990	2230	4690	2600	9550	3290	2680	1510	1530	1310
3	699	576	1800	2970	5720	2560	8930	3660	2550	1480	1620	1280
4	643	740	1280	3930	6040	2600	8060	3820	2330	1450	1970	1210
5	630	943	908	3990	6240	2620	7030	3430	2200	1420	2120	1170
6	637	987	799	3230	6520	2620	6150	3240	2180	1350	2480	1160
7	647	912	758	2140	6220	2580	5460	3530	2040	1300	2570	1120
8	657	802	727	1580	5400	2470	4740	3340	1920	1280	2500	1140
9	656	723	697	2640	4440	2390	4040	3740	1860	1280	2590	1160
10	657	726	684	3830	3630	2530	3980	4210	1830	1320	2670	1200
11	658	1650	690	4980	3140	2880	3880	4350	1870	1430	2660	1380
12	660	2520	728	5090	2900	5260	3890	4460	1890	1580	2560	1740
13	659	2330	785	4420	2760	8800	3860	3860	1840	1690	2440	1720
14	660	1660	762	3220	2690	9860	3780	3480	1790	1710	2230	1660
15	667	1140	776	2040	2640	10200	3700	3460	1780	1720	1910	1710
16	665	891	817	1350	2610	10100	3660	3460	1760	1760	1710	1770
17	671	800	768	1060	2620	9950	4010	3430	1780	1920	1600	1770
18	675	722	683	971	2570	9930	4260	3300	1770	1940	1550	1820
19	606	731	627	1010	2460	10000	4400	3070	1720	1760	1540	2000
20	544	1480	585	1230	2330	9440	4310	2800	1680	1610	1830	2560
21	484	2060	564	1380	2190	8590	4000	2530	1650	1550	2230	2700
22	428	1680	547	1220	2120	7410	3500	2290	1620	1520	2270	2900
23	437	1160	533	1030	3980	6180	3050	2160	1600	1530	2250	2800
24	444	1660	546	1420	6590	5280	2430	2300	1580	1500	2170	2550
25	454	4930	721	1800	7420	4380	2160	2460	1560	1550	2000	2360
26	462	6050	918	1940	6900	3660	2090	2510	1520	1560	1700	2230
27	473	5750	980	2010	5480	3960	2160	2540	1500	1540	1500	2140
28	486	4630	983	2080	3840	6100	2250	2720	1510	1520	1420	2020
29	548	3340	1550	2010	---	8700	2290	3280	1630	1500	1370	1920
30	549	2540	2390	1930	---	9840	2450	3440	1640	1470	1320	1760
31	545	---	2390	1960	---	10500	---	3240	---	1430	1320	---
TOTAL	18930	55251	31166	73001	116890	186730	134170	100190	56190	47740	61080	53570
MEAN	611	1842	1005	2355	4175	6024	4472	3232	1873	1540	1970	1786
MAX	1080	6050	2390	5090	7420	10500	10100	4460	2910	1940	2670	2900
MIN	428	552	533	971	2120	2390	2090	2160	1500	1280	1320	1120
AC-FT	37550	109600	61820	144800	231900	370400	266100	198700	111500	94690	121200	106300

CAL YR 1974 TOTAL 1119604 MEAN 3067 MAX 12300 MIN 428 AC-FT 2221000
WTR YR 1975 TOTAL 934908 MEAN 2561 MAX 10500 MIN 428 AC-FT 1854000

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1540	468	2480	2620	1410	2540	8150	1510	3450	4200	1750	1300
2	1410	459	3360	2530	1220	2310	7410	1480	3510	3900	1680	1290
3	1330	456	3310	3560	1060	2340	6040	1440	3120	5000	1540	1290
4	1280	474	2770	4070	964	2340	4800	1410	2660	5800	1440	1310
5	1240	493	1930	3630	965	2600	3870	1390	2570	6900	1410	1270
6	1200	629	1700	3000	1160	3160	3340	1400	2490	6000	1360	1180
7	1180	944	3000	2500	1300	3250	2910	1390	2400	5000	1300	1110
8	1150	1550	3640	2130	1130	3420	2630	1380	2300	4200	1280	993
9	1090	1730	3400	1950	952	5380	2420	1380	2210	3600	1270	698
10	815	1460	2940	1720	843	7000	2280	1330	2090	3200	1270	775
11	632	1130	2810	1410	865	7060	2180	1270	1840	3000	1250	1040
12	581	992	2770	1170	892	6240	2120	1230	1650	2800	1270	1100
13	566	860	2620	1000	923	5130	2070	1170	1530	2700	1280	1110
14	570	764	2250	1430	955	4140	2040	1090	1460	2550	1290	1120
15	568	669	2050	1670	998	3310	1970	888	1410	2540	1300	1110
16	552	616	2360	1640	1040	2810	1920	771	1650	2370	1430	1100
17	533	562	2760	1540	1290	2510	1870	722	2040	2330	1710	1090
18	518	490	2310	1480	5220	2300	1820	704	3000	2520	1670	1080
19	496	453	2070	1420	8040	2160	1760	702	5460	2580	1540	1080
20	482	438	1990	1470	8530	2040	1700	704	6470	2510	1400	1070
21	470	406	1810	1480	8360	1970	1650	794	6370	2390	1340	1050
22	458	378	1290	1240	8090	2020	1610	789	5860	2250	1370	1000
23	461	353	844	969	7410	2110	1590	712	5050	2060	1380	922
24	464	341	676	925	6090	2020	1600	710	5340	1800	1380	638
25	485	368	709	1140	4690	1880	1680	705	5700	1670	1360	622
26	488	392	2320	2650	4490	1830	1870	699	6000	1620	1330	789
27	487	552	3990	3860	3250	1840	1910	710	6000	1640	1310	1120
28	491	706	4230	3740	2980	1830	1720	1040	5400	1830	1300	1190
29	487	676	3560	2900	2740	3120	1580	2290	4900	1910	1300	936
30	478	1100	3120	2140	---	6550	1530	3850	4600	1860	1290	650
31	477	---	3010	1680	---	8020	---	3960	---	1740	1290	---
TOTAL	22979	20909	78079	64664	87857	105230	80040	39620	108530	94470	43090	31033
MEAN	741	697	2519	2086	3030	3395	2668	1278	3618	3047	1390	1034
MAX	1540	1730	4230	4070	8530	8020	8150	3960	6470	6900	1750	1310
MIN	458	341	676	925	843	1830	1530	699	1410	1620	1250	622
AC-FT	45580	41470	154900	128300	174300	208700	158800	78590	215300	187400	85470	61550

CAL YR 1975 TOTAL 951528 MEAN 2607 MAX 10500 MIN 341 AC-FT 1887000
WTR YR 1976 TOTAL 776501 MEAN 2122 MAX 8530 MIN 341 AC-FT 1540000

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

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 analyzed by the Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 546 micromhos Oct. 4, 1976; minimum, 46 micromhos Apr. 3, 1975.
WATER TEMPERATURES: Maximum, 33.0°C July 17, 1977; minimum, 0.0°C on several days during January 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 546 micromhos Oct. 4; minimum, 89 micromhos Mar. 6.
WATER TEMPERATURES: Maximum, 33.0°C July 17; minimum, 0.0°C on several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	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)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
05...	1028	1028	505	7.6	20.0	7.1	81	--	B83	120	250
NOV											
03...	1028	1028	315	7.7	12.0	8.9	86	--	--	B47	140
DEC											
01...	1028	1028	384	7.8	4.5	11.6	92	--	370	110	150
JAN											
19...	1028	1028	325	7.5	.5	--	--	--	B160	720	160
FEB											
07...	1028	1028	405	7.5	3.4	12.5	97	--	B11	B28	180
MAR											
07...	1028	1028	101	6.9	10.0	9.2	84	--	B470	1900	37
29...	1028	1028	305	7.9	17.0	7.6	71	39	B100	B190	130
MAY											
02...	1028	1028	410	8.0	22.0	7.2	78	--	B100	B150	200
JUN											
01...	1028	1028	440	7.7	27.0	3.8	48	--	B400	2300	160
28...	1028	1028	239	7.6	25.0	5.6	69	--	B2800	5400	110
AUG											
15...	1028	1028	372	7.8	27.0	3.9	50	--	2600	B12000	180
SEP											
12...	1028	1028	305	8.1	26.0	6.0	75	--	B100	4300	140

DATE	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											
05...	8	71	18	11	9	.3	2.6	297	0	244	12
NOV											
03...	12	37	12	8.8	12	.3	3.5	158	0	130	5.0
DEC											
01...	6	35	16	11	13	.4	3.2	180	0	148	4.6
JAN											
19...	18	45	12	9.0	11	.3	3.4	175	0	144	8.9
FEB											
07...	12	52	13	9.5	10	.3	3.1	209	0	171	11
MAR											
07...	9	10	3.0	2.5	12	.2	2.8	35	0	29	7.0
29...	10	38	9.6	6.1	9	.2	2.6	152	0	120	3.1
MAY											
02...	23	60	13	8.7	8	.3	2.9	220	0	180	3.5
JUN											
01...	16	44	11	10	12	.4	3.2	170	0	140	5.4
28...	16	30	7.6	5.8	10	.2	2.6	110	0	90	4.4
AUG											
15...	9	51	13	8.9	9	.3	3.5	210	0	170	5.3
SEP											
12...	9	38	11	8.5	11	.3	3.1	160	0	130	2.0

B PLATE COUNT OUTSIDE IDEAL RANGE.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
OCT											
05...	22	5.1	.2	19	301	295	.41	.06	.41	.47	2.1
NOV											
03...	20	7.9	.1	14	190	181	.26	.43	.94	1.4	6.1
DEC											
01...	26	6.2	.1	17	183	203	.25	.27	.33	.60	2.7
JAN											
19...	25	5.7	.1	13	217	200	.30	1.7	.90	2.6	12
FEB											
07...	26	5.6	.1	13	227	225	.31	.50	.47	.97	4.3
MAR											
07...	10	3.9	.1	5.6	82	55	.11	2.2	3.0	5.2	23
29...	20	5.7	.1	15	188	172	.26	.28	.72	1.0	4.4
MAY											
02...	23	6.1	.2	20	249	242	.34	.70	.80	1.5	6.6
JUN											
01...	29	5.0	.0	6.7	201	193	.27	.76	3.7	4.5	20
28...	18	3.9	.2	14	138	136	.19	1.0	.99	2.0	8.8
AUG											
15...	19	5.0	.2	14	225	218	.31	.16	4.1	4.3	19
SEP											
12...	13	7.3	.2	15	175	175	.24	.11	.78	.89	3.9

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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											
05...	.22	4	2	2	<10	<10	0	0	0	0	<50
NOV											
03...	.26	--	--	--	--	--	--	--	--	--	--
DEC											
01...	.14	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.16	3	2	1	<10	<10	0	0	0	0	<50
FEB											
07...	.10	--	--	--	--	--	--	--	--	--	--
MAR											
07...	.88	--	--	--	--	--	--	--	--	--	--
29...	.37	6	5	1	<10	<9	1	0	0	0	<50
MAY											
02...	.30	--	--	--	--	--	--	--	--	--	--
JUN											
01...	1.1	--	--	--	--	--	--	--	--	--	--
28...	.55	6	--	3	<10	<9	1	20	--	0	<50
AUG											
15...	.34	--	--	--	--	--	--	--	--	--	--
SEP											
12...	.28	--	--	--	--	--	--	--	--	--	--

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT												
05...	<48	2	10	9	1	3400	20	<100	<100	0	290	170
DEC												
01...	--	--	--	--	--	--	20	--	--	--	--	--
JAN												
19...	<50	0	10	6	4	2400	10	<100	<98	2	370	70
MAR												
29...	<50	0	30	26	4	7800	40	<100	<99	1	340	320
JUN												
28...	<50	0	40	34	6	12000	70	<100	<100	0	420	--
AUG												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT											
05...	120	.0	.0	.0	0	0	0	30	20	10	--
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	300	.0	.0	.0	0	0	0	40	20	20	4.2
MAR											
29...	20	.0	--	.0	1	1	0	50	30	20	8.9
JUN											
28...	8	1.6	--	.0	1	0	1	70	60	8	11
AUG											
15...	--	--	--	--	--	--	--	--	--	--	7.2
SEP											
12...	--	--	--	--	--	--	--	--	--	--	5.5

DATE	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)	TOTAL ENDRIN (UG/L) (39390)
OCT									
05...	--	--	--	--	--	--	--	--	--
NOV									
03...	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC									
01...	--	--	--	--	--	--	--	--	--
JAN									
19...	--	--	--	--	--	--	--	--	--
FEB									
07...	ND	ND	ND	ND	ND	ND	--	ND	ND
MAR									
07...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
MAY									
02...	ND	.49	ND	ND	ND	ND	ND	ND	ND
JUN									
01...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG									
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEP									
12...	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	TOTAL PARA-THION (UG/L) (39540)
OCT									
05...	--	--	--	--	--	--	--	--	--
NOV									
03...	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC									
01...	--	--	--	--	--	--	--	--	--
JAN									
19...	--	--	--	--	--	--	--	--	--
FEB									
07...	--	ND	ND	ND	--	ND	--	--	--
MAR									
07...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
MAY									
02...	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN									
01...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG									
15...	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEP									
12...	--	--	--	--	--	--	--	--	--

DATE	SIMA-ZINE TOTAL COUL-SON COND. (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								
05...	--	--	--	--	--	--	81	99
NOV								
03...	ND	ND	ND	ND	ND	ND	93	98
DEC								
01...	--	--	--	--	--	--	58	26
JAN								
19...	--	--	--	--	--	--	40	27
FEB								
07...	ND	ND	--	ND	ND	ND	61	99
MAR								
07...	--	--	--	--	--	--	802	99
29...	--	--	--	--	--	--	246	95
MAY								
02...	ND	ND	ND	ND	ND	ND	279	98
JUN								
01...	--	--	--	--	--	--	1510	100
28...	--	--	--	--	--	--	484	98
AUG								
15...	ND	ND	ND	ND	ND	ND	132	93
SEP								
12...	--	--	--	--	--	--	142	98

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

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

PHYTOPLANKTON

DATE	OCT 5,76		NOV 3,76		DEC 1,76		JAN 19,77		FEB 7,77		MAR 7,77	
TIME	0000		1235		0930		0900		1245		1100	
TOTAL CELLS/ML	3500		10000		14000		9300		11000		2000	
DIVERSITY: DIVISION	1.2		1.0		1.4		1.5		1.1		0.9	
.CLASS	1.2		1.0		1.4		1.5		1.1		0.9	
..ORDER	1.8		1.2		1.6		2.2		2.0		1.4	
...FAMILY	2.2		1.2		1.6		2.7		2.4		1.8	
....GENUS	2.5		1.3		1.9		2.8		2.4		1.8	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE												
....GOLENKINIA	--	-	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	990	11	690	6	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	170	1	250	3	99	1	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	1200	13	*	0	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	99	1	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	930#	26	420	4	1400	10	380	4	200	2	420#	21
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	190	2	1500	13	--	-
...PHACOTACEAE	--	-	--	-	--	-	--	-	--	-	--	-
....PTEROMONAS	--	-	--	-	--	-	--	-	300	3	140	7
...VOLVOCACEAE												
....GONIUM	--	-	--	-	--	-	--	-	400	4	--	-
....PANDORINA	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....COSCINODISCUS	--	-	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	470	13	520	5	2300#	16	1300	14	3200#	28	140	7
....MELOSIRA	470	13	800	8	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	1800	13	--	-	--	-	--	-
..PENNALES												
...CYMBELLACEAE												
....CYMBELLA	--	-	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	--	-	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....SYNEDRA	930#	26	--	-	--	-	130	1	--	-	--	-
...NAVICULACEAE												
....GYROSIGMA	--	-	--	-	--	-	*	0	--	-	--	-
....NAVICULA	--	-	--	-	--	-	--	-	--	-	140	7
....NEIDIUM	--	-	--	-	--	-	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	*	0	--	-
...NITZSCHIACEAE												
....NITZSCHIA	470	13	520	5	570	4	320	3	4500#	40	1100#	57
...SURIRELLACEAE												
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE												
..HETEROCOCCALES												
...CENTRITHACTACEAE												
....CENTRITHACTUS	--	-	--	-	--	-	--	-	--	-	--	-
...CHLOROTHECIACEAE												
....OPHIOCYTIUM	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

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

PHYTOPLANKTON

DATE TIME	OCT 5,76 0000		NOV 3,76 1235		DEC 1,76 0930		JAN 19,77 0900		FEB 7,77 1245		MAR 7,77 1100	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROCOCCALES												
...CHROCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	280	8	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	*	0	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	8000#	77	7500#	54	2800#	30	99	1	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
..CHROCOCCALES												
...CHROCOCCACEAE												
....GOMPHOSPHAERIA	--	-	--	-	--	-	1800#	19	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.CRYPTOPHYCEAE												
..CRYPTOMONIDALES												
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	190	2	*	0	--	-	99	1	--	-
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	99	1	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..PERIDINIALES												
...GLENODINIACEAE												
....GLENODINIUM	--	-	--	-	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

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

PHYTOPLANKTON

DATE	MAY 2,77	JUN 1,77	JUN 28,77	AUG 15,77	SEP 12,77
TIME	1345	1400	0740	1130	1230
TOTAL CELLS/ML	3800	2300	11000	19000	5800
DIVERSITY: DIVISION	1.1	1.3	0.4	1.6	1.3
.CLASS	1.1	1.3	0.4	1.7	1.3
..ORDER	1.5	1.5	0.7	2.3	2.0
...FAMILY	1.8	2.3	1.1	2.8	2.7
....GENUS	1.8	2.4	1.1	0.0	3.5

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	*	0	--	-
...COELASTRACEAE										
....COELASTRUM	400	11	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	110	1	--	-	270	5
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	370	2	--	-
....MICRACTINIUM	42	1	--	-	--	-	370	2	39	1
...OOCYSTACEAE										
....ANKISTRODESMUS	28	1	--	-	--	-	180	1	39	1
....DICTYOSPHAERIUM	--	-	--	-	--	-	920	5	120	2
....KIRCHNERIELLA	--	-	--	-	--	-	180	1	49	1
....OOCYSTIS	--	-	--	-	--	-	650	3	39	1
....WESTELLA	--	-	--	-	--	-	--	-	39	1
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	740	4	39	1
....CRUCIGENIA	--	-	--	-	--	-	1100	6	--	-
....SCENEDESMUS	84	2	160	7	57	1	1200	6	510	9
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	*	0	--	-	--	-	--	-	--	-
...PHACOTACEAE	--	-	--	-	--	-	180	1	--	-
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE										
....GONIUM	--	-	--	-	--	-	--	-	--	-
....PANDORINA	--	-	*	0	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	--	-	*	0	--	-
....CYCLOTELLA	*	0	14	1	--	-	1900	10	39	1
....MELOSIRA	70	2	41	2	110	1	1100	6	400	7
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...CYMBELLACEAE										
....CYMBELLA	--	-	14	1	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	14	1	--	-	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....GYROSIGMA	--	-	41	2	--	-	--	-	--	-
....NAVICULA	56	1	14	1	--	-	*	0	49	1
....NEIDIUM	*	0	14	1	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	56	1	450#	20	430	4	1000	5	180	3
...SURIRELLACEAE										
....CYMATOPLEURA	28	1	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	27	1	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	--	-	180	1	--	-
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CENTRITRACTACEAE										
....CENTRITRACTUS	--	-	--	-	--	-	*	0	--	-
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	--	-	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

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

PHYTOPLANKTON

DATE TIME	MAY 2,77 1345		JUN 1,77 1400		JUN 28,77 0740		AUG 15,77 1130		SEP 12,77 1230	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	220	6	--	-	--	-	3000#	15	590	10
....ANACYSTIS	--	-	--	-	400	4	740	4	1900#	33
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	440#	20	800	7	--	-	400	7
....APHANIZOMENON	--	-	--	-	--	-	--	-	320	6
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	920	5	200	3
....OSCILLATORIA	2700#	70	960#	43	9200#	82	4200#	21	360	6
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	98	2
..CHROCOCCALES										
...CHROCOCCACEAE										
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	56	1	--	-	--	-	--	-	*	0
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	42	1	41	2	*	0	--	-	29	1
....PHACUS	--	-	--	-	--	-	--	-	*	0
....TRACHELOMONAS	*	0	14	1	*	0	*	0	*	0
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	218	384	472	231	430	294	340	431	292	423	309
2	515	249	495	465	283	337	256	390	232	289	446	335
3	531	291	506	534	328	347	266	325	336	296	461	336
4	546	326	506	520	369	136	157	334	365	295	482	361
5	539	320	515	534	387	102	157	336	292	281	490	380
6	504	340	514	534	381	89	165	333	329	280	490	403
7	464	376	516	535	392	97	164	336	362	280	496	334
8	426	415	532	535	402	95	174	341	424	271	497	300
9	432	406	522	534	411	110	186	349	446	278	503	297
10	436	426	511	520	430	181	205	333	470	290	509	305
11	430	419	501	512	441	207	198	378	496	283	513	308
12	428	440	476	---	360	162	206	399	499	311	516	309
13	428	434	465	535	232	103	218	374	498	278	516	314
14	426	435	433	514	207	109	229	386	507	277	452	320
15	426	451	423	478	247	120	235	392	406	294	321	280
16	426	468	433	403	281	110	256	394	463	265	373	304
17	427	480	452	341	339	125	285	415	442	248	410	376
18	426	500	467	355	376	154	274	435	464	262	462	403
19	430	510	411	348	397	173	293	460	455	289	434	358
20	430	508	403	381	430	194	298	486	265	307	454	220
21	426	519	423	426	446	224	307	494	318	322	457	218
22	431	521	439	442	461	246	315	494	364	339	450	220
23	431	527	465	442	450	260	338	488	309	362	284	229
24	426	534	488	442	456	270	338	441	302	366	279	170
25	366	536	494	381	458	264	338	430	378	363	224	165
26	182	526	503	335	468	288	303	452	310	356	247	195
27	157	527	515	259	388	286	262	383	320	387	261	196
28	155	527	520	192	410	288	258	233	230	371	275	189
29	192	505	518	163	---	292	293	262	276	348	278	138
30	225	459	521	164	---	296	322	277	285	378	284	122
31	234	---	526	194	---	306	---	323	---	384	301	---
MEAN	400	440	480	416	374	206	253	381	376	311	406	280

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	10.0	5.5	0.5	1.5	12.0	17.5	24.0	27.5	29.5	29.5	30.5
2	23.5	10.0	6.5	0.5	2.5	11.5	18.5	21.5	26.0	30.0	30.5	31.0
3	24.0	11.0	7.0	2.0	4.0	11.0	17.0	21.5	27.0	30.5	30.0	31.0
4	25.0	11.0	7.5	3.0	6.0	11.0	16.5	22.0	29.0	30.0	30.0	31.0
5	22.5	9.0	7.5	4.0	6.5	10.5	15.0	23.5	27.5	30.0	30.0	31.0
6	21.5	11.0	8.0	3.5	6.0	11.0	15.0	24.5	30.0	31.0	29.0	31.0
7	21.0	10.0	6.5	2.5	5.0	10.5	16.0	25.5	27.5	31.5	31.5	28.0
8	18.0	11.0	4.5	1.5	5.5	11.0	17.5	24.5	27.0	32.0	31.0	28.0
9	17.5	11.0	6.0	0.5	7.5	12.0	18.0	25.5	27.5	32.0	31.0	28.0
10	18.0	12.0	6.5	0.0	9.0	14.5	20.5	25.5	29.0	31.0	32.5	27.5
11	16.0	9.5	6.5	0.5	9.0	14.0	19.0	24.5	31.0	30.0	32.0	28.0
12	16.5	9.0	7.0	0.0	10.5	14.0	20.0	22.0	31.0	30.0	31.0	26.0
13	18.0	7.0	6.0	0.0	10.0	15.0	20.5	22.5	29.5	30.5	31.5	28.0
14	18.0	6.5	4.0	1.5	9.0	15.5	21.5	25.5	28.0	31.0	29.0	27.0
15	18.5	7.5	5.5	3.5	7.0	16.5	22.0	25.0	27.0	31.5	26.5	25.0
16	---	8.5	6.0	1.5	5.0	16.5	24.0	26.0	26.5	32.0	26.5	26.0
17	17.0	9.0	7.0	0.5	6.5	15.5	24.5	26.5	26.0	33.0	28.0	26.5
18	16.0	10.5	7.0	0.0	8.0	16.0	23.0	27.0	27.0	32.0	27.0	28.0
19	15.5	11.0	11.5	0.0	10.0	16.0	22.5	27.5	28.5	31.5	26.0	27.0
20	14.0	11.5	9.0	1.0	11.0	15.0	22.5	27.5	28.5	31.5	26.0	25.0
21	14.0	11.0	4.5	2.5	10.5	16.5	21.5	27.5	28.0	30.5	28.5	25.0
22	14.5	8.5	4.0	1.5	10.0	15.0	22.0	27.5	31.0	31.5	28.0	25.0
23	14.0	8.0	4.0	1.5	13.5	16.0	19.5	26.0	32.0	32.0	29.0	25.5
24	14.5	7.5	5.0	2.0	14.0	15.5	21.5	24.5	30.0	32.0	29.0	23.5
25	14.5	10.0	5.5	2.0	15.0	14.5	20.5	25.0	31.0	30.5	29.5	23.5
26	13.5	12.0	6.5	3.0	16.0	16.5	20.0	24.5	29.5	30.0	30.0	23.5
27	12.5	12.0	7.5	2.5	13.5	17.0	20.5	25.5	27.0	29.0	30.0	23.5
28	11.0	8.0	7.5	2.5	12.5	16.5	21.5	26.0	28.0	28.0	28.5	25.5
29	10.0	6.5	6.5	0.0	---	19.0	21.5	29.0	29.5	27.5	30.0	23.5
30	11.0	5.0	6.0	1.0	---	19.5	22.5	27.5	30.5	30.0	30.5	23.5
31	11.0	---	1.0	0.5	---	18.5	---	28.0	---	29.5	30.5	---
MEAN	17.0	9.5	6.0	1.5	8.5	14.5	20.0	25.5	28.5	30.5	29.5	27.0

07047900 ST. FRANCIS BAY AT RIVERFRONT, AR

LOCATION.--Lat 35°15'34", long 90°40'48", in W½ sec.4, T.7 N., R.4 E., Cross County, Hydrologic Unit 08020203, at 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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. January 1935 to date in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 171.25 ft (52.197 m) above mean sea level. Prior to Aug. 20, 1948, nonrecording gage at present site and datum.

REMARKS.--Part of the flow at this station is diverted from the St. Francis River at lock and dam about 4.0 mi (6.4 km) northwest of Marked Tree (see sta 07047800). Some regulation by Wappapello Lake (Missouri) since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm^3). Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--40 years (1936-75), 5,203 ft^3/s (147 m^3/s), 3,770,000 acre-ft/yr (4,650 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,100 ft^3/s (1,530 m^3/s) Feb. 2, 1937; maximum gage height, 39.03 ft (11.896 m) Mar. 3, 1973 (backwater from Mississippi River); no flow Nov. 17-26, 1941, due to backwater from Mississippi River.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 40,600 ft^3/s (1,150 m^3/s) Apr. 11; maximum gage height, 37.27 ft (11.360 m) Apr. 7; minimum discharge, 1,120 ft^3/s (31.7 m^3/s) Oct. 22, gage height, 8.20 ft (2.499 m).

EXTREMES FOR WATER YEAR 1976.--Maximum daily discharge recorded, 16,700 ft^3/s (473 m^3/s) July 12, but was probably higher during period of no gage height record; minimum, 186 ft^3/s (5.27 m^3/s) Sept. 23, gage height, 6.04 ft (1.841 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	2420	1330	3930	5020	6680	13800	29200	7380	6910	2940	2800	2280
2	2380	1330	3760	5450	7850	15700	30400	6920	6650	2890	2900	2260
3	2360	1360	3720	7040	7930	16900	31700	8130	6390	2820	3100	2280
4	2350	1630	3620	6850	8140	16500	32600	8190	5950	2740	3300	2250
5	2340	1650	3600	6330	8660	16000	33100	8310	5540	2640	3500	2180
6	2320	1630	3500	6370	9020	15300	33500	8910	5320	2530	3700	2110
7	2310	1650	3460	6240	9410	14600	33900	9680	5140	2450	4000	2240
8	2310	1710	3440	6630	9150	14000	36300	9890	4950	2330	4700	2240
9	2220	1850	3430	6540	8780	13300	38200	10700	4770	2230	5000	2320
10	2110	1900	3290	8000	8310	12900	39000	11700	4330	2300	4700	2430
11	2030	2290	3180	9210	8070	14000	39300	13200	4660	2620	4330	2530
12	1960	3740	3050	7270	7790	15300	36800	14800	5250	3290	4020	3350
13	1900	3300	2970	6200	7550	16700	34400	16500	4130	4100	3710	3800
14	1820	3020	2900	6740	7460	17600	32000	16600	4090	4400	3550	3880
15	1740	2950	2840	7560	7340	18200	29900	15700	4320	4470	3400	3940
16	1700	2890	2750	8230	7180	18600	27400	14300	4930	4700	3080	4000
17	1660	2920	2740	8600	7060	19100	25100	12800	4800	4900	2790	3980
18	1550	2830	2660	8690	6890	20300	22400	11300	4310	4700	2640	3960
19	1390	2770	2530	8710	6620	21900	19600	10000	3980	4500	3460	3940
20	1300	2590	2460	8580	6260	22400	17200	8750	3810	4300	4500	3910
21	1210	2780	2400	8220	5870	22700	14900	7600	3670	4000	4170	3890
22	1120	3060	2320	7880	5520	22900	13000	7150	3620	3700	4130	3890
23	1140	3320	2270	7500	7430	23200	11400	6800	3600	3500	3860	3890
24	1140	4750	2280	7020	9000	23500	10100	6420	3530	3300	3590	3890
25	1160	6430	2370	6590	7900	24000	9490	6200	3390	3100	3410	3890
26	1170	4760	2520	6220	8270	24200	8690	6130	3210	3000	3340	3860
27	1190	4480	2760	5950	10100	23700	7470	6260	3080	3000	3160	3670
28	1200	4320	3030	5690	12100	25200	6670	6720	3070	2900	2840	3420
29	1250	4120	3690	5660	---	26600	6250	8130	3410	2900	2480	3240
30	1270	3970	4150	5580	---	27100	6590	7680	3040	2800	2240	3280
31	1290	---	4530	5840	---	27900	---	7180	---	2800	2320	---
TOTAL	53310	87330	96150	216410	222340	604100	716560	300030	133850	102850	108720	96800
MEAN	1720	2911	3102	6981	7941	19490	23890	9678	4462	3318	3507	3227
MAX	2420	6430	4530	9210	12100	27900	39300	16600	6910	4900	5000	4000
MIN	1120	1330	2270	5020	5520	12900	6250	6130	3040	2230	2240	2110
AC-FT	105700	173200	190700	429200	441000	1198000	1421000	595100	265500	204000	215600	192000

CAL YR 1974 TOTAL 2390570 MEAN 6550 MAX 18100 MIN 1120 AC-FT 4742000
WTR YR 1975 TOTAL 2738450 MEAN 7503 MAX 39300 MIN 1120 AC-FT 5432000

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3260	1640	3750					---	4460	14500	4900	792
2	3060	1600	3490					---	4270	14400	4840	738
3	2850	1600	---					---	4290	13900	4680	654
4	2650	1690	---					---	4250	14000	4280	666
5	2480	1810	---					---	4340	13100	3720	654
6	2300	1830	---					---	4520	12200	4040	592
7	2200	1840	---					---	4370	12400	3480	624
8	2440	1870	---					---	4180	13400	3060	618
9	2590	1900	---					---	3890	14500	2690	548
10	2540	1910	---					---	3730	15500	2330	514
11	2500	2000	---					---	3480	16300	2010	506
12	2470	2030	---					---	2960	16700	1780	420
13	2400	2030	---					---	2490	16600	1570	382
14	2240	2020	---					---	2240	15900	1400	371
15	2110	2080	---					---	2340	14300	1260	356
16	---	2070	---					---	2690	12300	1180	349
17	---	2000	---					---	1660	10200	930	338
18	---	1930	---					2480	5630	8560	852	334
19	---	1880	---					2370	7910	7380	1460	326
20	---	2010	---					1980	7540	6480	966	319
21	---	1950	---					2080	8020	5860	756	308
22	1830	1920	---					2290	8790	5450	1130	285
23	1740	1920	---					2290	11100	5350	1150	192
24	1700	1810	---					2060	13900	4990	1130	386
25	1750	1750	---					2010	15000	4940	1100	326
26	1760	1810	---					2010	14000	4970	1060	217
27	1760	1920	---					3660	13400	4340	930	208
28	1710	1940	---					5700	13400	4180	882	255
29	1690	1950	---					4570	13800	4860	882	345
30	1690	2610	---					3740	14200	4830	846	431
31	1670	---	---					3660	---	4720	813	---
TOTAL	---	57320	---					---	206850	317110	62107	13054
MEAN	---	1911	---					---	6895	10230	2003	435
MAX	---	2610	---					---	15000	16700	4900	792
MIN	---	1600	---					---	1660	4180	756	192
AC-FT	---	113700	---					---	410300	629000	123200	25890

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

WATER-QUALITY RECORDS

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, 482 micromhos Dec. 1, 1977; minimum, 74 micromhos Jan. 11, 1974.
WATER TEMPERATURES: Maximum, 32.0°C July 16, 18, 22, Sept. 1, 1977; minimum, 0.0°C on several days during January 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 482 micromhos Dec. 1; minimum, 81 micromhos Mar. 4.
WATER TEMPERATURES: Maximum, 32.0°C July 16, 18, 22, Sept. 1; minimum, 0.0°C on several days during January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	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)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
06...	1028	1028	425	7.9	19.0	9.2	98	--	B22	B4	210
NOV											
02...	1028	1028	265	7.7	13.0	9.4	92	--	--	B33	130
30...	1028	1028	405	7.9	5.0	12.3	99	--	--	B20	180
JAN											
19...	1028	1028	383	7.5	.5	--	--	--	<11	B32	180
FEB											
07...	1028	1028	370	7.7	2.0	12.6	94	--	<11	B72	160
MAR											
07...	1028	1028	199	7.3	11.0	9.3	79	--	B330	520	81
29...	1028	1028	145	7.1	17.5	7.6	81	47	1900	2400	61
MAY											
02...	1028	1028	185	7.4	20.5	7.3	83	--	B89	B60	80
JUN											
01...	1028	1028	255	7.8	28.0	6.7	85	--	B67	210	110
27...	1028	1028	290	8.1	26.0	7.2	90	--	B33	270	140
AUG											
15...	1028	1028	--	--	--	--	--	--	--	--	--
15...	1028	1028	418	8.2	28.5	7.2	94	--	B67	420	190
SEP											
12...	1028	1028	460	8.3	28.0	8.1	104	--	B33	700	220

DATE	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											
06...	6	59	15	12	11	.4	2.1	248	0	203	5.0
NOV											
02...	17	34	11	7.9	11	.3	3.2	138	0	113	4.4
30...	0	48	15	12	12	.4	2.1	223	0	183	4.5
JAN											
19...	14	48	14	11	12	.4	2.5	199	0	163	10
FEB											
07...	3	43	13	9.6	11	.3	1.9	192	0	157	6.1
MAR											
07...	13	22	6.3	6.4	14	.3	2.4	83	0	68	6.7
29...	9	16	5.1	3.8	11	.2	2.4	63	0	52	8.0
MAY											
02...	12	21	6.6	3.9	9	.2	2.4	82	0	67	5.2
JUN											
01...	8	29	8.2	6.6	12	.3	2.7	120	0	98	3.0
27...	14	39	9.6	9.2	13	.3	2.3	150	0	120	1.9
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	1	53	14	13	13	.4	2.2	230	0	190	2.3
SEP											
12...	7	62	16	11	10	.3	2.0	260	0	210	2.1

B PLATE COUNT OUTSIDE IDEAL RANGE.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
OCT											
06...	22	8.3	.2	18	266	259	.36	.02	.46	.48	2.1
NOV											
02...	21	6.3	.1	14	173	166	.24	.15	.57	.72	3.2
30...	20	13	.1	14	261	234	.36	.05	.34	.39	1.7
JAN											
19...	18	12	.1	15	233	219	.32	.08	.38	.46	2.0
FEB											
07...	19	9.1	.2	12	207	202	.28	.23	.38	.61	2.7
MAR											
07...	14	6.8	.1	6.0	118	105	.16	.51	1.5	2.0	8.9
29...	13	4.1	.1	8.8	97	85	.13	.18	.92	1.1	4.9
MAY											
02...	11	4.1	.1	10	114	99	.16	.27	.69	.96	4.3
JUN											
01...	15	6.6	.2	12	142	139	.19	.29	1.6	1.9	8.4
27...	16	8.6	.2	15	169	174	.23	.23	.79	1.0	4.5
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	19	13	.2	16	245	244	.33	.01	3.3	3.3	15
SEP											
12...	29	5.7	.2	22	264	276	.36	.01	.37	.38	1.7

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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											
06...	.17	3	1	2	<10	<10	0	10	10	0	50
NOV											
02...	.25	--	--	--	--	--	--	--	--	--	--
30...	.16	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.11	1	0	1	<10	<10	0	0	0	0	<50
FEB											
07...	.12	--	--	--	--	--	--	--	--	--	--
MAR											
07...	.53	--	--	--	--	--	--	--	--	--	--
29...	.30	5	5	0	10	9	1	10	10	0	50
MAY											
02...	.16	--	--	--	--	--	--	--	--	--	--
JUN											
01...	.36	--	--	--	--	--	--	--	--	--	--
27...	.39	3	--	3	<10	<9	1	20	--	0	<50
AUG											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	.24	--	--	--	--	--	--	--	--	--	--
SEP											
12...	.13	--	--	--	--	--	--	--	--	--	--

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)
OCT								
06...	48	2	10	9	1	1100	20	<100
NOV								
02...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
JAN								
19...	<50	0	10	9	1	1000	20	<100
FEB								
07...	--	--	--	--	--	--	--	--
MAR								
07...	--	--	--	--	--	--	--	--
29...	50	0	20	10	10	19000	170	100
MAY								
02...	--	--	--	--	--	--	--	--
JUN								
01...	--	--	--	--	--	--	--	--
27...	<50	0	30	26	4	8100	40	<100
AUG								
15...	--	--	--	--	--	--	--	--
SEP								
12...	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	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)
OCT									
06...	<100	0	180	110	70	.0	.0	.0	0
NOV									
02...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JAN									
19...	<100	0	240	30	210	.0	.0	.0	0
FEB									
07...	--	--	--	--	--	--	--	--	--
MAR									
07...	--	--	--	--	--	--	--	--	--
29...	99	1	310	300	10	.0	--	.0	1
MAY									
02...	--	--	--	--	--	--	--	--	--
JUN									
01...	--	--	--	--	--	--	--	--	--
27...	<99	1	390	--	20	.0	--	.0	1
AUG									
15...	--	--	--	--	--	--	--	--	--
SEP									
12...	--	--	--	--	--	--	--	--	--

DATE	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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	SUS-PENDED SEDI-MENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT								
06...	0	0	10	0	10	1.9	26	99
NOV								
02...	--	--	--	--	--	--	54	91
30...	--	--	--	--	--	--	56	79
JAN								
19...	0	0	20	10	10	4.5	35	81
FEB								
07...	--	--	--	--	--	--	42	97
MAR								
07...	--	--	--	--	--	--	570	88
29...	1	0	60	50	10	11	269	93
MAY								
02...	--	--	--	--	--	--	122	79
JUN								
01...	--	--	--	--	--	--	247	98
27...	0	1	60	50	8	7.7	309	95
AUG								
15...	--	--	--	--	--	5.2	339	41
SEP								
12...	--	--	--	--	--	2.9	152	99

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

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

PHYTOPLANKTON

DATE	OCT 5,76		NOV 2,76		NOV 30,76		JAN 19,77		FEB 7,77		MAR 7,77	
TIME	0000		1315		1400		1030		1030		1300	
TOTAL CELLS/ML	24000		8800		7000		4300		3800		2200	
DIVERSITY: DIVISION	0.5		1.6		1.1		1.0		1.7		0.3	
.CLASS	0.5		1.7		1.3		1.4		2.0		0.3	
..ORDER	0.6		2.3		1.5		1.8		2.4		1.2	
...FAMILY	2.0		2.6		2.6		2.4		3.1		1.9	
....GENUS	2.1		3.3		2.7		2.9		3.3		1.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE												
....COELASTRUM	1800	8	--	-	--	-	--	-	--	-	--	-
...HYDRODICTYACEAE												
....PEDIASTRUM	2100	9	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE												
....GOLENKINIA	--	-	--	-	--	-	27	1	39	1	--	-
....MICRACTINIUM	1400	6	150	2	2800#	39	--	-	*	0	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	240	3	110	2	570	13	160	4	--	-
....CHODATELLA	--	-	*	0	37	1	54	1	--	-	--	-
....CLOSTERIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	14000#	58	--	-	300	4	650#	15	59	2	--	-
....KIRCHNERIELLA	460	2	59	1	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	*	0	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....ACTINASTRUM	--	-	630	7	--	-	--	-	*	0	--	-
....CRUCIGENIA	--	-	--	-	--	-	220	5	--	-	--	-
....SCENEDESMUS	1800	8	790	9	1300#	19	540	13	140	4	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-	--	-
..TETRASPORALES												
...PALMELLACEAE												
....GLOEOCYSTIS	--	-	180	2	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CARTERIA	--	-	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	--	-	--	-	75	1	27	1	180	5	--	-
....CHLOROGONIUM	--	-	--	-	--	-	--	-	--	-	--	-
...PHACOTACEAE												
....COCCOMONAS	--	-	--	-	37	1	--	-	--	-	--	-
....PHACOTUS	--	-	--	-	--	-	--	-	--	-	--	-
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-	140	6
...VOLVOCACEAE												
....EUDORINA	--	-	--	-	--	-	--	-	*	0	--	-
....PANDORINA	--	-	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES												
...OOCYSTACEAE												
....GLOEOACTINIUM	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

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

PHYTOPLANKTON

DATE / TIME	OCT 6,76 0000		NOV 2,76 1315		NOV 30,76 1400		JAN 19,77 1030		FEB 7,77 1030		MAR 7,77 1300	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	1800	8	1600#	18	190	3	1100#	27	200	5	700#	31
....MELOSIRA	230	1	1800#	20	--	-	27	1	140	4	--	-
....STEPHANODISCUS	--	-	--	-	220	3	--	-	--	-	--	-
..PENNALES												
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	27	1	1100#	28	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	*	0	150	2	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	*	0	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....GYROSIGMA	--	-	--	-	--	-	--	-	*	0	--	-
....NAVICULA	--	-	98	1	37	1	27	1	79	2	280	13
....PINNULARIA	--	-	*	0	--	-	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	460	2	410	5	1200#	17	410	9	360	9	980#	44
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	37	1	--	-	59	2	140	6
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...CHROMULINACEAE												
....CHRYSOCOCCUS	--	-	--	-	--	-	570	13	--	-	--	-
...MALLOMONADACEAE												
....MALLOMONAS	--	-	--	-	--	-	--	-	20	1	--	-
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	370	5	--	-	99	3	--	-
....OCHROMONAS	--	-	--	-	--	-	--	-	59	2	--	-
.XANTHOPHYCEAE												
..HETEROCOCCALES												
...CHLOROTHECIACEAE												
....OPHIOCYTIUM	--	-	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROCOCCALES												
...CHROCOCCACEAE												
....ANACYSTIS	--	-	1300	14	--	-	--	-	--	-	--	-
..NOSTOCALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	1300	15	--	-	--	-	690#	18	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	98	1	110	2	--	-	20	1	--	-
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	*	0	75	1	--	-	39	1	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	59	1	--	-	--	-	410	11	--	-
PYRRHOPHYTA (FIRE ALGAE)												
.DINOPHYCEAE												
..GYMNODINIALES												
...GYMNODINIACEAE												
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

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

PHYTOPLANKTON

DATE	MAY 2,77	JUN 1,77	JUN 27,77	AUG 15,77	SEP 12,77
TIME	1200	1130	1230	1315	1400
TOTAL CELLS/ML	4100	6000	12000	21000	46000
DIVERSITY: DIVISION	1.7	1.8	1.6	1.2	0.6
.CLASS	1.7	1.9	1.6	1.2	0.6
..ORDER	1.8	2.0	2.1	1.7	0.7
...FAMILY	2.5	2.9	2.5	1.9	0.8
....GENUS	3.1	3.3	2.9	2.1	0.9

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	*	0	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	670	11	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	69	2	--	-	--	-	*	0	--	-
....MICRACTINIUM	270	7	310	5	--	-	480	2	*	0
...OOCYSTACEAE										
....ANKISTRODESMUS	270	7	190	3	--	-	*	0	260	1
....CHODATELLA	27	1	--	-	--	-	--	-	--	-
....CLOSTERIOPSIS	*	0	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	160	4	170	3	--	-	210	1	410	1
....KIRCHNERIELLA	160	4	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	240	4	--	-	--	-	*	0
....TETRAEDRON	*	0	--	-	--	-	--	-	--	-
....ANESTELLA	--	-	--	-	--	-	--	-	*	0
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	3800#	30	*	0	410	1
....CRUCIGENIA	--	-	870	15	--	-	--	-	620	1
....SCENEDESMUS	580	14	290	5	410	3	350	2	930	2
....TETRASTRUM	--	-	--	-	540	4	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	--	-	*	0
....CHLAMYDOMONAS	--	-	--	-	--	-	*	0	*	0
....CHLOROGONIUM	--	-	--	-	--	-	--	-	*	0
...PHACOTACEAE										
....COCCOMONAS	--	-	--	-	--	-	--	-	--	-
....PHACOTUS	--	-	--	-	--	-	*	0	--	-
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-
...VOLVOCACEAE										
....EUDORINA	--	-	--	-	--	-	--	-	--	-
....PANDORINA	--	-	--	-	1100	9	--	-	--	-
..CHLOROCOCCALES										
...OOCYSTACEAE										
....GLOEDACTINIUM	--	-	--	-	1100	9	420	2	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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

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

PHYTOPLANKTON

DATE / TIME	MAY 2,77 1200		JUN 1,77 1130		JUN 27,77 1230		AUG 15,77 1315		SEP 12,77 1400	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	690#	17	1100#	18	--	-	850	4	--	-
....MELOSIRA	370	9	140	2	1800	14	1800	9	310	1
....STEPHANODISCUS	--	-	--	-	140	1	--	-	--	-
..PENNALES										
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	660	3	--	-
....SYNEDRA	--	-	--	-	270	2	*	0	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	*	0	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....GYROSIGMA	--	-	--	-	--	-	*	0	--	-
....NAVICULA	27	1	48	1	140	1	*	0	*	0
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	120	3	96	2	--	-	660	3	360	1
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...CHROMULINACEAE										
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-	--	-
...MALLOMONADACEAE										
....MALLOMONAS	--	-	--	-	--	-	--	-	--	-
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	--	-	--	-	520	1
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	--	-	--	-	--	-	*	0	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....ANACYSTIS	1200#	30	1300#	23	2700#	22	1100	5	41000#	89
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	--	-	--	-	14000#	66	620	1
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	140	1	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	*	0	120	2	--	-	*	0	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	220	4	270	2	*	0	--	-
....PHACUS	*	0	--	-	--	-	--	-	--	-
....TRACHELOMONAS	27	1	190	3	140	1	*	0	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..GYMNODINIALES										
...GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A CHROMOGRAPHIC FLUOROM (MG/M^2)	CHLOROPHYLL B CHROMOGRAPHIC FLUOROM (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
AUG. 15	18	49500	44600	4900	0.653	0.000	7504	POLYETHYLENE STRIP

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	458	224	482	321	361	333	149	188	254	266	374	424
2	452	254	391	299	372	430	149	188	252	236	371	412
3	447	291	385	306	390	350	150	188	326	233	374	416
4	447	354	380	312	396	81	145	188	300	229	383	417
5	446	386	406	392	338	131	134	193	214	226	386	362
6	447	422	403	315	355	158	115	190	287	218	405	356
7	476	431	409	304	343	164	101	192	301	227	421	394
8	476	325	393	301	342	180	99	193	316	217	410	418
9	457	328	407	296	346	175	104	197	323	235	400	433
10	447	380	394	338	355	165	110	209	335	239	383	444
11	452	407	355	332	357	169	112	214	351	245	445	443
12	452	372	342	351	357	224	117	217	360	255	432	438
13	452	390	414	366	264	131	127	204	363	273	400	448
14	448	360	343	359	273	126	137	195	378	247	433	319
15	452	407	344	355	308	138	146	209	382	259	446	302
16	452	418	372	369	313	141	147	199	275	253	425	348
17	476	456	411	377	318	141	154	236	285	258	419	334
18	475	465	405	398	316	148	158	245	315	264	413	255
19	466	471	438	386	329	160	163	258	330	277	384	236
20	464	437	353	394	340	169	172	280	231	287	407	251
21	458	420	374	397	348	176	171	299	295	264	334	253
22	469	403	382	394	352	183	161	317	282	385	323	244
23	436	392	386	389	358	183	164	327	303	299	357	253
24	426	404	386	407	362	214	159	338	305	318	359	163
25	102	390	370	389	346	193	154	287	290	338	423	182
26	106	374	353	393	362	191	150	246	290	336	420	137
27	132	384	369	355	310	188	154	234	308	375	447	217
28	241	392	361	289	322	192	161	226	277	384	378	152
29	232	419	340	251	---	236	173	221	237	409	391	134
30	258	428	314	362	---	144	189	250	257	265	406	123
31	215	---	358	373	---	172	---	252	---	377	423	---
MEAN	394	386	381	351	340	187	144	232	301	280	399	310

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.0	10.5	6.0	0.5	3.0	11.5	17.5	22.5	27.0	28.0	29.0	32.0
2	24.0	9.5	6.0	0.5	4.0	12.0	18.5	21.0	26.5	30.0	29.5	31.5
3	24.0	13.0	6.5	1.0	4.5	11.0	16.5	21.0	26.0	30.0	29.5	30.0
4	21.0	10.5	7.0	1.0	6.0	10.0	16.0	21.5	28.5	30.0	30.0	31.0
5	21.5	9.0	7.5	3.0	5.0	11.0	14.5	22.5	26.0	29.0	30.0	31.0
6	18.0	12.0	7.0	2.0	5.0	11.5	14.0	23.0	29.5	30.0	28.0	31.0
7	16.0	9.5	6.5	1.5	4.0	11.0	15.5	24.5	27.0	30.5	31.5	26.5
8	15.5	11.0	4.0	0.0	4.5	11.0	17.0	23.5	26.5	31.0	31.5	26.5
9	17.0	11.0	3.0	0.5	6.0	11.5	17.5	25.0	27.0	31.0	31.5	26.0
10	19.0	13.0	5.0	0.0	7.0	14.0	19.5	25.0	27.5	29.5	31.5	25.0
11	16.5	9.5	5.5	0.0	4.5	14.5	20.5	23.0	29.0	29.0	31.5	29.0
12	17.0	8.0	6.0	0.0	9.5	14.5	21.0	21.0	30.0	29.5	30.5	24.0
13	17.0	6.5	5.5	0.0	8.5	15.0	21.5	22.0	28.0	29.5	31.0	27.0
14	17.5	6.0	3.5	1.0	7.5	15.5	22.0	24.5	28.0	30.0	29.5	23.0
15	18.0	6.5	5.0	1.5	5.0	17.0	22.0	24.0	27.5	31.0	27.5	24.0
16	18.0	6.0	5.5	1.0	3.5	17.0	23.0	25.0	26.0	32.0	27.5	25.0
17	13.0	6.5	6.0	0.5	6.0	16.0	23.5	25.0	25.5	31.5	28.5	25.0
18	14.0	7.0	7.0	0.0	7.0	16.5	22.5	25.5	26.0	32.0	27.5	27.0
19	15.0	7.5	11.0	0.0	8.5	15.5	22.5	26.0	27.5	31.0	27.0	26.0
20	12.5	10.5	9.0	0.0	9.5	15.0	22.0	26.0	28.0	31.0	27.0	26.0
21	14.0	10.0	6.0	1.0	9.0	14.0	21.0	26.0	28.0	30.5	28.5	26.0
22	15.0	7.5	4.0	0.5	11.5	15.0	21.5	27.0	30.0	32.0	27.5	26.0
23	15.0	6.5	5.0	1.5	12.5	13.0	19.0	24.5	29.5	31.5	28.5	26.0
24	16.0	6.5	5.0	1.5	12.5	13.0	20.0	24.0	30.0	---	28.5	22.0
25	15.0	9.0	5.5	1.5	13.5	14.0	20.0	24.0	30.5	29.5	28.5	23.0
26	13.0	10.5	5.5	2.5	14.5	16.0	19.5	24.0	29.0	29.5	30.5	23.0
27	11.5	11.0	6.5	2.0	12.5	17.0	19.0	24.5	26.5	26.5	30.0	25.0
28	10.5	7.0	6.0	2.0	12.0	16.5	20.0	25.0	28.0	27.0	27.5	23.0
29	9.5	6.0	5.0	0.5	---	17.5	20.5	28.0	29.0	25.0	30.5	23.5
30	11.0	5.0	5.0	1.5	---	18.0	21.0	27.0	29.5	29.0	31.5	22.0
31	11.0	---	0.5	2.0	---	17.5	---	27.5	---	29.0	31.5	---
MEAN	16.0	8.5	5.5	1.0	7.5	14.5	19.5	24.5	28.0	30.0	29.5	26.0

07047902 ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, AR

LOCATION.--Lat 35°13'00", long 90°38'00", to 90°42'00", Cross County, Hydrologic Unit 08020203.

DRAINAGE AREA.--6,475 mi^2 (16,770 km^2), combined drainage area of St. Francis River at Parkin, and St. Francis Bay at Riverfront.

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. January 1935 to December 1949 in files of Corps of Engineers, Memphis district. January 1950 to date in reports of Mississippi River Commission.

REMARKS.--Discharge published for this station represents the total discharge of the St. Francis River at this point, and is the sum of discharge for St. Francis River at Parkin (see station 07047800), and St. Francis Bay at Riverfront (see station 07047900).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--40 years (1936-75), 7,835 ft^3/s (222 m^3/s) 5,676,000 acre-ft/yr (7,000 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 74,100 ft^3/s (2,100 m^3/s) Feb. 2, 1937; minimum daily, 250 ft^3/s (7.08 m^3/s) Nov. 7, 1940.

EXTREMES FOR WATER YEAR 1975.--Maximum daily discharge, 43,200 ft^3/s (1,220 m^3/s) Apr. 11; minimum daily, 1,550 ft^3/s (43.9 m^3/s) Oct. 22.

EXTREMES FOR WATER YEAR 1976.--Maximum daily discharge observed, 19,200 ft^3/s (544 m^3/s) June 24, 25, but probably was higher during period of no gage-height record; minimum daily observed, 950 ft^3/s (26.9 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	3490	1880	6100	7330	9430	16600	39300	10200	9830	4500	4250	3590
2	3230	1900	5750	7680	12500	18300	39900	10200	9330	4400	4430	3580
3	3060	1940	5520	10000	13600	19400	40600	11800	8940	4300	4720	3560
4	2990	2370	4890	10800	14200	19100	40700	12000	8270	4190	5270	3460
5	2970	2590	4500	10300	14900	18600	40100	11700	7730	4060	5620	3350
6	2960	2620	4300	9610	15500	17900	39700	12200	7500	3890	6180	3270
7	2960	2560	4220	8380	15600	17200	39400	13200	7170	3750	6570	3350
8	2970	2510	4170	8200	14500	16400	41000	13200	6870	3610	7200	3370
9	2870	2570	4130	9180	13200	15700	42200	14400	6620	3510	7590	3480
10	2770	2630	3970	11800	11900	15400	43000	15900	6150	3620	7370	3630
11	2690	3940	3870	14200	11200	16800	43200	17600	6530	4050	6990	3910
12	2620	6270	3780	12400	10700	20600	40700	19300	7140	4860	6590	5090
13	2560	5630	3760	10600	10300	25500	38300	20400	5970	5790	6150	5520
14	2480	4680	3660	9960	10200	27500	35800	20100	5880	6110	5780	5540
15	2410	4100	3620	9590	9980	28400	33600	19100	6100	6190	5320	5650
16	2360	3780	3570	9580	9790	28700	31100	17800	6700	6460	4790	5770
17	2340	3720	3510	9650	9680	29000	29100	16200	6590	6820	4390	5750
18	2220	3550	3340	9660	9470	30200	26600	14600	6080	6640	4190	5780
19	2000	3500	3160	9720	9080	31900	24000	13100	5710	6260	5000	5940
20	1840	4070	3050	9810	8580	31800	21500	11500	5490	5910	6330	6570
21	1700	4840	2960	9600	8060	31200	18900	10100	5320	5550	6400	6590
22	1550	4740	2860	9100	7640	30300	16500	9440	5240	5220	6400	6790
23	1570	4470	2800	8530	11400	29400	14500	8960	5200	5030	6110	6690
24	1590	6410	2820	8440	15600	28800	12500	8720	5100	4800	5760	6440
25	1610	11600	3090	8400	15300	28400	11700	8660	4940	4650	5400	5760
26	1640	10800	3440	8160	15200	27900	10800	8650	4740	4560	5040	5570
27	1660	10200	3740	7960	15600	27700	9630	8810	4580	4540	4650	5810
28	1690	8950	4010	7770	16000	31300	8920	9440	4580	4420	4260	5440
29	1800	7460	5240	7670	---	35300	8550	11400	5040	4400	3850	5360
30	1820	6510	6540	7500	---	36900	9040	11100	4690	4270	3570	5050
31	1840	---	6920	7800	---	38400	---	10400	---	4230	3630	---
TOTAL	72260	142790	127290	289380	339110	790600	850840	400180	190030	150590	169800	149660
MEAN	2331	4760	4106	9335	12110	25500	28360	12910	6334	4858	5477	4989
MAX	3490	11600	6920	14200	16000	38400	43200	20400	9830	6820	7590	6790
MIN	1550	1880	2800	7330	7640	15400	8550	8650	4580	3510	3570	3270
AC-FT	143300	283200	252500	574000	672600	1568000	1688000	793800	376900	298700	336800	296900

CAL YR 1974 TOTAL 3518300 MEAN 9639 MAX 30400 MIN 1550 AC-FT 6979000
WTR YR 1975 TOTAL 3672530 MEAN 10060 MAX 43200 MIN 1550 AC-FT 7284000

07047902 ST. FRANCIS RIVER AT LATITUDE OF WITTSBURG, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4800	2100						---	7910	---	6650	2090
2	4470	2050						---	7780	---	6520	2030
3	4180	2060						---	7410	---	6220	1940
4	3930	2170						---	6910	---	5720	1980
5	3720	2300						---	6910	---	5130	1920
6	3510	2460						---	7010	---	5400	1770
7	3370	2780						---	6770	---	4780	1730
8	3590	3420						---	6480	---	4340	1610
9	3680	3630						---	6100	---	3960	1250
10	3350	3370						---	5820	---	3600	1290
11	3130	3120						---	5320	---	3260	1550
12	3050	3020						---	4610	---	3050	1520
13	2970	2890						---	4020	---	2850	1490
14	2810	2780						---	3700	18500	2690	1470
15	---	2750						---	3750	16800	2560	1450
16	---	2690						---	4340	14700	2610	1430
17	---	2560						---	3700	12500	2640	1410
18	---	2420						3180	8630	11100	2520	1410
19	---	2330						3070	13400	9960	3000	1410
20	---	2450						2680	14000	8990	2370	1390
21	---	2360						2870	14400	8250	2100	1360
22	2290	2290						3080	14700	7700	2500	1280
23	2200	2270						3000	16200	7410	2530	1110
24	2170	2150						2770	19200	6790	2510	1020
25	2230	2120						2720	19200	6610	2460	950
26	2250	2200						2710	---	6590	2390	1010
27	2240	2470						4370	---	5980	2240	1330
28	2200	2650						6740	---	6010	2180	1440
29	2170	2620						6860	---	6770	2180	1280
30	2160	3720						7590	---	6690	2140	1080
31	2150	---						7620	---	6460	2100	---
TOTAL	---	78200						---	---	---	105200	44000
MEAN	---	2607						---	---	---	3394	1467
MAX	---	3720						---	---	---	6650	2090
MIN	---	2050						---	---	---	2100	950
AC-FT	---	155100						---	---	---	208700	87270

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, Hydrologic Unit 08020205, 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.--7 years, 704 ft^3/s (19.9 m^3/s), 17.87 in/yr (454 mm/yr), 510,000 acre-ft/yr (629 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, 3,550 ft^3/s (101 m^3/s) Sept. 29, gage height, 13.34 ft (4.066 m); minimum daily, 7.5 ft^3/s (0.212 m^3/s) Oct. 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	867	103	16	450	209	445	304	115	407	480	371
2	26	938	84	14	416	194	431	284	97	379	340	329
3	26	976	65	13	373	371	417	263	78	334	260	292
4	22	958	54	12	333	1280	478	227	67	287	210	262
5	19	901	47	11	308	1190	506	191	60	236	185	247
6	22	825	43	9.7	308	1610	471	156	56	194	165	254
7	18	751	45	13	314	2250	461	122	56	157	160	266
8	17	677	41	18	318	2400	434	153	59	115	150	249
9	16	613	34	16	304	2230	383	366	55	260	135	225
10	15	549	30	14	280	1920	323	198	44	582	114	204
11	14	484	47	13	255	1670	260	102	34	586	126	185
12	13	417	88	12	359	2040	207	53	29	531	131	166
13	12	345	99	12	403	2010	170	33	22	447	138	191
14	11	269	115	30	475	1980	136	24	30	354	147	554
15	11	187	130	60	553	1820	109	22	50	260	177	482
16	10	115	136	90	568	1680	84	24	78	195	208	403
17	9.5	70	129	125	554	1510	64	40	94	145	227	395
18	9.0	54	111	140	526	1310	54	23	107	160	474	384
19	8.5	44	90	150	492	1150	57	19	118	210	540	356
20	8.5	37	74	140	454	950	74	17	116	205	600	320
21	8.0	36	63	134	412	815	80	16	132	210	653	277
22	7.5	29	50	128	362	740	119	15	140	170	684	237
23	15	25	43	116	322	640	176	14	136	175	670	207
24	63	24	39	129	297	580	218	13	127	210	635	381
25	171	22	34	182	260	520	181	13	109	215	596	1080
26	276	29	35	176	240	450	198	18	88	225	569	1270
27	391	85	30	194	232	390	246	28	161	250	549	1730
28	545	105	24	224	221	350	285	93	311	330	525	2340
29	634	118	23	276	---	325	305	120	325	695	486	2900
30	740	117	21	372	---	340	311	128	391	800	454	3270
31	812	---	17	451	---	421	---	128	---	685	414	---
TOTAL	3976.0	10667	1944	3290.7	10394	35345	7683	3207	3285	10009	11202	19827
MEAN	128	356	62.7	106	371	1140	256	103	110	323	361	661
MAX	812	976	136	451	568	2400	506	366	391	800	684	3270
MIN	7.5	22	17	9.7	221	194	54	13	22	115	114	166
CFSM	.24	.67	.12	.20	.69	2.13	.48	.19	.21	.60	.68	1.24
IN.	.28	.74	.14	.23	.72	2.46	.53	.22	.23	.70	.78	1.38
AC-FT	7890	21160	3860	6530	20620	70110	15240	6360	6520	19850	22220	39330

CAL YR 1976 TOTAL 214461.0 MEAN 586 MAX 4100 MIN 7.5 CFSM 1.10 IN 14.91 AC-FT 425400
WTR YR 1977 TOTAL 120829.7 MEAN 331 MAX 3270 MIN 7.5 CFSM .62 IN 8.40 AC-FT 239700

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 1976 TO SEPTEMBER 1977

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)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
07...	1028	1028	18	534	6.4	19.0	6.5	72	--	3.0	260	270
26...	1028	1028	271	--	--	13.5	--	--	--	--	--	--
NOV												
04...	1028	1028	966	155	6.5	10.0	6.2	57	--	3.9	B230	230
30...	1028	1028	116	--	--	3.0	--	--	--	--	--	--
DEC												
01...	1028	1028	105	280	7.4	3.5	11.2	86	--	4.2	B320	450
JAN												
19...	1028	1028	143	230	7.0	1.0	--	--	--	4.4	220	800
FEB												
08...	1028	1028	317	180	7.1	2.0	6.3	47	--	2.6	B67	B48
10...	1028	1028	281	--	--	4.0	--	--	--	--	--	--
22...	1028	1028	375	--	--	8.5	--	--	--	--	--	--
MAR												
08...	1028	1028	2320	99	6.9	9.0	8.5	75	46	2.3	B130	440
30...	1028	1028	320	160	7.2	18.0	6.2	67	40	2.8	B400	430
31...	1028	1028	412	--	--	16.5	--	--	--	--	--	--
MAY												
03...	1028	1028	272	100	7.2	19.5	6.2	69	36	3.4	430	580
17...	1028	1028	43	--	--	23.0	--	--	--	--	--	--
JUN												
02...	1028	1028	102	355	7.3	25.0	5.2	64	25	7.2	220	460
28...	1028	1028	313	303	7.7	24.5	5.0	61	52	4.0	1500	B6600
28...	1028	1028	301	--	--	24.5	--	--	--	--	--	--
AUG												
10...	1028	1028	118	--	--	27.5	--	--	--	--	--	--
16...	1028	1028	214	545	8.1	26.5	5.2	57	30	3.8	E1300	4600
SEP												
13...	1028	1028	148	545	7.9	24.0	5.2	63	51	4.6	B230	2100
19...	1028	1028	355	--	--	24.5	--	--	--	--	--	--

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												
07...	250	0	59	24	25	18	.7	3.7	302	0	248	192
26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
19...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
08...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
13...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--

B PLATE COUNT OUTSIDE IDEAL RANGE.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	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)
OCT												
07...	21	21	.3	20	332	323	.45	16.1	.35	1.1	1.5	6.4
26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
04...	--	--	--	--	--	--	--	--	.00	.71	.71	3.1
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
01...	--	--	--	--	--	--	--	--	.11	.90	1.0	4.5
JAN												
19...	--	--	--	--	--	--	--	--	.62	.63	1.3	5.5
FEB												
08...	--	--	--	--	--	--	--	--	.17	.29	.46	2.0
10...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	.28	1.9	2.2	9.7
30...	--	--	--	--	--	--	--	--	.20	1.4	1.6	7.1
31...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	.37	1.3	1.7	7.4
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	.44	2.0	2.4	11
28...	--	--	--	--	--	--	--	--	.90	1.3	2.3	10
29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	.20	1.4	1.6	7.1
SEP												
13...	--	--	--	--	--	--	--	--	.12	1.1	1.2	5.4
19...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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											
07...	.31	4	1	3	0	0	0	0	0	0	<50
26...	--	--	--	--	--	--	--	--	--	--	--
NOV											
04...	.16	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	.23	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.16	--	--	--	--	--	--	--	--	--	--
FEB											
08...	.14	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	.34	--	--	--	--	--	--	--	--	--	--
30...	.37	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	.19	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	.26	--	--	--	--	--	--	--	--	--	--
28...	.37	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
16...	.33	--	--	--	--	--	--	--	--	--	--
SEP											
13...	.40	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT 07...	<50	0	10	7	3	1700	20	<100	<100	0	440	260
JAN 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 28...	--	--	--	--	--	--	--	--	--	--	--	--

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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT 07...	180	.1	.0	.1	2	0	2	20	0	20	7.3
JAN 19...	--	--	--	--	--	--	--	--	--	--	9.8
MAR 30...	--	--	--	--	--	--	--	--	--	--	15
JUN 28...	--	--	--	--	--	--	--	--	--	--	9.2

DATE	TOTAL PCB (UG/L) (39516)	PCB IN BOTTOM MA-TERIAL (UG/KG) (39519)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	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)
OCT 07...	.0	0	.00	.00	.0	.0	0	.00	4.9	.00
MAR 08...	.0	--	.00	.00	--	.0	--	.00	--	.00
30...	.0	--	.00	.00	--	.0	--	.00	--	.00
JUN 28...	.0	--	.00	.00	--	.0	--	.01	--	.00

DATE	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	TOTAL DI-AZINON (UG/L) (39570)	TOTAL DI-ELDRIN (UG/L) (39380)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	TOTAL ENDO-SULFAN (UG/L) (39388)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	TOTAL ETHION (UG/L) (39398)
OCT 07...	5.1	.00	3.6	.00	.01	2.0	--	.00	.0	.00
MAR 08...	--	.00	--	.00	.01	--	--	.00	--	.00
30...	--	.00	--	.00	.01	--	.00	.00	--	.00
JUN 28...	--	.01	--	.00	.02	--	-	.00	--	.00

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL HEPTA-CHLOR (UG/L) (39410)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METH-OXY-CHLOR (UG/L) (39480)	TOTAL METHYL PARA-THION (UG/L) (39600)
OCT									
07...	.00	.0	.00	.0	.00	.0	.00	--	.00
MAR									
08...	.00	--	.00	--	.00	--	.00	.00	.00
30...	.00	--	.00	--	.00	--	.00	--	.00
JUN									
28...	.00	--	.00	--	.00	--	.00	.00	.00

DATE	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL MIREX (UG/L) (39755)	TOTAL PARA-THION (UG/L) (39540)	TOTAL TOX-APHENE (UG/L) (39400)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	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)
OCT									
07...	.00	--	.00	0	0	.00	.00	.02	.00
MAR									
08...	.00	--	.00	0	--	.00	.04	.06	.01
30...	.00	--	.00	0	--	.00	.32	.07	.00
JUN									
28...	.00	.00	.01	0	--	.00	.01	.28	.00

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

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

PHYTOPLANKTON

DATE	OCT 7,76
TIME	1100
TOTAL CELLS/ML	27000
DIVERSITY: DIVISION	1.0
.CLASS	1.0
..ORDER	1.6
...FAMILY	1.7
....GENUS	1.7

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....SELENASTRUM	730	3
...SCENEDESMACEAE		
....SCENEDESMUS	310	1
..VOLVOCALES		
...VOLVOCACEAE		
....VOLVOX	5200#	19
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NITZSCHIACEAE		
....NITZSCHIA	210	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROCOCCALES		
...CHROCOCCACEAE		
....ANACYSTIS	3600	14
..HORMOGONALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	16000#	60
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	520	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

07047950 L'ANGUILLE RIVER AT PALESTINE, AR

LOCATION.--Lat 34°58'20", long 90°53'10", in NW¼ sec.10, T.4 N., R.2 E., St. Francis County, Hydrologic Unit 08020205, at bridge on U.S. Highway 70, 1.0 mi (1.6 km) east of Palestine, and at mile 33.6 (54.1 km).

DRAINAGE AREA.--786 mi^2 (2,036 km^2).

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. January 1949 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 166.68 ft (50.804 m) above mean sea level. Prior to Nov. 1, 1949, nonrecording gage. Prior to Jan. 1, 1952, datum of gage was 0.32 ft (0.098 m) below mean sea level.

REMARKS.--Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--27 years, 1,187 ft^3/s (33.6 m^3/s), 860,000 acre-ft/yr (1,060 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,600 ft^3/s (442 m^3/s) May 20, 1953; maximum gage height, 30.92 ft (9.424 m) Feb. 3, 1950, present datum (backwater from Mississippi River); no flow at times during most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1933, 39.7 ft (12.10 m) Feb. 13, 1937, present site and datum, from records of Corps of Engineers (backwater from Mississippi River).

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 10,600 ft^3/s (300 m^3/s) Mar. 30; maximum gage height, 28.47 ft (8.678 m) Apr. 10 (backwater from Mississippi River); minimum daily discharge, 41 ft^3/s (1.16 m^3/s) Oct. 22, 23.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 4,360 ft^3/s (123 m^3/s) June 30; maximum gage height, 23.69 ft (7.221 m) Feb. 23, 24 (backwater from Mississippi River); minimum daily discharge, 18 ft^3/s (0.51 m^3/s) May 26.

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	151	52	1800	1220	1510	1820	8760	1180	746	273	455	632
2	171	57	2030	1100	1980	1700	7480	1100	763	243	446	634
3	191	54	2120	1290	2610	1590	6260	1370	724	220	496	634
4	201	134	1980	1560	3110	1380	5740	1900	677	193	749	641
5	198	722	1830	1750	3780	1240	4850	2120	641	161	786	656
6	181	933	1730	1920	4470	1180	4610	2120	590	130	805	662
7	153	1070	1610	2090	4770	1290	4250	2060	520	107	834	668
8	125	1170	1470	2200	4650	2460	3770	1950	456	100	872	674
9	103	1200	1320	2250	4290	5710	4480	1840	383	99	897	675
10	86	1180	1230	2390	3800	8880	4900	1700	346	102	898	687
11	73	1390	1190	2850	3320	9900	4870	1560	345	106	898	692
12	65	1510	1150	3770	2970	9530	4970	1440	366	122	902	736
13	58	1560	1100	4340	2700	8960	4920	1300	369	133	903	784
14	54	1630	1040	4440	2440	8980	4630	1220	349	146	901	826
15	52	1670	948	4190	2190	8670	3960	1140	343	163	879	870
16	51	1660	845	3770	1980	8360	3180	1040	354	169	836	919
17	49	1610	756	3290	1840	8030	2810	939	363	160	787	953
18	47	1520	792	2990	1680	7720	2310	829	372	149	725	1000
19	46	1490	846	2750	1510	7400	1740	682	397	147	661	1060
20	44	1500	901	2540	1330	6780	1270	517	506	149	615	1110
21	43	1460	975	2340	1220	6180	1060	361	554	177	580	1160
22	41	1400	1050	2160	1130	5460	924	245	566	239	528	1160
23	41	1340	1120	2000	1440	4610	795	152	556	258	508	1180
24	43	1360	1200	1890	1900	3890	588	96	503	245	535	1180
25	45	1420	1290	1790	2130	3450	499	81	455	246	571	1170
26	47	1460	1430	1680	2180	3440	504	92	401	364	590	1140
27	49	1510	1560	1560	2080	3640	537	125	352	486	596	1120
28	51	1580	1690	1430	1940	5540	576	174	319	523	594	1080
29	53	1620	1830	1300	---	9040	990	348	287	535	592	1040
30	55	1690	2010	1220	---	10300	1140	605	284	521	603	1000
31	56	---	1490	1180	---	10200	---	699	---	484	616	---
TOTAL	2623	36952	42333	71250	70950	177330	97373	30985	13887	7150	21658	26743
MEAN	84.6	1232	1366	2298	2534	5720	3246	1000	463	231	699	891
MAX	201	1690	2120	4440	4770	10300	8760	2120	763	535	903	1180
MIN	41	52	756	1100	1130	1180	499	81	284	99	446	632
AC-FT	5200	73290	83970	141300	140700	351700	193100	61460	27540	14180	42960	53040

CAL YR 1974 TOTAL 533539.90 MEAN 1462 MAX 13000 MIN .00 AC-FT 1058000
WTR YR 1975 TOTAL 599234.00 MEAN 1642 MAX 10300 MIN 41 AC-FT 1189000

07047950 L'ANGUILLE RIVER AT PALESTINE, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	955	64	550	1330	1540	2050	2060	559	908	4270	140	436
2	904	62	665	1460	1560	1840	2280	501	955	3850	152	456
3	832	59	703	1560	1550	1690	2570	418	945	3280	179	469
4	726	53	733	1630	1530	1570	2780	323	930	2970	201	505
5	603	62	762	1710	1590	1610	2760	239	915	2650	212	563
6	450	153	796	1770	1610	1600	2550	199	903	2380	226	617
7	297	214	811	1800	1540	1550	2280	181	890	2120	239	658
8	182	253	863	1760	1460	1660	1880	141	852	1880	243	692
9	106	281	928	1690	1330	2090	1630	106	793	1750	235	721
10	67	308	993	1530	1160	2710	1370	76	739	1610	214	737
11	42	316	1030	1380	1080	3220	1120	53	680	1450	194	748
12	33	297	1020	1210	1010	3390	1030	38	631	1260	175	746
13	30	260	966	1120	975	3370	955	35	580	1110	161	739
14	27	211	913	1070	922	3260	867	39	529	1030	154	707
15	25	161	885	1010	846	3100	764	36	486	960	148	661
16	24	121	896	933	766	2860	619	35	434	828	143	626
17	22	87	895	848	740	2510	454	41	368	682	154	587
18	21	64	891	760	1080	2160	293	30	363	507	164	537
19	20	52	871	646	1530	1870	180	32	537	332	173	486
20	20	53	828	530	1820	1680	117	48	754	207	188	434
21	24	57	784	426	2380	1470	86	56	982	139	215	367
22	24	57	737	357	3500	1260	71	47	1120	109	234	317
23	26	54	648	329	4210	1090	64	34	1340	92	250	273
24	34	48	577	329	4250	1010	68	26	1610	83	255	230
25	43	40	538	339	3940	932	144	20	1930	84	259	191
26	49	45	648	590	3500	869	398	18	2770	88	274	155
27	55	79	799	878	3070	844	507	29	3620	103	274	119
28	62	149	928	1100	2710	842	590	140	4150	123	277	88
29	71	175	1070	1370	2360	978	605	462	4250	125	302	68
30	69	301	1180	1490	---	1510	595	713	4270	125	352	60
31	67	---	1250	1530	---	1830	---	832	---	129	400	---
TOTAL	5910	4136	26158	34485	55559	58425	31687	5507	40234	36326	6787	13993
MEAN	191	138	844	1112	1916	1885	1056	178	1341	1172	219	466
MAX	955	316	1250	1800	4250	3390	2780	832	4270	4270	400	748
MIN	20	40	538	329	740	842	64	18	363	83	140	60
AC-FT	11720	8200	51880	68400	110200	115900	62850	10920	79800	72050	13460	27760

CAL YR 1975 TOTAL 553530 MEAN 1517 MAX 10300 MIN 20 AC-FT 1098000
WTR YR 1976 TOTAL 319207 MEAN 872 MAX 4270 MIN 18 AC-FT 633100

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, Hydrologic Unit 08020205, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
27...	9827	9827	394	7.6	12.0	60	6.4	4.4	3000	--	--
NOV											
15...	9827	9827	227	7.6	7.0	70	8.8	4.3	1300	--	--
DEC											
14...	9827	9827	300	7.6	5.0	160	9.1	4.6	2700	--	150
JAN											
24...	9827	9827	293	8.0	2.0	50	11.0	5.1	1500	170	140
FEB											
23...	9827	9827	197	7.2	10.0	160	9.4	3.8	150	--	--
MAR											
28...	9827	9827	135	7.2	17.0	250	6.9	--	--	--	--
APR											
25...	9827	9827	189	7.1	19.0	150	4.2	>4.2	1400	350	55
JUN											
07...	9827	9827	401	7.8	25.0	30	5.2	3.4	--	--	--
27...	9827	9827	416	7.8	25.0	60	5.4	2.7	670	--	--
JUL											
19...	9827	9827	303	7.8	27.0	--	6.4	3.3	380	--	--
AUG											
22...	9827	9827	--	7.9	25.0	--	6.4	2.0	1400	--	--
SEP											
26...	9827	9827	145	7.3	23.0	100	4.0	3.6	8000	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
27...	--	--	--	--	--	--	--	--	--	--	16
NOV											
15...	--	--	--	--	--	--	--	--	--	--	23
DEC											
14...	43	--	30	--	18	15	7.3	130	0	107	38
JAN											
24...	33	--	29	--	17	14	5.5	130	0	107	23
FEB											
23...	--	--	--	--	--	--	--	--	--	--	15
MAR											
28...	--	--	--	--	--	--	--	--	--	--	11
APR											
25...	--	2.3	--	1.8	--	10	6.1	--	--	--	12
JUN											
07...	--	--	--	--	--	--	--	--	--	--	28
27...	--	--	--	--	--	--	--	--	--	--	17
JUL											
19...	--	--	--	11	--	--	--	--	--	--	12
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	6.0

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
27...	14	282	100	.44	--	--	.27	--	--	--	50	6500
NOV												
15...	15	171	34	<.10	--	--	.17	--	--	--	20	2500
DEC												
14...	16	248	97	.55	--	--	.15	<3	<10	<3	<10	7700
JAN												
24...	20	196	29	.31	--	--	.17	<3	<10	<3	<10	2300
FEB												
23...	15	280	95	.27	--	--	.27	--	--	--	30	10600
MAR												
28...	10	267	108	.14	<.10	--	.24	--	--	--	--	--
APR												
25...	9.5	227	208	.38	.09	.53	.54	<10	<10	<3	<10	7800
JUN												
07...	20	264	94	.47	.04	.12	--	--	--	--	--	--
27...	21	286	--	.47	.03	.25	--	--	--	--	--	--
JUL												
19...	14	214	104	.40	.04	.17	--	--	<10	<10	<10	--
AUG												
22...	22	--	64	.17	<.05	.15	.21	--	--	--	--	--
SEP												
26...	9.5	150	59	.20	<.05	.14	--	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	710	--	30	.00	.00	.00	.00	.00	.00	.00	0
NOV												
15...	--	180	--	<10	--	--	--	--	--	--	--	--
DEC												
14...	40	390	<.5	180	--	--	--	--	--	--	--	--
JAN												
24...	<10	220	--	40	--	--	--	--	--	--	--	--
FEB												
23...	--	240	--	30	.00	.00	.00	.00	.00	.00	.00	0
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	--	970	--	50	--	--	--	--	--	--	--	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL												
19...	10	590	--	20	.00	.00	.00	.01	.00	.00	.00	0
AUG												
22...	--	--	--	--	--	--	.00	--	.00	.00	.02	0
SEP												
26...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020203, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
27...	9827	9827	410	7.9	13.0	10	8.2	2.6	340	--	--
NOV											
15...	9827	9827	341	8.0	7.0	30	9.8	1.5	480	--	--
DEC											
14...	9827	9827	383	8.1	5.0	5	11.6	3.9	--	--	190
JAN											
24...	9827	9827	--	--	--	--	--	--	<20	<7	--
FEB											
23...	9827	9827	--	--	--	--	--	--	<20	--	--
MAR											
28...	9827	9827	190	7.5	17.0	250	7.0	3.1	--	--	--
JUN											
07...	9827	9827	291	7.8	25.0	50	6.2	3.8	--	--	--
27...	9827	9827	322	7.8	27.0	60	7.0	4.8	--	--	--
JUL											
19...	9827	9827	270	7.9	30.0	--	7.0	3.8	350	--	--
AUG											
22...	9827	9827	--	8.2	28.0	--	7.8	4.3	--	--	--
SEP											
26...	9827	9827	300	7.7	25.0	30	6.9	5.1	21000	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
27...	--	--	--	--	--	--	--	--	--	19
NOV										
15...	--	--	--	--	--	--	--	--	--	21
DEC										
14...	18	41	--	20	13	2.7	210	0	172	21
JAN										
24...	--	--	--	--	--	--	--	--	--	--
FEB										
23...	--	--	--	--	--	--	--	--	--	--
MAR										
28...	--	--	--	--	--	--	--	--	--	12
JUN										
07...	--	--	--	--	--	--	--	--	--	18
27...	--	--	--	--	--	--	--	--	--	10
JUL										
19...	--	--	9.0	--	--	--	--	--	--	13
AUG										
22...	--	--	--	--	--	--	--	--	--	--
SEP										
26...	--	--	--	--	--	--	--	--	--	12

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
27...	10	256	11	.25	--	--	.08	--	--	--	50	890
NOV												
15...	9.5	223	40	.18	--	--	.13	--	--	--	20	2200
DEC												
14...	9.5	244	18	<.10	--	--	.11	<3	<10	<3	<10	720
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	6.0	247	106	.33	<.10	--	.30	--	--	--	<10	6200
JUN												
07...	8.5	200	209	.35	.04	.14	--	--	--	--	--	--
27...	8.5	216	--	.19	.03	.15	--	--	--	--	--	--
JUL												
19...	8.0	193	50	.18	.04	.16	--	--	<10	10	<10	--
AUG												
22...	13	--	35	<.05	<.05	.16	.25	--	--	--	--	--
SEP												
26...	8.5	212	80	.11	<.05	.22	--	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	130	--	20	.00	.00	.00	.00	.00	.00	.00	0
NOV												
15...	--	210	--	<10	--	--	--	--	--	--	--	--
DEC												
14...	20	99	<.5	100	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
28...	--	220	--	40	--	--	--	--	--	--	--	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL												
19...	10	150	--	930	.00	.00	.00	.00	.00	.00	.00	0
AUG												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.02	0
SEP												
26...	--	--	--	--	--	--	--	--	--	--	--	--

07047970 MISSISSIPPI RIVER AT HELENA, AR

LOCATION.--Lat 34°31'26", long 90°35'02", Phillips County, Hydrologic Unit 08020100, on right bank at railroad ferry landing at Helena, 10.0 mi (16.1 km) downstream from St. Francis River, and at mile 666.3 (1,072.1 km), 1962 adjustment.

DRAINAGE AREA.--941,700 mi^2 (2,439,000 km^2), approximately.

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. Gage-height records since 1871 are contained in reports of Mississippi River Commission and National Weather Service. Intermittent records of discharge since 1879 and daily discharge since January 1928, in reports of Mississippi River Commission.

GAGE.--Nonrecording gage. Datum of gage is 141.70 ft (43.190 m) above mean sea level, supplementary adjustment of 1958.

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

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--48 years, 484,400 ft^3/s (13,700 m^3/s), 350,900,000 acre-ft/yr (433 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,968,000 ft^3/s (55,700 m^3/s) Feb. 12, 1937; maximum gage height, 60.21 ft (18.352 m) Feb. 12-14, 1937; minimum discharge, 81,000 ft^3/s (2,290 m^3/s) Aug. 26, 1936. A discharge of 2,041,000 ft^3/s (57,800 m^3/s) was observed Apr. 23, 1912.
Maximum stage since at least 1828, that of Feb. 12-14, 1937.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 1,790,000 ft^3/s (50,700 m^3/s) Apr. 7; maximum gage height, 47.94 ft (14.612 m) Apr. 9; minimum daily discharge, 203,000 ft^3/s (5,750 m^3/s) Oct. 29.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 932,000 ft^3/s (26,400 m^3/s) Mar. 1, gage height, 33.20 ft (10.119 m); minimum daily, 139,000 ft^3/s (3,940 m^3/s) Sept. 22.

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	254000	204000	440000	512000	732000	1010000	1570000	966000	585000	475000	301000	255000
2	252000	205000	440000	545000	729000	1050000	1610000	1010000	574000	486000	289000	267000
3	260000	205000	427000	575000	740000	1070000	1660000	1060000	560000	495000	275000	285000
4	269000	212000	417000	612000	777000	1090000	1710000	1080000	545000	500000	264000	300000
5	274000	222000	412000	668000	828000	1100000	1730000	1100000	534000	495000	265000	313000
6	277000	230000	413000	719000	866000	1100000	1750000	1110000	537000	478000	270000	329000
7	277000	249000	420000	733000	902000	1100000	1770000	1120000	545000	455000	271000	349000
8	268000	288000	434000	755000	918000	1100000	1750000	1130000	550000	445000	265000	363000
9	257000	357000	458000	764000	925000	1090000	1730000	1140000	548000	447000	259000	359000
10	253000	429000	479000	769000	933000	1090000	1710000	1140000	541000	457000	259000	337000
11	245000	475000	494000	774000	939000	1080000	1680000	1140000	530000	460000	263000	314000
12	235000	466000	505000	775000	942000	1080000	1710000	1130000	521000	446000	266000	303000
13	230000	446000	507000	767000	942000	1100000	1680000	1120000	518000	429000	264000	299000
14	229000	429000	512000	779000	941000	1110000	1620000	1120000	521000	420000	255000	294000
15	225000	419000	526000	823000	940000	1100000	1550000	1110000	525000	413000	245000	292000
16	220000	409000	539000	863000	936000	1110000	1510000	1090000	523000	401000	236000	293000
17	221000	416000	545000	890000	925000	1130000	1450000	1070000	516000	382000	233000	295000
18	226000	413000	551000	916000	898000	1150000	1290000	1030000	510000	365000	231000	303000
19	233000	418000	557000	931000	883000	1200000	1160000	974000	512000	353000	238000	317000
20	242000	420000	557000	928000	857000	1240000	1020000	919000	516000	345000	251000	324000
21	249000	418000	547000	916000	838000	1280000	891000	866000	522000	339000	263000	318000
22	251000	407000	533000	896000	825000	1320000	792000	822000	531000	338000	274000	310000
23	250000	406000	524000	868000	828000	1350000	729000	788000	535000	339000	285000	308000
24	247000	407000	516000	837000	837000	1380000	689000	763000	533000	341000	287000	313000
25	241000	406000	510000	810000	846000	1410000	671000	739000	527000	346000	271000	327000
26	229000	407000	506000	788000	883000	1430000	671000	716000	519000	353000	254000	348000
27	216000	411000	502000	775000	931000	1440000	702000	692000	506000	353000	242000	366000
28	208000	419000	499000	771000	970000	1480000	768000	660000	494000	345000	232000	376000
29	203000	427000	494000	772000	---	1520000	845000	631000	478000	336000	225000	382000
30	205000	432000	493000	763000	---	1540000	913000	608000	469000	328000	230000	396000
31	205000	---	495000	747000	---	1550000	---	594000	---	314000	244000	---
TOTAL	7451000	11052000	15252000	24041000	24511000	37800000	39331000	29438000	15825000	12479000	8007000	9635000
MEAN	240400	368400	492000	775500	875400	1219000	1311000	949600	527500	402500	258300	321200
MAX	277000	475000	557000	931000	970000	1550000	1770000	1140000	585000	500000	301000	396000
MIN	203000	204000	412000	512000	729000	1010000	671000	594000	469000	314000	225000	255000
AC-FT	14780000	21920000	30250000	47690000	48620000	74980000	78010000	58390000	31390000	24750000	15880000	19110000

CAL YR 1974 TOTAL 247157000 MEAN 677100 MAX 1500000 MIN 203000 AC-FT 490200000
WTR YR 1975 TOTAL 234822000 MEAN 643300 MAX 1770000 MIN 203000 AC-FT 465800000

07047970 MISSISSIPPI RIVER AT HELENA, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424000	455000	365000	525000	557000	931000	717000	413000	339000	369000	275000	180000
2	448000	420000	377000	570000	592000	929000	723000	399000	312000	365000	272000	186000
3	452000	390000	387000	610000	614000	924000	732000	380000	291000	362000	259000	184000
4	434000	369000	401000	636000	631000	921000	740000	362000	273000	359000	249000	183000
5	401000	346000	435000	657000	645000	914000	745000	360000	259000	362000	248000	192000
6	360000	328000	480000	684000	649000	894000	746000	369000	264000	372000	253000	192000
7	319000	320000	519000	721000	635000	862000	746000	374000	271000	394000	258000	181000
8	293000	313000	536000	752000	608000	830000	737000	380000	274000	404000	255000	179000
9	281000	305000	541000	776000	569000	823000	721000	395000	277000	402000	242000	180000
10	270000	299000	527000	792000	526000	816000	698000	414000	282000	387000	220000	179000
11	262000	301000	501000	804000	486000	810000	673000	431000	295000	368000	206000	174000
12	263000	307000	478000	810000	453000	807000	640000	435000	316000	353000	203000	177000
13	271000	311000	464000	807000	429000	798000	597000	420000	333000	337000	204000	178000
14	279000	316000	453000	795000	415000	776000	554000	393000	345000	326000	202000	179000
15	283000	322000	444000	764000	406000	747000	518000	368000	358000	321000	200000	177000
16	291000	325000	437000	715000	399000	717000	489000	346000	367000	311000	199000	164000
17	297000	332000	427000	654000	394000	691000	462000	331000	370000	299000	191000	162000
18	303000	353000	419000	595000	407000	673000	436000	312000	372000	298000	183000	157000
19	303000	391000	423000	555000	442000	658000	418000	299000	367000	307000	184000	154000
20	309000	439000	446000	542000	494000	646000	403000	303000	363000	309000	190000	149000
21	340000	472000	482000	541000	578000	635000	389000	321000	360000	300000	198000	143000
22	409000	483000	515000	544000	672000	628000	451000	344000	360000	283000	208000	139000
23	491000	473000	535000	583000	741000	615000	508000	373000	370000	271000	209000	145000
24	546000	450000	538000	521000	791000	600000	522000	403000	390000	262000	201000	147000
25	576000	419000	534000	500000	834000	596000	526000	428000	407000	249000	195000	146000
26	587000	393000	526000	474000	871000	598000	526000	443000	409000	238000	180000	145000
27	584000	375000	516000	453000	901000	610000	515000	451000	399000	238000	172000	146000
28	573000	366000	499000	438000	919000	633000	495000	447000	382000	245000	169000	147000
29	553000	360000	482000	441000	927000	682000	473000	435000	368000	254000	169000	148000
30	523000	357000	471000	469000	---	706000	453000	411000	370000	262000	172000	150000
31	489000	---	483000	513000	---	713000	---	375000	---	270000	176000	---
TOTAL	12214000	11090000	14641000	19241000	17585000	23183000	17353000	11915000	10143000	9877000	6542000	4963000
MEAN	394000	369700	472300	620700	606400	747800	578400	384400	338100	318600	211000	165400
MAX	587000	483000	541000	810000	927000	931000	746000	451000	409000	404000	275000	192000
MIN	262000	299000	365000	438000	394000	596000	389000	299000	259000	238000	169000	139000
AC-FT	24230000	22000000	29040000	38160000	34880000	45980000	34420000	23630000	20120000	19590000	12980000	9844000

CAL YR 1975 TOTAL 239012000 MEAN 654800 MAX 1770000 MIN 225000 AC-FT 474100000
WTR YR 1976 TOTAL 158747000 MEAN 433700 MAX 931000 MIN 139000 AC-FT 314900000

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, Hydrologic Unit 11010001, 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 1,232.00 ft (375.514 m) above mean sea level. Prior to Oct. 20, 1945, nonrecording gage at present site and datum. October 1945 to September 30, 1976, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years, 110 ft^3/s (3.12 m^3/s), 18.00 in/yr (457 mm/yr), 79,700 acre-ft/yr (98.3 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)
Mar. 27	1230	*7,600	215	9.72	2.963
Sept. 29	0545	3,610	102	6.80	2.073

Minimum discharge, 0.17 ft^3/s (0.005 m^3/s) Oct. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	14	5.2	5.8	27	79	184	12	5.0	20	18	7.5
2	.70	13	5.3	5.7	30	63	174	11	5.0	22	14	5.3
3	.20	12	5.9	5.6	31	76	137	11	4.9	25	12	4.3
4	.45	11	5.9	5.5	30	98	115	9.8	5.1	21	10	4.0
5	.65	9.7	6.4	5.4	36	80	93	9.4	5.2	16	9.0	3.6
6	.56	9.4	75	5.3	40	65	77	8.9	4.8	14	7.7	3.4
7	.18	8.9	92	5.1	39	55	66	7.9	4.9	13	6.7	3.2
8	.27	7.8	44	5.0	38	48	58	7.8	4.9	12	5.7	2.9
9	.40	7.7	28	5.0	33	43	52	8.0	4.9	11	5.0	2.5
10	.51	7.9	21	5.4	29	39	46	8.3	4.9	11	4.5	2.4
11	.34	11	18	5.0	34	378	41	8.3	4.9	11	4.2	3.0
12	.34	11	16	4.7	53	401	37	8.2	5.4	7.4	3.6	3.8
13	.37	11	14	4.5	59	209	34	7.9	7.0	3.4	13	4.0
14	.34	13	13	5.0	51	144	31	7.5	4.6	2.7	32	5.3
15	.40	13	12	5.4	41	110	29	6.9	3.7	2.4	16	12
16	.51	12	11	5.0	34	86	28	6.2	2.9	1.8	11	15
17	.47	11	9.9	4.7	30	73	26	5.8	2.4	1.7	57	13
18	.65	11	9.4	4.4	27	67	25	6.8	1.9	1.7	56	13
19	.81	10	8.7	4.2	24	57	25	6.8	1.5	1.6	31	51
20	.85	10	8.2	4.0	22	49	24	8.2	1.1	3.7	23	24
21	.82	10	7.6	4.2	20	42	23	9.4	.43	6.5	17	19
22	.68	8.7	7.4	4.5	19	38	22	8.3	.41	8.4	14	16
23	.82	6.6	7.2	6.0	22	34	21	7.4	.30	7.9	12	15
24	1.2	5.9	7.0	7.3	31	30	20	6.5	.57	4.0	10	19
25	1.3	6.2	6.8	8.5	30	28	18	6.5	.97	3.3	8.3	18
26	1.3	6.5	6.6	10	120	27	17	8.3	1.6	7.1	6.4	14
27	1.4	6.0	6.4	18	160	2990	15	6.5	1.8	24	5.2	15
28	1.4	5.8	6.2	26	103	2140	14	6.0	1.6	28	5.2	19
29	8.1	5.9	6.1	27	---	644	13	5.5	1.7	25	10	1120
30	12	5.6	6.0	28	---	352	12	5.5	1.7	48	23	210
31	13	---	5.9	26	---	237	---	5.0	---	28	11	---
TOTAL	52.42	281.6	482.1	266.2	1213	8782	1477	241.6	96.08	392.6	461.5	1648.2
MEAN	1.69	9.39	15.6	8.59	43.3	283	49.2	7.79	3.20	12.7	14.9	54.9
MAX	13	14	92	28	160	2990	184	12	7.0	48	57	1120
MIN	.18	5.6	5.2	4.0	19	27	12	5.0	.30	1.6	3.6	2.4
CFSM	.02	.11	.19	.10	.52	3.41	.59	.09	.04	.15	.18	.66
IN.	.02	.13	.22	.12	.54	3.93	.66	.11	.04	.18	.21	.74
AC-FT	104	559	956	528	2410	17420	2930	479	191	779	915	3270

CAL YR 1976 TOTAL 23760.12 MEAN 64.9 MAX 4440 MIN .18 CFSM .78 IN 10.64 AC-FT 47130
WTR YR 1977 TOTAL 15394.30 MEAN 42.2 MAX 2990 MIN .18 CFSM .51 IN 6.89 AC-FT 30530

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, Hydrologic Unit 1101001, 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.--Chemical analyses: April 1974 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
19...	9827	9827	1.0	276	7.7	12.0	10	7.1	4.0	500	360	--
NOV												
23...	9827	9827	12	183	7.4	6.0	15	9.5	1.7	--	--	--
DEC												
07...	9827	9827	--	--	--	--	--	--	--	60	--	--
27...	9827	9827	9.0	153	7.7	3.0	5	9.3	2.3	--	--	64
JAN												
26...	9827	9827	14	161	7.6	2.0	5	12.3	4.8	580	--	--
FEB												
15...	9827	9827	60	128	7.7	4.0	15	11.6	1.9	<10	10	--
MAR												
16...	9827	9827	124	104	7.5	13.0	40	9.8	3.3	--	--	36
APR												
19...	9827	9827	36	137	7.7	19.5	10	8.1	6.0	--	--	--
MAY												
17...	9827	9827	8.0	156	7.6	24.0	10	7.1	>7.1	<10	--	--
JUN												
14...	9827	9827	6.0	191	7.7	26.0	20	5.7	--	--	--	--
JUL												
19...	9827	9827	2.0	230	7.7	28.5	10	6.3	4.4	250	--	--
AUG												
16...	9827	9827	16	189	7.9	28.0	--	6.8	4.2	2100	--	--
SEP												
20...	9827	9827	--	--	--	--	--	--	--	16000	--	--
20...	9827	9827	--	--	7.5	19.5	60	6.2	4.4	--	--	51

DATE	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	--	--	--	--	--	--	--	--	--	--	26
NOV											
23...	--	--	--	--	--	--	--	--	--	--	21
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	16	--	23	--	1.0	5.2	1.3	58	0	48	14
JAN											
26...	--	--	--	--	--	--	--	--	--	--	75
FEB											
15...	--	--	--	--	--	--	--	--	--	--	14
MAR											
16...	4	--	11	--	2.0	3.3	1.5	39	0	32	15
APR											
19...	--	--	--	--	--	--	--	--	--	--	12
MAY											
17...	--	--	--	--	--	--	--	--	--	--	11
JUN											
14...	--	--	--	3.0	--	5.9	1.7	--	--	--	12
JUL											
19...	--	--	--	--	--	--	--	--	--	--	18
AUG											
16...	--	--	--	--	--	--	--	--	--	--	7.0
SEP											
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	10	--	3.0	--	5.0	4.2	--	--	--	20

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
19...	14	165	18	<.10	--	--	.07	--	--	--	--	--
NOV												
23...	8.0	103	41	.13	--	--	.04	--	--	--	--	--
DEC												
27...	8.0	90	28	.70	--	--	.03	<3	<10	<3	<10	280
JAN												
26...	36	194	8	.46	--	--	.12	--	--	--	--	--
FEB												
15...	10	85	14	.22	--	--	.03	--	--	--	--	--
MAR												
16...	5.0	76	35	.43	--	--	.03	--	<10	--	<10	2800
APR												
19...	5.0	81	16	.15	--	.17	.05	--	--	--	--	--
MAY												
17...	5.5	91	20	--	--	.05	.05	--	--	--	--	--
JUN												
14...	6.0	123	31	.12	<.05	--	.05	--	<10	<3	<10	610
JUL												
19...	7.5	147	37	.00	.01	.06	--	--	--	--	--	--
AUG												
16...	7.0	123	34	.10	<.05	<.05	--	--	--	--	--	--
SEP												
20...	6.5	185	165	.49	.06	.32	.38	--	<10	20	<10	7000

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
27...	20	64	<.5	<10	--	--	--	--	--	--	--	--
JAN												
26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
16...	<10	110	--	<10	--	--	--	--	--	--	--	--
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	<10	130	--	--	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	<10	370	--	30	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010001, 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.--14 years, 531 ft^3/s (15.0 m^3/s), 18.21 in/yr (463 mm/yr), 384,700 acre-ft/yr (474 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, 1.1 ft^3/s (0.031 m^3/s) June 12, 1977, gage height, 0.93 ft (0.283 m).

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)
Mar. 27	2000	*18,900	535	20.94	6.383
Sept. 29	1300	11,700	331	16.57	5.051

Minimum discharge, 1.1 ft^3/s (0.031 m^3/s) June 12, gage height, 0.93 ft (0.283 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	46	96	42	129	412	1090	98	6.1	706	40	19
2	8.7	48	86	40	123	359	1130	87	5.6	434	29	15
3	7.2	47	76	39	121	573	780	84	5.2	199	25	10
4	8.1	61	69	37	144	1570	617	84	4.1	133	23	7.5
5	28	83	66	36	212	1010	513	66	3.4	95	17	5.4
6	18	78	203	36	250	749	418	64	2.9	70	14	4.3
7	9.9	73	610	35	233	586	359	55	2.3	52	9.4	3.5
8	8.5	71	450	33	215	476	313	62	2.1	69	6.7	3.6
9	7.4	62	328	54	202	401	279	88	1.9	55	5.5	6.7
10	6.8	63	256	37	195	362	246	63	1.7	286	3.9	6.8
11	7.2	111	223	32	211	1370	220	48	1.5	145	2.8	13
12	6.8	83	204	31	332	2940	195	42	1.9	85	3.2	26
13	7.5	79	186	32	516	1500	177	38	28	56	10	18
14	7.7	76	168	35	422	1030	167	36	21	41	57	34
15	11	75	157	38	346	793	154	34	17	30	78	37
16	13	73	145	36	292	619	143	27	9.7	23	43	50
17	15	69	134	32	258	501	131	23	4.8	21	139	77
18	16	69	124	31	231	463	131	21	3.0	15	149	77
19	19	69	113	29	203	407	129	19	6.6	18	124	661
20	19	70	97	28	183	353	123	24	50	21	92	272
21	19	69	94	29	169	304	139	38	38	85	68	170
22	21	67	85	31	165	277	229	23	9.5	50	56	124
23	24	61	79	44	196	246	193	22	4.7	42	44	104
24	27	57	76	52	232	223	172	18	67	24	36	138
25	28	61	64	54	227	199	158	15	58	12	30	206
26	29	64	65	65	419	188	141	16	21	12	24	169
27	29	108	61	92	771	9900	129	15	26	24	22	147
28	30	150	52	128	507	13000	113	12	22	50	14	201
29	33	128	51	147	---	4280	105	11	47	36	35	7130
30	36	111	45	150	---	2200	100	10	85	41	29	2230
31	46	---	44	138	---	1460	---	7.5	---	61	34	---
TOTAL	556.3	2282	4507	1643	7504	48751	8794	1250.5	557.0	2991	1263.5	11965.8
MEAN	17.9	76.1	145	53.0	268	1573	293	40.3	18.6	96.5	40.8	399
MAX	46	150	610	150	771	13000	1130	98	85	706	149	7130
MIN	6.8	46	44	28	121	188	100	7.5	1.5	12	2.8	3.5
CFSM	.05	.19	.36	.13	.67	3.93	.73	.10	.05	.24	.10	1.00
IN.	.05	.21	.42	.15	.70	4.53	.82	.12	.05	.28	.12	1.11
AC-FT	1100	4530	8940	3260	14880	96700	17440	2480	1100	5930	2510	23730

CAL YR 1976 TOTAL 102438.6 MEAN 280 MAX 10000 MIN 4.3 CFSM .70 IN 9.53 AC-FT 203200
WTR YR 1977 TOTAL 92065.1 MEAN 252 MAX 13000 MIN 1.5 CFSM .63 IN 8.56 AC-FT 182600

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, Hydrologic Unit 1101001, 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 mi² (1,067 km²).

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	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)
OCT												
18...	810	--	--	--	--	--	--	30	--	--	--	--
18...	810	1028	.0	--	--	--	--	--	--	--	--	--
18...	810	1028	3.0	--	--	--	--	--	--	--	>8.4	--
18...	810	810	3.0	410	6.4	13.5	70	--	2.0	--	--	--
19...	9827	9827	--	413	7.6	11.5	25	--	3.1	28	7.6	380
NOV												
23...	9827	9827	--	140	7.4	6.5	10	--	8.8	71	1.6	--
DEC												
07...	9827	9827	--	--	--	--	--	--	--	--	--	600
27...	9827	9827	--	110	7.5	--	10	--	10.2	--	3.1	--
JAN												
26...	9827	9827	--	224	7.4	5.0	5	--	10.9	85	2.3	<10
FEB												
15...	9827	9827	--	90	7.4	3.0	35	--	12.0	89	1.8	<7
MAR												
16...	9827	9827	--	66	7.3	12.0	60	--	10.2	94	1.3	--
APR												
19...	9827	9827	--	127	7.4	20.0	10	--	9.8	74	4.6	--
20...	810	1028	.0	--	--	--	--	--	--	--	--	--
20...	810	--	--	--	--	--	--	18	--	--	--	--
20...	810	1028	4.0	--	--	--	--	--	--	--	4.6	--
20...	810	810	4.0	140	7.5	20.5	15	--	5.8	--	--	--
MAY												
17...	9827	9827	--	171	7.4	24.0	10	--	4.7	55	>4.7	<4
JUN												
14...	9827	9827	--	353	7.5	26.0	30	--	4.6	56	--	--
JUL												
19...	9827	9827	--	170	7.6	28.0	15	--	5.0	63	3.9	360
AUG												
16...	9827	9827	--	152	7.7	28.5	--	--	5.4	69	4.5	1700
SEP												
20...	9827	9827	--	--	7.4	20.0	20	--	6.5	71	4.3	25000
20...	810	--	--	--	--	--	--	6.0	--	--	--	--
20...	810	1028	.0	--	--	--	--	--	--	--	--	--
20...	810	1028	4.0	--	--	--	--	--	--	--	5.6	--
20...	810	810	4.0	110	7.9	23.5	170	--	5.3	--	--	--

07048700 WHITE RIVER NEAR GOSHEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	FECAL COLI-FORM (COL. PER 100 ML) (31616)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	TOTAL CAL-CIUM (CA) (MG/L) (00916)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)
OCT												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	42	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	6.5
18...	--	--	--	108	--	--	--	90	--	--	--	--
19...	34	--	30	--	--	--	--	--	--	--	--	--
NOV												
23...	<5	--	--	--	--	--	--	--	--	--	--	--
DEC												
07...	4	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	42	3	--	12	--	--	3.0	5.5	1.6
JAN												
26...	130	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	<4	--	<5	--	--	--	--	--	--	--	--	--
MAR												
16...	--	--	--	15	0	--	3.9	--	--	1.3	2.5	1.4
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	120	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	2.0
20...	--	--	--	52	--	--	--	40	--	--	--	--
MAY												
17...	96	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	340	--	--	--	--	--	--	--	3.0	--	26	5.9
JUL												
19...	15	--	--	--	--	--	--	--	--	--	--	--
AUG												
16...	260	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	19000	--	--	37	--	8.0	--	--	2.0	--	4.0	2.7
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	8860	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	2.2
20...	--	--	--	58	--	--	--	42	--	--	--	--

DATE	BICAR-BONATE (HCO3) (MG/L) (00440)	CAR-BONATE (CO3) (MG/L) (00445)	ALKA-LINITY AS CACO3 (MG/L) (00410)	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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO-GEN (N) (MG/L) (00605)
OCT												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	25	30	--	--	--	--	.38	7.9	.90
18...	--	--	140	--	--	--	--	--	--	--	--	--
19...	--	--	--	22	33	224	79	.23	--	--	--	--
NOV												
23...	--	--	--	13	7.5	81	9	.14	--	--	--	--
DEC												
07...	--	--	--	--	--	--	--	--	--	--	--	--
27...	48	0	39	9.0	6.5	74	7	.58	--	--	--	--
JAN												
26...	--	--	--	22	20	111	13	.50	--	--	--	--
FEB												
15...	--	--	--	9.0	6.5	62	25	.52	--	--	--	--
MAR												
16...	26	0	21	11	4.0	58	44	.51	--	--	--	--
APR												
19...	--	--	--	10	6.5	75	26	.75	--	--	.67	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	12	6.1	--	--	--	--	.74	.48	.17
20...	--	--	38	--	--	--	--	--	--	--	--	--
MAY												
17...	--	--	--	12	10	98	23	--	--	--	.68	--
JUN												
14...	--	--	--	23	28	205	24	.75	.17	--	--	--
JUL												
19...	--	--	--	11	9.5	115	35	.83	.13	--	.59	--
AUG												
16...	--	--	--	5.0	7.5	100	45	.53	.12	--	.54	--
SEP												
20...	--	--	--	10	6.5	108	94	.23	<.05	--	.61	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	7.5	3.8	--	--	--	--	.33	.45	.21
20...	--	--	42	--	--	--	--	--	--	--	--	--

07048700 WHITE RIVER NEAR GOSHEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	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												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	8.8	9.2	41	3.7	2.5	190	3	--	0	20	1700	100
18...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	2.5	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	.29	--	--	--	--	--	--	--	--
DEC												
07...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	.38	--	--	<3	<10	<3	<10	480	--
JAN												
26...	--	--	--	.67	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	.20	--	--	--	--	--	--	--	--
MAR												
16...	--	--	--	.07	--	--	--	<10	--	440	2500	190
APR												
19...	--	--	--	.24	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.65	1.4	6.2	.15	.14	250	1	--	<10	10	680	<100
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
17...	--	--	--	.46	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	2.7	--	--	--	<10	<3	50	670	<10
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	.42	--	--	--	<10	20	70	4600	<10
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.66	.99	4.4	.33	.18	2100	2	--	20	80	4500	<100
20...	--	--	--	--	--	--	--	--	--	--	--	--

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)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	1100	.0	<50	20	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
07...	--	--	--	--	--	--	--	--	--	--	--	--
27...	180	<.5	--	<10	--	--	--	--	--	--	--	--
JAN												
26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
16...	120	--	--	650	--	--	--	--	--	--	--	--
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	160	.4	<50	60	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	330	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	380	--	--	70	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	450	.1	<50	110	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010001, 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 mi² (3,087 km²).

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 hm³), 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 km³)
Top of designated power pool	1,120.00 (341.376 m)	1,651,900 (2.04 km³)
Crest of gated spillway	1,093.00 (333.146 m)	1,007,200 (1.24 km³)
Bottom of designated power pool	1,077.00 (328.270 m)	726,800 (896 hm³)
Bottom of lowest outlet	938.06 (285.921 m)	1,310 (1.62 hm³)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,957,000 acre-ft (2.41 km³) 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 hm³) Dec. 6-8, 1965, elevation, 1,079.90 ft (329.154 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,370,000 acre-ft (1.69 km³) Oct. 1, elevation, 1,109.36 ft (338.133 m); minimum, 1,004,000 acre-ft (1.24 km³) Jan. 22, elevation, 1,092.81 ft (333.088 m).

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

1,092	987.5	1,104	1,242
1,097	1,088	1,108	1,337
1,100	1,152	1,110	1,386

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1366000	1258000	1152000	1099000	1005000	1046000	1262000	1289000	1289000	1303000	1299000	1308000
2	1365000	1255000	1146000	1099000	1006000	1033000	1267000	1289000	1289000	1305000	1298000	1308000
3	1365000	1252000	1142000	1090000	1007000	1036000	1271000	1290000	1289000	1306000	1298000	1308000
4	1361000	1247000	1142000	1085000	1007000	1039000	1273000	1290000	1289000	1306000	1298000	1307000
5	1355000	1238000	1142000	1081000	1008000	1042000	1273000	1290000	1289000	1304000	1298000	1307000
6	1355000	1236000	1141000	1073000	1008000	1045000	1275000	1290000	1287000	1304000	1297000	1307000
7	1354000	1235000	1139000	1064000	1009000	1047000	1276000	1290000	1287000	1304000	1297000	1307000
8	1353000	1230000	1137000	1063000	1010000	1050000	1278000	1291000	1286000	1304000	1296000	1307000
9	1353000	1228000	1136000	1063000	1011000	1051000	1279000	1291000	1286000	1304000	1296000	1306000
10	1353000	1224000	1132000	1050000	1011000	1052000	1280000	1292000	1285000	1304000	1295000	1306000
11	1350000	1221000	1134000	1042000	1012000	1057000	1281000	1292000	1284000	1306000	1295000	1307000
12	1346000	1216000	1134000	1031000	1013000	1067000	1281000	1292000	1284000	1305000	1295000	1307000
13	1340000	1216000	1132000	1022000	1015000	1072000	1280000	1292000	1285000	1304000	1296000	1307000
14	1336000	1216000	1128000	1021000	1016000	1078000	1281000	1292000	1286000	1304000	1296000	1307000
15	1334000	1211000	1127000	1020000	1016000	1080000	1281000	1292000	1285000	1303000	1297000	1307000
16	1333000	1208000	1124000	1019000	1017000	1083000	1282000	1292000	1284000	1303000	1297000	1307000
17	1332000	1207000	1123000	1013000	1018000	1086000	1283000	1293000	1285000	1303000	1305000	1307000
18	1323000	1205000	1123000	1008000	1019000	1088000	1283000	1292000	1284000	1302000	1307000	1307000
19	1313000	1199000	1123000	1005000	1020000	1089000	1284000	1292000	1287000	1301000	1308000	1307000
20	1306000	1199000	1118000	1004000	1020000	1090000	1284000	1292000	1290000	1301000	1309000	1308000
21	1297000	1198000	1113000	1004000	1022000	1091000	1285000	1292000	1290000	1301000	1309000	1308000
22	1291000	1191000	1110000	1004000	1023000	1092000	1286000	1292000	1290000	1300000	1310000	1308000
23	1289000	1182000	1107000	1005000	1026000	1093000	1286000	1291000	1290000	1300000	1310000	1309000
24	1287000	1177000	1106000	1005000	1025000	1094000	1288000	1290000	1290000	1300000	1309000	1310000
25	1282000	1177000	1106000	1006000	1025000	1092000	1287000	1290000	1292000	1300000	1309000	1311000
26	1280000	1176000	1106000	1006000	1026000	1092000	1287000	1290000	1293000	1300000	1309000	1311000
27	1275000	1176000	1105000	1006000	1028000	1132000	1288000	1290000	1295000	1300000	1308000	1313000
28	1270000	1174000	1103000	1004000	1030000	1214000	1288000	1291000	1297000	1300000	1309000	1314000
29	1263000	1167000	1103000	1005000	---	1241000	1288000	1291000	1298000	1300000	1310000	1349000
30	1264000	1159000	1101000	1004000	---	1250000	1289000	1291000	1299000	1300000	1310000	1364000
31	1263000	---	1099000	1005000	---	1256000	---	1290000	---	1300000	1310000	---
MAX	1366000	1258000	1152000	1099000	1030000	1256000	1289000	1293000	1299000	1306000	1310000	1364000
MIN	1263000	1159000	1099000	1004000	1005000	1033000	1262000	1289000	1284000	1300000	1295000	1306000
(†)	1104.90	1100.30	1097.51	1092.88	1094.17	1104.60	1106.01	1106.04	1106.42	1106.44	1106.86	1109.08
(‡)	-108000	-104000	-60000	-94000	+25000	+226000	+33000	+1000	+9000	+1000	+10000	+54000

CAL YR 1976 MAX 1665000 MIN 1099000 ‡ -350000
WTR YR 1977 MAX 1366000 MIN 1004000 ‡ -7000

† 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
18...	1028	--	--	--	--	--	--	156	--	--	--	--
18...	1028	1028	.0	130	8.1	18.5	--	--	8.4	--	--	--
18...	1028	1028	10	130	8.2	18.5	--	--	8.4	--	--	--
18...	1028	1028	20	130	8.2	18.5	--	--	8.4	--	--	--
18...	1028	1028	30	130	8.1	18.5	--	--	8.1	--	--	--
18...	1028	1028	40	135	8.1	18.5	--	--	8.1	--	--	--
18...	1028	1028	50	135	8.0	18.0	--	--	7.4	--	--	--
18...	1028	1028	60	130	7.4	17.0	--	--	1.8	--	--	--
18...	1028	1028	65	130	7.3	16.0	--	--	1.2	--	--	--
18...	1028	1028	70	130	7.3	15.5	--	--	.9	--	--	--
18...	1028	1028	80	130	7.3	14.5	--	--	.9	--	--	--
18...	1028	1028	90	130	7.3	13.5	--	--	1.2	--	--	--
18...	1028	1028	100	130	7.4	12.5	--	--	1.7	--	--	--
18...	1028	1028	110	125	7.4	11.5	--	--	2.2	--	--	--
18...	1028	1028	120	125	7.4	10.5	--	--	1.7	--	--	--
18...	1028	1028	130	130	7.4	10.0	--	--	.8	--	--	--
18...	1028	1028	140	130	7.4	9.5	--	--	.2	--	--	--
18...	1028	1028	150	135	7.4	9.0	--	--	.1	--	--	--
18...	1028	1028	160	140	7.4	8.5	--	--	.1	--	--	--
18...	1028	1028	170	140	7.5	8.0	--	--	.1	--	--	--
18...	1028	1028	172	145	7.5	8.0	--	--	.1	--	--	--
19...	810	--	--	--	--	--	--	240	--	--	--	--
19...	810	1028	.0	--	--	--	--	--	--	--	0	--
19...	810	1028	25	--	--	--	--	--	--	1.6	--	--
19...	810	810	25	150	7.7	17.0	0	--	7.6	--	--	64
19...	810	810	100	120	7.8	12.0	0	--	2.1	--	--	68
19...	810	1028	100	--	--	--	--	--	--	.7	--	--
NOV												
16...	1028	--	--	--	--	--	--	102	--	--	--	--
16...	1028	1028	.0	140	7.6	12.5	--	--	8.4	--	--	--
16...	1028	1028	10	130	7.6	12.5	--	--	8.3	--	--	--
16...	1028	1028	20	125	7.5	12.5	--	--	8.2	--	--	--
16...	1028	1028	30	130	7.5	12.5	--	--	8.2	--	--	--
16...	1028	1028	40	130	7.5	12.5	--	--	8.2	--	--	--
16...	1028	1028	50	130	7.5	12.5	--	--	8.1	--	--	--
16...	1028	1028	60	130	7.5	12.5	--	--	8.1	--	--	--
16...	1028	1028	70	130	7.5	12.5	--	--	8.1	--	--	--
16...	1028	1028	80	130	7.5	12.5	--	--	8.1	--	--	--
16...	1028	1028	90	130	7.4	12.5	--	--	8.1	--	--	--
16...	1028	1028	100	130	6.9	12.0	--	--	.4	--	--	--

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												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	1.2	--	1.4	2.3	.04	.00	.15	.15	.19	.84	.01
19...	54	--	58	--	--	--	--	--	--	--	--	--
19...	50	--	54	--	--	--	--	--	--	--	--	--
19...	--	1.3	--	3.1	2.5	.47	.00	.22	.22	.69	3.1	.01

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	.01	100	1	0	170	40	900	10	.0	<50	180
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	.01	100	2	0	220	200	<100	80	.1	<50	210
NOV											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
NOV								
16...	1028	1028	110	130	6.9	11.5	--	.3
16...	1028	1028	120	130	6.9	11.0	--	.2
16...	1028	1028	130	135	7.0	10.5	--	.2
16...	1028	1028	140	140	7.0	10.0	--	.1
16...	1028	1028	150	145	7.1	9.0	--	.1
16...	1028	1028	160	150	7.2	9.0	--	1.0
16...	1028	1028	170	155	7.2	8.5	--	.1
16...	1028	1028	180	155	7.2	8.5	--	.1
DEC								
14...	1028	--	--	--	--	--	96	--
14...	1028	1028	.0	89	7.6	8.0	--	9.6
14...	1028	1028	10	89	7.5	8.0	--	9.5
14...	1028	1028	20	89	7.5	8.0	--	9.5
14...	1028	1028	30	90	7.5	8.0	--	9.4
14...	1028	1028	40	91	7.5	8.0	--	9.5
14...	1028	1028	50	91	7.5	8.0	--	9.5
14...	1028	1028	60	91	7.5	8.0	--	9.4
14...	1028	1028	70	91	7.5	8.0	--	9.4
14...	1028	1028	80	92	7.5	8.0	--	9.4
14...	1028	1028	90	92	7.5	8.0	--	9.4
14...	1028	1028	100	92	7.5	8.0	--	9.4
14...	1028	1028	110	92	7.5	8.0	--	9.4
14...	1028	1028	120	93	7.4	8.0	--	8.8
14...	1028	1028	130	94	7.4	8.0	--	8.3
14...	1028	1028	140	93	7.4	8.0	--	9.0
14...	1028	1028	150	94	7.4	8.0	--	8.9
14...	1028	1028	160	140	7.2	7.5	--	3.1
14...	1028	1028	170	150	7.2	7.5	--	.3
14...	1028	1028	178	160	7.2	7.5	--	.1
JAN								
26...	1028	--	--	--	--	--	114	--
26...	1028	1028	.0	125	8.1	4.5	--	14.0
26...	1028	1028	10	125	8.1	4.5	--	14.1
26...	1028	1028	20	125	8.1	4.5	--	14.2
26...	1028	1028	30	125	8.1	4.5	--	14.2
26...	1028	1028	40	125	8.0	4.5	--	14.2
26...	1028	1028	50	125	8.0	4.5	--	14.2
26...	1028	1028	60	125	8.0	4.5	--	14.2
26...	1028	1028	70	125	8.0	4.5	--	14.2
26...	1028	1028	80	125	8.0	4.5	--	14.2
26...	1028	1028	90	125	8.0	4.5	--	14.2
26...	1028	1028	100	125	8.0	4.5	--	14.2
26...	1028	1028	110	125	8.0	4.5	--	14.1
26...	1028	1028	120	125	8.0	4.5	--	14.1
26...	1028	1028	130	125	8.0	4.5	--	14.1
26...	1028	1028	140	125	8.0	4.5	--	14.0
26...	1028	1028	150	125	8.0	4.5	--	14.0
26...	1028	1028	160	125	8.0	4.5	--	14.0
FEB								
07...	1028	--	--	--	--	--	132	--
07...	1028	1028	.0	120	8.0	4.0	--	12.4
07...	1028	1028	10	120	8.0	4.0	--	12.4
07...	1028	1028	20	120	8.0	4.0	--	12.4
07...	1028	1028	30	120	8.0	4.0	--	12.4
07...	1028	1028	40	120	8.0	4.0	--	12.4
07...	1028	1028	50	120	8.0	4.0	--	12.4
07...	1028	1028	60	125	7.9	4.0	--	12.4
07...	1028	1028	70	125	7.9	4.0	--	12.4
07...	1028	1028	80	125	7.9	4.0	--	12.4
07...	1028	1028	90	125	7.9	4.0	--	12.4
07...	1028	1028	100	125	7.9	4.0	--	12.4
07...	1028	1028	110	125	7.9	4.0	--	12.4
07...	1028	1028	120	125	7.9	4.0	--	12.4
07...	1028	1028	130	125	7.9	4.0	--	12.3
07...	1028	1028	140	125	7.9	4.0	--	12.3
07...	1028	1028	150	125	7.9	4.0	--	12.2
07...	1028	1028	160	125	7.8	4.0	--	12.2
MAR								
08...	1028	--	--	--	--	--	156	--
08...	1028	1028	.0	125	8.2	6.5	--	13.4
08...	1028	1028	10	125	8.2	6.5	--	13.4
08...	1028	1028	20	125	8.2	6.5	--	13.4
08...	1028	1028	30	125	8.2	6.5	--	13.4
08...	1028	1028	40	125	8.2	6.0	--	13.4
08...	1028	1028	50	125	8.2	6.0	--	13.4
08...	1028	1028	60	130	8.2	6.0	--	13.3
08...	1028	1028	70	130	8.2	6.0	--	13.3
08...	1028	1028	80	130	8.2	6.0	--	13.3
08...	1028	1028	90	130	8.2	6.0	--	13.2
08...	1028	1028	100	130	8.2	6.0	--	13.2

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
MAR												
08...	1028	1028	110	130	8.1	6.0	--	--	13.2	--	--	--
08...	1028	1028	120	130	8.1	5.5	--	--	13.1	--	--	--
08...	1028	1028	130	130	8.1	5.5	--	--	13.0	--	--	--
08...	1028	1028	140	125	8.1	5.5	--	--	12.9	--	--	--
08...	1028	1028	150	125	8.1	5.5	--	--	12.8	--	--	--
08...	1028	1028	160	125	8.0	5.5	--	--	12.7	--	--	--
APR												
05...	1028	--	--	--	--	--	--	84	--	--	--	--
05...	1028	1028	.0	130	8.2	11.0	--	--	11.8	--	--	--
05...	1028	1028	10	130	8.2	11.0	--	--	11.8	--	--	--
05...	1028	1028	20	130	8.1	11.0	--	--	11.8	--	--	--
05...	1028	1028	30	130	8.1	11.0	--	--	11.8	--	--	--
05...	1028	1028	40	130	8.0	11.0	--	--	11.7	--	--	--
05...	1028	1028	50	130	8.0	11.0	--	--	11.7	--	--	--
05...	1028	1028	60	135	8.0	11.0	--	--	11.6	--	--	--
05...	1028	1028	70	135	8.0	11.0	--	--	11.6	--	--	--
05...	1028	1028	75	135	8.0	11.0	--	--	11.6	--	--	--
05...	1028	1028	80	135	7.8	9.0	--	--	11.6	--	--	--
05...	1028	1028	85	135	7.7	8.0	--	--	11.8	--	--	--
05...	1028	1028	90	135	7.7	7.5	--	--	11.8	--	--	--
05...	1028	1028	100	135	7.7	7.0	--	--	11.8	--	--	--
05...	1028	1028	110	135	7.7	6.5	--	--	11.8	--	--	--
05...	1028	1028	120	135	7.7	6.5	--	--	11.9	--	--	--
05...	1028	1028	130	130	7.7	6.0	--	--	11.8	--	--	--
05...	1028	1028	140	130	7.7	6.0	--	--	11.8	--	--	--
05...	1028	1028	150	130	7.6	6.0	--	--	11.8	--	--	--
05...	1028	1028	160	130	7.6	6.0	--	--	11.8	--	--	--
05...	1028	1028	170	130	7.6	6.0	--	--	11.8	--	--	--
17...	810	--	--	--	--	--	--	144	--	--	--	--
17...	810	1028	.0	--	--	--	--	--	--	--	0	--
17...	810	1028	25	--	--	--	--	--	--	2.9	--	--
17...	810	810	25	250	7.7	15.5	3	--	10.7	--	--	64
17...	1028	810	100	--	--	--	--	--	--	1.8	--	--
17...	810	810	100	270	7.7	11.5	10	--	11.1	--	--	66
MAY												
01...	1028	--	--	--	--	--	--	192	--	--	--	--
01...	1028	1028	.0	135	8.2	19.5	--	--	10.6	--	--	--
01...	1028	1028	10	135	8.2	18.5	--	--	10.7	--	--	--
01...	1028	1028	20	135	8.2	17.5	--	--	10.8	--	--	--
01...	1028	1028	30	135	8.1	16.5	--	--	10.8	--	--	--

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)
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
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05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	1.5	--	7.1	3.4	.16	.08	.19	.27	.43	1.9	.01
17...	54	--	62	--	--	--	--	--	--	--	--	--
17...	--	1.5	--	8.9	2.9	.17	.03	.20	.23	.40	1.8	.01
17...	67	--	58	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
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08...	--	--	--	--	--	--	--	--	--	--	--
APR											
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05...	--	--	--	--	--	--	--	--	--	--	--
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05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	.01	70	0	10	<10	40	<100	10	.0	<50	40
17...	--	--	--	--	--	--	--	--	--	--	--
17...	.01	120	0	<10	10	130	100	40	.0	<50	60
17...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)
MAY								
01...	1028	1028	35	125	8.0	14.0	--	11.3
01...	1028	1028	40	130	8.0	12.0	--	11.3
01...	1028	1028	45	130	7.9	11.5	--	11.3
01...	1028	1028	50	130	7.9	10.5	--	11.2
01...	1028	1028	60	130	7.8	10.0	--	11.1
01...	1028	1028	70	130	7.8	9.5	--	11.1
01...	1028	1028	80	130	7.8	8.5	--	11.5
01...	1028	1028	90	130	7.8	7.5	--	11.6
01...	1028	1028	100	130	7.8	7.0	--	11.7
01...	1028	1028	110	130	7.8	7.0	--	11.6
01...	1028	1028	120	125	7.7	6.5	--	11.4
01...	1028	1028	130	125	7.7	6.5	--	11.3
01...	1028	1028	140	125	7.7	6.5	--	11.3
01...	1028	1028	150	125	7.7	6.0	--	11.3
01...	1028	1028	160	125	7.7	6.0	--	10.9
01...	1028	1028	170	125	7.7	6.0	--	10.8
31...	1028	--	--	--	--	--	216	--
31...	1028	1028	.0	140	8.4	26.0	--	9.2
31...	1028	1028	10	140	8.5	26.0	--	9.1
31...	1028	1028	15	140	8.5	25.5	--	9.2
31...	1028	1028	20	135	8.5	22.0	--	10.7
31...	1028	1028	25	135	8.5	18.5	--	11.4
31...	1028	1028	30	135	8.2	14.5	--	11.3
31...	1028	1028	35	130	8.2	13.0	--	11.3
31...	1028	1028	40	130	8.2	12.5	--	11.4
31...	1028	1028	50	130	8.1	11.5	--	11.2
31...	1028	1028	60	130	7.9	10.5	--	10.1
31...	1028	1028	70	130	7.8	9.0	--	10.1
31...	1028	1028	80	130	7.8	8.5	--	10.4
31...	1028	1028	90	125	7.8	7.5	--	10.5
31...	1028	1028	100	125	7.8	7.0	--	10.6
31...	1028	1028	110	125	7.8	7.0	--	10.4
31...	1028	1028	120	125	7.8	7.0	--	10.3
31...	1028	1028	130	125	7.8	6.5	--	10.3
31...	1028	1028	140	125	7.7	6.5	--	10.3
31...	1028	1028	150	125	7.7	6.5	--	10.3
31...	1028	1028	160	125	7.7	6.5	--	10.1
31...	1028	1028	170	125	7.7	6.0	--	9.8
31...	1028	1028	180	125	7.5	6.0	--	9.4
JUN								
27...	1028	--	--	--	--	--	234	--
27...	1028	1028	.0	150	8.4	29.0	--	8.0
27...	1028	1028	5.0	150	8.4	28.0	--	8.1
27...	1028	1028	10	150	8.4	27.0	--	8.1
27...	1028	1028	20	150	8.4	27.0	--	8.1
27...	1028	1028	25	150	8.4	24.5	--	8.3
27...	1028	1028	30	145	8.0	18.0	--	10.2
27...	1028	1028	35	145	7.9	14.5	--	10.3
27...	1028	1028	40	145	7.9	12.5	--	10.4
27...	1028	1028	45	145	7.8	11.5	--	10.0
27...	1028	1028	50	145	7.6	10.5	--	9.4
27...	1028	1028	60	145	7.6	9.5	--	8.8
27...	1028	1028	70	145	7.5	8.5	--	8.5
27...	1028	1028	80	145	7.5	7.5	--	8.6
27...	1028	1028	90	140	7.6	7.0	--	9.2
27...	1028	1028	100	140	7.6	6.5	--	9.4
27...	1028	1028	110	140	7.6	6.5	--	9.3
27...	1028	1028	120	140	7.6	6.5	--	9.3
27...	1028	1028	130	135	7.5	6.0	--	9.0
27...	1028	1028	140	135	7.5	6.0	--	9.0
27...	1028	1028	150	135	7.5	6.0	--	9.0
27...	1028	1028	160	135	7.5	6.0	--	8.7
27...	1028	1028	170	135	7.5	6.0	--	8.4
27...	1028	1028	175	135	7.5	6.0	--	8.3
JUL								
26...	1028	--	--	--	--	--	162	--
26...	1028	1028	.0	160	8.4	29.0	--	8.0
26...	1028	1028	10	160	8.4	29.0	--	7.9
26...	1028	1028	15	160	8.4	29.0	--	7.9
26...	1028	1028	20	160	8.2	27.0	--	8.7
26...	1028	1028	25	155	8.1	22.0	--	9.8
26...	1028	1028	30	150	8.0	18.5	--	10.2
26...	1028	1028	35	145	7.9	16.0	--	10.3
26...	1028	1028	40	140	7.9	13.0	--	10.2
26...	1028	1028	45	140	7.8	11.5	--	9.8
26...	1028	1028	50	140	7.7	11.0	--	9.4
26...	1028	1028	60	145	7.6	10.0	--	8.6
26...	1028	1028	70	145	7.6	9.0	--	8.2
26...	1028	1028	80	140	7.6	8.0	--	8.2
26...	1028	1028	90	140	7.6	7.5	--	8.3

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING 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								
26...	1028	1028	100	140	7.6	7.0	--	8.5
26...	1028	1028	110	140	7.6	6.5	--	8.7
26...	1028	1028	120	140	7.6	6.5	--	8.4
26...	1028	1028	130	140	7.6	6.5	--	8.2
26...	1028	1028	140	140	7.6	6.5	--	8.2
26...	1028	1028	150	140	7.5	6.0	--	8.1
26...	1028	1028	160	140	7.5	6.0	--	8.0
26...	1028	1028	170	140	7.5	6.0	--	7.2
26...	1028	1028	173	140	7.4	6.0	--	6.9
AUG								
02...	--	--	--	125	7.8	--	--	12.2
22...	1028	--	--	--	--	--	228	--
22...	1028	1028	.0	160	8.2	29.0	--	8.2
22...	1028	1028	10	160	8.2	28.0	--	8.2
22...	1028	1028	20	160	8.3	27.5	--	8.2
22...	1028	1028	25	160	8.2	27.5	--	8.1
22...	1028	1028	30	155	7.7	23.5	--	8.5
22...	1028	1028	35	150	7.6	18.5	--	8.9
22...	1028	1028	40	150	7.5	14.5	--	9.1
22...	1028	1028	45	150	7.5	13.0	--	9.1
22...	1028	1028	50	150	7.5	11.5	--	8.6
22...	1028	1028	60	150	7.4	9.5	--	7.6
22...	1028	1028	70	145	7.4	9.5	--	7.6
22...	1028	1028	80	145	7.4	8.5	--	7.5
22...	1028	1028	90	145	7.4	8.0	--	7.6
22...	1028	1028	100	140	7.4	7.5	--	7.7
22...	1028	1028	110	140	7.5	7.0	--	7.9
22...	1028	1028	120	140	7.5	7.0	--	7.7
22...	1028	1028	130	140	7.5	6.5	--	7.5
22...	1028	1028	140	140	7.5	6.5	--	7.3
22...	1028	1028	150	140	7.5	6.5	--	7.4
22...	1028	1028	160	140	7.5	6.5	--	7.4
22...	1028	1028	170	140	7.5	6.5	--	7.5
22...	1028	1028	180	145	7.4	6.5	--	5.4
22...	1028	1028	182	150	7.4	6.5	--	1.2
22...	1028	1028	185	170	7.5	6.5	--	1.2
SEP								
12...	1028	--	--	--	--	--	252	--
12...	1028	1028	.0	145	8.2	26.0	--	8.2
12...	1028	1028	10	145	8.3	26.0	--	8.2

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
SEP												
12...	1028	1028	20	145	8.4	26.0	--	--	8.2	--	--	--
12...	1028	1028	30	145	8.4	25.5	--	--	8.1	--	--	--
12...	1028	1028	35	145	7.8	23.0	--	--	8.1	--	--	--
12...	1028	1028	37	145	7.7	20.5	--	--	8.4	--	--	--
12...	1028	1028	40	140	7.7	15.0	--	--	8.8	--	--	--
12...	1028	1028	45	140	7.6	12.5	--	--	8.5	--	--	--
12...	1028	1028	50	140	7.6	11.5	--	--	8.1	--	--	--
12...	1028	1028	60	140	7.5	10.5	--	--	6.9	--	--	--
12...	1028	1028	70	135	7.5	9.5	--	--	6.9	--	--	--
12...	1028	1028	80	135	7.6	8.5	--	--	7.2	--	--	--
12...	1028	1028	90	135	7.6	8.0	--	--	7.2	--	--	--
12...	1028	1028	100	135	7.6	7.5	--	--	7.1	--	--	--
12...	1028	1028	110	130	7.6	7.0	--	--	7.5	--	--	--
12...	1028	1028	120	130	7.6	7.0	--	--	7.4	--	--	--
12...	1028	1028	130	130	7.5	6.5	--	--	6.8	--	--	--
12...	1028	1028	140	130	7.5	6.5	--	--	6.7	--	--	--
12...	1028	1028	150	130	7.5	6.5	--	--	6.9	--	--	--
12...	1028	1028	160	130	7.5	6.5	--	--	7.0	--	--	--
12...	1028	1028	170	130	7.5	6.5	--	--	5.5	--	--	--
12...	1028	1028	175	135	7.3	6.5	--	--	2.8	--	--	--
12...	1028	1028	178	140	7.3	6.5	--	--	.9	--	--	--
21...	810	--	--	--	--	--	--	264	--	--	--	--
21...	810	1028	.0	--	--	--	--	--	--	--	0	--
21...	810	1028	50	--	--	--	--	--	--	1.9	--	--
21...	810	810	50	125	6.5	14.5	0	--	7.0	--	--	76
21...	810	1028	100	--	--	--	--	--	--	1.1	--	--
21...	810	810	100	140	6.6	10.5	0	--	6.7	--	--	64

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	1.0	--	6.5	2.9	.19	.02	.09	.11	.30	1.3	.01
21...	54	--	62	--	--	--	--	--	--	--	--	--
21...	--	1.1	--	6.7	2.7	.26	.01	.07	.08	.34	1.5	.00
21...	56	--	60	--	--	--	--	--	--	--	--	--

DATE	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)
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.01	60	0	20	100	20	<100	80	.1	<50	130
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.00	70	0	20	90	0	<100	40	.0	<50	120
21...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010001, 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 regulated by Beaver Lake.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--12 years, 1,330 ft^3/s (37.7 m^3/s), 963,600 acre-ft/yr (1,190 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, 6,070 ft^3/s (172 m^3/s) Jan 10; minimum daily, 44 ft^3/s (1.25 m^3/s) at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2200	2570	3300	58	159	55	60	53	47	166	45	667
2	48	1570	3360	57	67	57	55	55	47	45	174	51
3	48	1980	1610	5040	58	57	56	55	47	45	47	51
4	2720	1720	55	2920	62	61	632	184	47	45	47	51
5	2930	5080	56	1780	63	56	781	55	47	1750	47	50
6	338	607	2130	4370	62	58	65	54	45	48	46	188
7	48	50	1700	4350	62	56	202	53	176	48	46	51
8	49	3820	1700	58	62	55	59	53	47	47	47	51
9	48	840	1540	1320	63	57	55	57	47	47	186	50
10	48	1500	1770	6070	65	56	55	55	47	47	47	49
11	1630	2190	57	4420	57	57	69	54	46	45	47	49
12	1990	2350	57	5540	56	56	410	55	46	275	47	51
13	2950	55	1250	4520	56	56	516	55	47	555	47	177
14	2230	56	2260	823	61	55	60	53	186	109	47	49
15	338	2660	1150	59	59	55	259	53	47	44	44	49
16	49	1140	1520	228	59	56	59	56	47	45	177	49
17	328	1150	632	4260	61	57	59	59	47	46	47	49
18	5060	1400	54	2400	61	57	59	208	47	47	47	48
19	4410	2910	55	1670	60	57	58	58	46	300	51	46
20	3570	53	2770	63	60	57	58	58	44	47	47	167
21	4530	53	2260	64	59	53	199	55	156	48	47	48
22	2710	4020	1470	64	53	55	59	54	47	47	64	48
23	408	4750	1270	64	59	58	59	200	47	47	292	48
24	48	2950	693	58	60	53	59	55	47	46	51	47
25	2750	53	55	65	57	45	409	51	47	47	52	47
26	2140	49	56	62	57	51	51	176	47	186	467	48
27	2000	53	702	63	58	51	175	48	174	47	50	47
28	1850	53	803	833	59	47	53	49	47	47	50	48
29	3720	4050	56	65	---	57	55	47	46	50	48	49
30	49	4360	674	63	---	62	53	47	48	47	179	46
31	49	---	743	63	---	63	---	174	---	47	51	---
TOTAL	51286	54092	35808	51470	1774	1726	4799	2339	1906	4460	2684	2469
MEAN	1654	1803	1155	1660	63.4	55.7	160	75.5	63.5	144	86.6	82.3
MAX	5060	5080	3360	6070	159	63	781	208	186	1750	467	667
MIN	48	49	54	57	53	45	51	47	44	44	44	46
AC-FT	101700	107300	71030	102100	3520	3420	9520	4640	3780	8850	5320	4900

CAL YR 1976 TOTAL 451238 MEAN 1233 MAX 5080 MIN 43 AC-FT 895000
WTR YR 1977 TOTAL 214813 MEAN 589 MAX 6070 MIN 44 AC-FT 426100

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)
OCT											
18...	1028	1028	130	7.3	12.0	--	2.1	--	--	--	--
19...	810	1028	--	--	--	--	--	.8	5	--	--
19...	810	810	140	6.9	11.5	5	2.3	--	--	74	50
NOV											
16...	1028	1028	130	7.1	10.5	--	6.5	--	--	--	--
DEC											
14...	1028	1028	120	7.5	7.5	--	9.4	--	--	--	--
JAN											
26...	1028	1028	130	8.1	4.5	--	15.6	--	--	--	--
FEB											
07...	1028	1028	125	8.1	4.0	--	14.0	--	--	--	--
MAR											
08...	1028	1028	130	8.2	6.5	--	14.8	--	--	--	--
APR											
05...	1028	1028	135	7.8	7.5	--	15.8	--	--	--	--
20...	810	1028	--	--	--	--	--	.6	0	--	--
20...	810	810	150	8.0	9.5	5	12.1	--	--	62	56
MAY											
01...	1028	1028	125	8.3	11.0	--	13.6	--	--	--	--
31...	1028	1028	130	7.7	9.0	--	12.6	--	--	--	--
JUN											
27...	1028	1028	150	7.6	10.5	--	10.4	--	--	--	--
JUL											
26...	1028	1028	155	7.5	9.5	--	10.4	--	--	--	--
AUG											
22...	1028	1028	140	7.4	9.0	--	10.0	--	--	--	--
SEP											
12...	1028	1028	135	7.6	10.0	--	9.7	--	--	--	--
21...	810	1028	--	--	--	--	--	.7	2	--	--
21...	810	810	145	6.5	10.5	0	9.8	--	--	78	60

DATE	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											
18...	--	--	--	--	--	--	--	--	--	--	--
19...	1.3	--	510	3.0	.33	.02	.16	.18	.51	2.3	.01
19...	--	56	--	--	--	--	--	--	--	--	--
NOV											
16...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
20...	1.3	--	7.9	3.2	.23	.00	.00	.00	.23	1.0	.00
20...	--	60	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
21...	1.1	--	6.8	7.8	.29	.01	.00	.01	.30	1.3	.01
21...	--	64	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
18...	--	--	--	--	--	--	--	--	--	--	--
19...	.01	80	1	0	140	110	<100	530	.2	<50	130
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
16...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
20...	.00	60	0	<10	10	50	<100	20	.0	<50	40
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
21...	.01	50	0	10	140	30	<100	20	.0	<50	110
21...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010001, 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 mi² (3,222 km²).

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 1976 TO SEPTEMBER 1977

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)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)
OCT												
19...	9827	9827	4400	135	7.5	11.5	--	3.7	.8	<10	30	--
NOV												
23...	9827	9827	4730	139	7.5	11.0	0	6.7	2.0	--	--	--
DEC												
07...	9827	9827	--	--	--	--	--	--	--	50	--	--
27...	9827	9827	670	152	7.9	8.0	0	10.1	1.4	--	--	72
JAN												
26...	9827	9827	20	281	7.8	6.0	5	12.1	2.4	<5	--	--
FEB												
15...	9827	9827	20	207	8.0	7.0	0	12.2	2.0	7	<5	--
MAR												
16...	9827	9827	20	229	8.0	14.0	5	10.6	2.1	--	--	130
APR												
19...	9827	9827	20	179	8.0	21.0	5	10.1	1.9	--	--	--
MAY												
17...	9827	9827	20	148	7.9	21.0	0	10.1	2.6	20	--	--
JUN												
14...	9827	9827	160	151	7.7	28.5	5	9.9	--	--	--	--
JUL												
19...	9827	9827	270	145	7.8	24.5	0	10.4	2.9	420	--	--
AUG												
16...	9827	9827	150	151	7.9	24.0	0	10.7	2.0	1100	--	--
SEP												
20...	9827	9827	140	--	7.7	18.0	0	10.8	1.9	1300	--	80

DATE	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	TOTAL CAL-CIUM (CA) (MG/L) (00916)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	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)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	--	--	--	--	--	--	--	--	--	--	4.0
NOV											
23...	--	--	--	--	--	--	--	--	--	--	6.0
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	13	--	23	--	3.0	2.6	1.8	72	0	59	5.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	5.0
FEB											
15...	--	--	--	--	--	--	--	--	--	--	7.0
MAR											
16...	23	--	39	--	8.2	2.1	1.3	130	0	107	9.0
APR											
19...	--	--	--	--	--	--	--	--	--	--	6.0
MAY											
17...	--	--	--	--	--	--	--	--	--	--	7.0
JUN											
14...	--	--	--	3.0	--	2.3	.9	--	--	--	4.0
JUL											
19...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
16...	--	--	--	--	--	--	--	--	--	--	2.0
SEP											
20...	--	27	--	3.0	--	2.0	1.3	--	--	--	7.0

07050000 WHITE RIVER AT BEAVER, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
19...	5.5	79	15	.64	--	--	<.01	--	--	--	--	--
NOV												
23...	4.0	83	18	.12	--	--	.01	--	--	--	--	--
DEC												
27...	3.5	90	6	.18	--	--	.02	<3	<10	<3	<10	<20
JAN												
26...	9.0	75	9	.23	--	--	.09	--	--	--	--	--
FEB												
15...	5.0	121	22	.17	--	--	.01	--	--	--	--	--
MAR												
16...	5.0	131	30	.24	--	--	<.01	--	<10	--	<10	1300
APR												
19...	4.0	102	22	.17	--	.12	.03	--	--	--	--	--
MAY												
17...	4.0	81	2	--	--	.03	.03	--	--	--	--	--
JUN												
14...	4.0	88	<1	.17	<.05	--	.01	--	<10	<3	<10	80
JUL												
19...	4.5	93	1	.15	.00	.04	--	--	--	--	--	--
AUG												
16...	5.0	91	1	<.05	<.05	<.05	--	--	--	--	--	--
SEP												
20...	4.5	94	<1	.19	<.05	<.05	.02	--	<10	<5	<10	30

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
27...	<10	150	1.4	<10	--	--	--	--	--	--	--	--
JAN												
26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
16...	<10	290	--	<10	--	--	--	--	--	--	--	--
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	<10	15	--	--	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	<10	23	--	<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, Hydrologic Unit 11010001, 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 mi² (1,365 km²).

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
19...	9827	9827	154	290	8.2	12.0	5	9.2	1.5	80	55	--
NOV												
23...	9827	9827	595	277	8.4	6.5	0	12.6	2.4	--	--	--
DEC												
07...	9827	9827	--	--	--	--	--	--	--	3200	--	--
27...	9827	9827	170	261	8.5	5.0	5	13.8	2.3	--	--	140
JAN												
26...	9827	9827	--	--	--	--	--	--	--	400	--	--
FEB												
15...	9827	9827	--	--	--	--	--	--	--	83	5	--
MAR												
16...	9827	9827	299	175	8.0	12.5	10	10.4	2.3	--	--	98
APR												
19...	9827	9827	1190	219	8.5	21.0	0	11.2	2.7	--	--	--
MAY												
17...	9827	9827	302	233	8.2	23.0	5	9.1	2.1	440	--	--
JUN												
14...	9827	9827	300	258	8.2	29.0	5	9.5	--	--	--	--
JUL												
19...	9827	9827	298	303	8.3	30.0	5	8.5	2.6	400	--	--
AUG												
16...	9827	9827	374	298	8.3	29.0	5	9.4	5.2	1700	--	--
SEP												
20...	9827	9827	455	--	8.2	22.0	0	10.1	2.6	2700	--	160

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	--	--	--	--	--	--	--	--	--	--	3.0
NOV											
23...	--	--	--	--	--	--	--	--	--	--	5.0
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	17	--	38	--	11	3.2	1.8	150	0	123	6.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
16...	21	--	32	--	4.5	2.2	1.0	94	0	77	11
APR											
19...	--	--	--	--	--	--	--	--	--	--	6.0
MAY											
17...	--	--	--	--	--	--	--	--	--	--	5.0
JUN											
14...	--	--	--	11	--	3.9	1.5	--	--	--	1.0
JUL											
19...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
16...	--	--	--	--	--	--	--	--	--	--	2.0
SEP											
20...	--	47	--	9.0	--	3.0	1.8	--	--	--	10

07050500 KINGS RIVER NEAR BERRYVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
19...	7.0	163	8	.10	--	--	.21	--	--	--	--	--
NOV												
23...	6.0	154	43	.14	--	--	.31	--	--	--	--	--
DEC												
27...	5.5	--	--	--	--	--	.28	<3	10	<3	<10	<20
MAR												
16...	4.5	108	13	.36	--	--	.06	--	20	--	<10	720
APR												
19...	4.5	115	6	.11	--	<.10	.09	--	--	--	--	--
MAY												
17...	5.0	130	10	--	--	.01	.08	--	--	--	--	--
JUN												
14...	6.0	163	6	.30	<.05	--	.16	--	<10	<3	<10	310
JUL												
19...	6.5	178	6	--	.01	.05	--	--	--	--	--	--
AUG												
16...	6.0	179	12	.22	<.05	<.05	--	--	--	--	--	--
SEP												
20...	5.0	165	4	.20	<.05	.05	.09	--	<10	<5	<10	200

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
27...	<10	<27	.9	<10	--	--	--	--	--	--	--	--
MAR												
16...	<10	41	--	<10	--	--	--	--	--	--	--	--
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	<10	41	--	--	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	10	55	--	<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, Hydrologic Unit 11010003, 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, 2,939,000 acre-ft (3.62 km³) Oct. 1, elevation, 651.57 ft (198.599 m); minimum, 2,486,000 acre-ft (3.07 km³) Mar. 26, Aug. 30, elevation, 640.67 ft (195.276 m).

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

640	2,460	648	2,784
644	2,618	652	2,958

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2923000	2653000	2614000	2716000	2591000	2503000	2696000	2743000	2519000	2521000	2522000	2496000
2	2907000	2647000	2612000	2715000	2597000	2499000	2704000	2739000	2516000	2524000	2516000	2497000
3	2894000	2644000	2611000	2716000	2595000	2503000	2706000	2731000	2512000	2526000	2516000	2501000
4	2883000	2639000	2610000	2720000	2596000	2503000	2713000	2726000	2513000	2525000	2513000	2498000
5	2876000	2641000	2609000	2717000	2594000	2503000	2721000	2713000	2512000	2525000	2507000	2498000
6	2873000	2643000	2618000	2716000	2594000	2502000	2722000	2714000	2515000	2532000	2504000	2500000
7	2871000	2641000	2622000	2716000	2586000	2500000	2722000	2715000	2516000	2536000	2503000	2501000
8	2909000	2632000	2627000	2701000	2578000	2496000	2724000	2720000	2509000	2534000	2499000	2506000
9	2860000	2633000	2634000	2696000	2576000	2495000	2725000	2713000	2504000	2533000	2496000	2506000
10	2858000	2631000	2643000	2685000	2575000	2492000	2726000	2710000	2503000	2534000	2498000	2503000
11	2858000	2622000	2651000	2677000	2574000	2497000	2726000	2706000	2509000	2529000	2498000	2503000
12	2849000	2617000	2659000	2675000	2576000	2503000	2728000	2698000	2509000	2528000	2497000	2500000
13	2840000	2617000	2667000	2682000	2577000	2506000	2729000	2683000	2509000	2530000	2497000	2502000
14	2831000	2619000	2674000	2686000	2566000	2505000	2729000	2668000	2511000	2533000	2495000	2524000
15	2823000	2614000	2677000	2672000	2558000	2505000	2726000	2659000	2514000	2541000	2494000	2532000
16	2818000	2617000	2682000	2653000	2546000	2503000	2727000	2636000	2517000	2543000	2499000	2534000
17	2811000	2620000	2683000	2644000	2541000	2500000	2726000	2623000	2517000	2542000	2514000	2534000
18	2798000	2620000	2682000	2641000	2539000	2500000	2722000	2602000	2512000	2539000	2511000	2539000
19	2778000	2620000	2686000	2638000	2530000	2500000	2716000	2586000	2512000	2543000	2508000	2539000
20	2760000	2620000	2685000	2641000	2526000	2498000	2707000	2584000	2512000	2549000	2506000	2539000
21	2751000	2621000	2691000	2640000	2518000	2494000	2714000	2582000	2500000	2550000	2507000	2538000
22	2744000	2620000	2698000	2640000	2512000	2496000	2724000	2582000	2500000	2545000	2504000	2539000
23	2719000	2620000	2697000	2642000	2517000	2494000	2737000	2564000	2501000	2541000	2504000	2538000
24	2718000	2622000	2698000	2640000	2511000	2490000	2744000	2551000	2492000	2539000	2501000	2552000
25	2706000	2622000	2698000	2640000	2509000	2488000	2742000	2551000	2496000	2537000	2499000	2576000
26	2701000	2623000	2698000	2638000	2512000	2488000	2741000	2528000	2506000	2538000	2490000	2575000
27	2695000	2620000	2698000	2632000	2509000	2552000	2740000	2527000	2493000	2536000	2492000	2608000
28	2684000	2622000	2701000	2610000	2507000	2633000	2738000	2528000	2504000	2531000	2491000	2627000
29	2675000	2617000	2701000	2605000	---	2659000	2739000	2528000	2517000	2530000	2489000	2686000
30	2677000	2614000	2700000	2603000	---	2678000	2741000	2528000	2519000	2525000	2489000	2710000
31	2670000	---	2707000	2596000	---	2686000	---	2520000	---	2524000	2490000	---
MAX	2923000	2653000	2707000	2720000	2597000	2686000	2744000	2743000	2519000	2550000	2522000	2710000
MIN	2670000	2614000	2609000	2596000	2507000	2488000	2696000	2520000	2492000	2521000	2489000	2496000
(†)	645.27	643.89	646.17	643.43	641.19	645.67	646.97	641.53	641.50	641.62	640.76	646.23
(‡)	-268000	-56000	+93000	-111000	-89000	+179000	+55000	-221000	-1000	+5000	-34000	+220000

CAL YR 1976 MAX 3550000 MIN 2609000 ‡ -354000
WTR YR 1977 MAX 2923000 MIN 2488000 ‡ -228000

† 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
19...	1028	--	--	--	--	--	--	156	--	--	--	--
19...	1028	1028	.0	245	8.7	19.0	--	--	8.8	--	--	--
19...	1028	1028	10	245	8.7	19.0	--	--	8.7	--	--	--
19...	1028	1028	20	245	8.7	19.0	--	--	8.6	--	--	--
19...	1028	1028	30	245	8.7	19.0	--	--	8.5	--	--	--
19...	1028	1028	40	245	8.7	19.0	--	--	8.5	--	--	--
19...	1028	1028	50	245	8.6	19.0	--	--	8.0	--	--	--
19...	1028	1028	55	245	8.5	19.0	--	--	7.4	--	--	--
19...	1028	1028	60	250	7.8	18.0	--	--	1.5	--	--	--
19...	1028	1028	70	250	7.8	17.0	--	--	1.5	--	--	--
19...	1028	1028	80	245	7.8	16.5	--	--	1.9	--	--	--
19...	1028	1028	90	245	7.8	17.0	--	--	2.4	--	--	--
19...	1028	1028	100	240	7.8	15.5	--	--	2.9	--	--	--
19...	1028	1028	110	240	7.8	15.0	--	--	2.8	--	--	--
19...	1028	1028	120	240	7.8	14.5	--	--	1.8	--	--	--
19...	1028	1028	130	245	7.7	13.5	--	--	.3	--	--	--
19...	1028	1028	140	260	7.7	12.5	--	--	.1	--	--	--
19...	1028	1028	150	260	7.7	11.0	--	--	.1	--	--	--
19...	1028	1028	160	260	7.8	9.5	--	--	.0	--	--	--
19...	1028	1028	165	265	7.8	9.5	--	--	.0	--	--	--
NOV												
03...	810	--	--	--	--	--	--	216	--	--	--	--
03...	810	1028	.0	--	--	--	--	--	--	--	0	--
03...	810	1028	25	--	--	--	--	--	--	.6	--	--
03...	810	810	25	240	6.4	15.0	0	--	7.2	--	--	122
03...	810	1028	100	--	--	--	--	--	--	1.2	--	--
03...	810	810	100	230	6.8	14.5	0	--	1.8	--	--	126
17...	1028	--	--	--	--	--	--	144	--	--	--	--
17...	1028	1028	.0	240	7.8	13.5	--	--	8.2	--	--	--
17...	1028	1028	10	240	7.7	13.5	--	--	8.1	--	--	--
17...	1028	1028	20	240	7.7	13.5	--	--	8.0	--	--	--
17...	1028	1028	30	240	7.7	13.5	--	--	8.0	--	--	--
17...	1028	1028	40	240	7.7	13.5	--	--	8.0	--	--	--
17...	1028	1028	50	245	7.7	13.5	--	--	8.0	--	--	--
17...	1028	1028	60	245	7.7	13.5	--	--	8.0	--	--	--
17...	1028	1028	70	245	7.7	13.5	--	--	8.0	--	--	--
17...	1028	1028	80	245	7.7	13.5	--	--	8.0	--	--	--
17...	1028	1028	90	245	7.7	13.5	--	--	8.3	--	--	--
17...	1028	1028	100	245	7.7	13.5	--	--	8.6	--	--	--
17...	1028	1028	110	250	7.5	13.5	--	--	6.1	--	--	--

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...	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	1.6	--	7.5	3.4	.03	.07	.29	.36	.39	1.7	.04
03...	80	--	114	--	--	--	--	--	--	--	--	--
03...	--	1.6	--	10	3.6	.28	.05	.25	.30	.58	2.6	.01
03...	86	--	118	--	--	--	--	--	--	--	--	--

DATE	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											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	.01	60	0	0	200	0	<100	20	.0	<50	220
03...	--	--	--	--	--	--	--	--	--	--	--
03...	.00	120	4	0	220	20	800	60	.0	<50	240

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
NOV								
17...	1028	1028	120	250	7.5	13.5	--	6.0
17...	1028	1028	130	255	7.2	13.0	--	1.1
17...	1028	1028	140	265	7.2	12.0	--	.1
17...	1028	1028	145	265	7.2	11.0	--	.1
17...	1028	1028	150	270	7.3	10.5	--	.1
17...	1028	1028	160	275	7.3	9.5	--	.1
17...	1028	1028	165	310	7.3	9.5	--	.1
DEC								
15...	1028	--	--	--	--	--	150	--
15...	1028	1028	.0	240	8.0	10.5	--	9.0
15...	1028	1028	10	240	8.0	10.0	--	8.8
15...	1028	1028	20	240	8.0	10.0	--	8.6
15...	1028	1028	30	240	8.0	10.0	--	8.5
15...	1028	1028	40	240	7.9	10.0	--	8.4
15...	1028	1028	50	240	7.9	10.0	--	8.4
15...	1028	1028	60	245	7.9	10.0	--	8.4
15...	1028	1028	70	245	7.9	10.0	--	8.4
15...	1028	1028	80	245	7.9	10.0	--	8.5
15...	1028	1028	90	245	7.9	10.0	--	8.3
15...	1028	1028	100	245	7.9	10.0	--	7.9
15...	1028	1028	110	245	7.8	10.0	--	6.9
15...	1028	1028	120	245	7.8	10.0	--	7.3
15...	1028	1028	130	245	7.8	10.0	--	7.8
15...	1028	1028	140	245	7.8	10.0	--	7.8
15...	1028	1028	150	245	7.6	9.5	--	6.5
15...	1028	1028	160	265	7.5	9.5	--	.3
15...	1028	1028	165	280	7.5	9.5	--	.2
JAN								
27...	1028	--	--	--	--	--	132	--
27...	1028	1028	.0	240	8.3	5.5	--	14.0
27...	1028	1028	10	240	8.3	5.5	--	14.0
27...	1028	1028	20	240	8.3	5.0	--	14.0
27...	1028	1028	30	240	8.3	5.0	--	14.0
27...	1028	1028	40	240	8.3	5.0	--	14.0
27...	1028	1028	50	240	8.3	5.0	--	14.0
27...	1028	1028	60	240	8.3	5.0	--	14.0
27...	1028	1028	70	240	8.3	5.0	--	14.0
27...	1028	1028	80	240	8.3	5.0	--	14.0
27...	1028	1028	90	240	8.3	5.0	--	14.0
27...	1028	1028	100	240	8.3	5.0	--	14.0
27...	1028	1028	110	240	8.3	5.0	--	14.0
27...	1028	1028	120	240	8.3	5.0	--	14.0
27...	1028	1028	130	240	8.3	5.0	--	14.0
27...	1028	1028	140	240	8.3	5.0	--	14.0
27...	1028	1028	150	240	8.3	5.0	--	13.9
27...	1028	1028	160	240	8.3	5.0	--	13.9
27...	1028	1028	165	240	8.3	5.0	--	13.8
FEB								
08...	1028	--	--	--	--	--	144	--
08...	1028	1028	.0	250	8.2	5.0	--	13.2
08...	1028	1028	10	250	8.2	4.5	--	13.2
08...	1028	1028	20	250	8.2	4.5	--	13.2
08...	1028	1028	30	245	8.1	4.5	--	13.2
08...	1028	1028	40	245	8.1	4.5	--	13.2
08...	1028	1028	50	245	8.1	4.5	--	13.2
08...	1028	1028	60	245	8.1	4.5	--	13.2
08...	1028	1028	70	245	8.1	4.5	--	13.2
08...	1028	1028	80	245	8.1	4.5	--	13.2
08...	1028	1028	90	245	8.1	4.5	--	13.2
08...	1028	1028	100	245	8.1	4.5	--	13.2
08...	1028	1028	110	245	8.1	4.5	--	13.2
08...	1028	1028	120	245	8.1	4.5	--	13.2
08...	1028	1028	130	245	8.1	4.5	--	13.2
08...	1028	1028	140	245	8.1	4.5	--	13.2
08...	1028	1028	150	245	8.1	4.5	--	13.2
08...	1028	1028	160	245	8.1	4.5	--	13.1
08...	1028	1028	170	245	8.1	4.5	--	13.1
08...	1028	1028	175	245	8.1	4.5	--	13.0
MAR								
08...	1028	--	--	--	--	--	156	--
08...	1028	1028	.0	220	8.5	6.5	--	13.6
08...	1028	1028	10	220	8.5	6.5	--	13.6
08...	1028	1028	20	225	8.5	6.5	--	13.6
08...	1028	1028	30	230	8.4	6.5	--	13.5
08...	1028	1028	40	230	8.4	6.5	--	13.5
08...	1028	1028	50	230	8.4	6.0	--	13.4
08...	1028	1028	60	230	8.4	6.0	--	13.4
08...	1028	1028	70	230	8.4	6.0	--	13.3
08...	1028	1028	80	230	8.4	6.0	--	13.3
08...	1028	1028	90	230	8.4	6.0	--	13.2

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
MAR												
08...	1028	1028	100	230	8.4	6.0	--	--	13.1	--	--	--
08...	1028	1028	110	235	8.4	6.0	--	--	13.1	--	--	--
08...	1028	1028	120	235	8.3	5.5	--	--	13.0	--	--	--
08...	1028	1028	130	235	8.3	5.5	--	--	13.0	--	--	--
08...	1028	1028	140	235	8.3	5.5	--	--	12.9	--	--	--
08...	1028	1028	150	235	8.3	5.5	--	--	12.6	--	--	--
08...	1028	1028	160	240	8.3	5.5	--	--	12.3	--	--	--
APR												
06...	1028	--	--	--	--	--	--	192	--	--	--	--
06...	1028	1028	.0	235	8.1	11.0	--	--	12.0	--	--	--
06...	1028	1028	10	235	8.1	10.5	--	--	12.0	--	--	--
06...	1028	1028	20	235	8.1	10.5	--	--	12.0	--	--	--
06...	1028	1028	30	235	8.1	10.5	--	--	12.1	--	--	--
06...	1028	1028	40	235	8.1	10.0	--	--	12.1	--	--	--
06...	1028	1028	50	235	8.1	10.0	--	--	12.1	--	--	--
06...	1028	1028	60	235	8.1	10.0	--	--	12.1	--	--	--
06...	1028	1028	70	235	8.1	10.0	--	--	12.2	--	--	--
06...	1028	1028	80	235	8.1	10.0	--	--	12.2	--	--	--
06...	1028	1028	90	235	8.1	9.5	--	--	12.2	--	--	--
06...	1028	1028	100	235	8.1	9.5	--	--	12.2	--	--	--
06...	1028	1028	110	235	8.1	9.5	--	--	12.3	--	--	--
06...	1028	1028	120	235	8.1	9.0	--	--	12.3	--	--	--
06...	1028	1028	130	235	8.1	8.5	--	--	12.4	--	--	--
06...	1028	1028	135	235	8.1	7.5	--	--	12.4	--	--	--
06...	1028	1028	140	235	8.0	7.0	--	--	12.4	--	--	--
06...	1028	1028	145	235	8.0	6.5	--	--	12.3	--	--	--
06...	1028	1028	150	235	8.0	6.0	--	--	12.2	--	--	--
06...	1028	1028	160	235	8.0	6.0	--	--	12.1	--	--	--
06...	1028	1028	165	240	7.9	6.0	--	--	12.1	--	--	--
MAY												
02...	810	--	--	--	--	--	--	312	--	--	--	--
02...	810	1028	.0	--	--	--	--	--	--	--	0	--
02...	810	1028	25	--	--	--	--	--	--	1.0	--	--
02...	810	810	25	265	7.8	15.0	0	--	9.6	--	--	120
02...	810	1028	100	--	--	--	--	--	--	.6	--	--
02...	810	810	100	440	6.9	9.0	0	--	.0	--	--	128
02...	1028	--	--	--	--	--	--	300	--	--	--	--
02...	1028	1028	.0	235	8.3	19.0	--	--	11.2	--	--	--
02...	1028	1028	10	235	8.3	18.5	--	--	11.2	--	--	--
02...	1028	1028	15	235	8.2	17.0	--	--	11.1	--	--	--

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)
MAY												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	1.3	--	5.1	3.6	.12	.02	.23	.25	.37	1.6	.04
02...	62	--	112	--	--	--	--	--	--	--	--	--
02...	--	1.4	--	4.7	3.6	.19	.02	.11	.13	.32	1.4	.02
02...	70	--	116	--	--	--	--	--	--	--	--	--

DATE	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)
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	.04	40	0	0	<10	30	<100	0	.0	<50	40
02...	--	--	--	--	--	--	--	--	--	--	--
02...	.02	50	0	0	10	30	<100	10	.0	<50	50
02...	--	--	--	--	--	--	--	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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								
02...	1028	1028	20	235	8.2	16.5	--	11.1
02...	1028	1028	25	235	8.2	15.5	--	11.0
02...	1028	1028	30	235	8.2	15.0	--	11.2
02...	1028	1028	35	235	8.2	13.5	--	11.4
02...	1028	1028	40	235	8.2	12.5	--	11.7
02...	1028	1028	50	235	8.2	10.5	--	11.7
02...	1028	1028	60	235	8.2	10.0	--	11.7
02...	1028	1028	70	235	8.2	9.5	--	11.6
02...	1028	1028	80	235	8.2	9.0	--	11.6
02...	1028	1028	90	235	8.2	8.5	--	11.5
02...	1028	1028	100	235	8.1	8.0	--	11.4
02...	1028	1028	110	235	8.1	7.5	--	11.4
02...	1028	1028	120	235	8.1	7.0	--	11.4
02...	1028	1028	130	235	8.1	6.5	--	11.3
02...	1028	1028	140	235	8.1	6.5	--	11.2
02...	1028	1028	150	235	8.1	6.5	--	11.2
02...	1028	1028	160	235	8.1	6.0	--	10.9
02...	1028	1028	165	240	8.0	6.0	--	10.2
JUN								
01...	1028	--	--	--	--	--	276	--
01...	1028	1028	.0	235	8.4	26.0	--	10.0
01...	1028	1028	10	235	8.5	25.5	--	10.0
01...	1028	1028	20	235	8.5	25.0	--	10.4
01...	1028	1028	30	240	8.7	24.0	--	12.1
01...	1028	1028	35	240	8.7	18.0	--	13.8
01...	1028	1028	40	245	8.4	16.0	--	11.6
01...	1028	1028	45	245	8.2	13.5	--	11.0
01...	1028	1028	50	245	8.1	12.0	--	10.2
01...	1028	1028	60	245	8.1	10.5	--	10.1
01...	1028	1028	70	245	8.1	10.0	--	10.1
01...	1028	1028	80	245	8.1	9.5	--	10.1
01...	1028	1028	90	245	8.1	9.0	--	10.0
01...	1028	1028	100	245	8.1	8.0	--	9.9
01...	1028	1028	110	245	8.1	7.5	--	9.8
01...	1028	1028	120	245	8.1	7.5	--	9.6
01...	1028	1028	130	250	8.0	7.0	--	9.4
01...	1028	1028	140	250	8.0	7.0	--	9.0
01...	1028	1028	150	250	8.0	6.5	--	8.7
01...	1028	1028	160	250	7.9	6.5	--	7.9
01...	1028	1028	165	320	7.9	6.5	--	7.2
28...	1028	--	--	--	--	--	192	--
28...	1028	1028	.0	245	8.4	27.5	--	9.0
28...	1028	1028	10	245	8.4	27.0	--	8.8
28...	1028	1028	20	245	8.5	26.5	--	8.8
28...	1028	1028	25	245	8.5	24.5	--	11.1
28...	1028	1028	30	250	8.5	21.5	--	15.0
28...	1028	1028	35	250	8.5	18.0	--	13.6
28...	1028	1028	40	250	8.3	16.0	--	11.5
28...	1028	1028	45	255	8.0	14.0	--	10.6
28...	1028	1028	50	255	7.9	12.5	--	10.0
28...	1028	1028	55	255	7.9	11.5	--	9.9
28...	1028	1028	60	255	7.8	10.5	--	9.8
28...	1028	1028	70	255	7.8	9.5	--	9.8
28...	1028	1028	80	255	7.8	9.0	--	9.7
28...	1028	1028	90	255	7.8	8.5	--	9.7
28...	1028	1028	100	255	7.8	8.0	--	9.7
28...	1028	1028	110	255	7.8	7.5	--	9.6
28...	1028	1028	120	255	7.8	7.0	--	9.5
28...	1028	1028	130	255	7.8	7.0	--	9.3
28...	1028	1028	140	255	7.8	6.5	--	9.0
28...	1028	1028	150	260	7.8	6.5	--	8.2
28...	1028	1028	160	260	7.8	6.0	--	7.6
28...	1028	1028	165	260	7.7	6.0	--	6.6
JUL								
27...	1028	--	--	--	--	--	240	--
27...	1028	1028	.0	245	8.5	28.0	--	8.2
27...	1028	1028	10	245	8.5	28.0	--	8.2
27...	1028	1028	20	245	8.5	28.0	--	8.2
27...	1028	1028	25	245	8.5	25.0	--	11.3
27...	1028	1028	30	245	8.6	22.0	--	12.7
27...	1028	1028	35	250	8.6	20.0	--	13.1
27...	1028	1028	40	250	8.5	17.5	--	11.7
27...	1028	1028	45	255	8.3	15.5	--	10.4
27...	1028	1028	50	255	8.1	14.0	--	9.3
27...	1028	1028	55	255	8.0	12.5	--	8.6
27...	1028	1028	60	255	7.9	11.5	--	8.5
27...	1028	1028	70	255	7.9	10.0	--	8.4
27...	1028	1028	80	255	7.9	9.5	--	8.4
27...	1028	1028	90	255	7.9	9.0	--	8.6
27...	1028	1028	100	255	7.9	8.5	--	8.7

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
JUL												
27...	1028	1028	110	250	7.9	8.0	--	--	8.6	--	--	--
27...	1028	1028	120	250	7.9	7.5	--	--	8.3	--	--	--
27...	1028	1028	130	250	7.9	7.0	--	--	8.1	--	--	--
27...	1028	1028	140	255	7.8	6.5	--	--	7.5	--	--	--
27...	1028	1028	150	255	7.8	6.5	--	--	7.1	--	--	--
27...	1028	1028	160	260	7.7	6.5	--	--	5.4	--	--	--
27...	1028	1028	165	260	7.7	6.5	--	--	4.4	--	--	--
AUG												
23...	1028	--	--	--	--	--	--	216	--	--	--	--
23...	1028	1028	.0	250	8.3	29.5	--	--	8.2	--	--	--
23...	1028	1028	10	250	8.3	28.5	--	--	8.4	--	--	--
23...	1028	1028	20	250	8.4	28.0	--	--	8.4	--	--	--
23...	1028	1028	22	250	8.4	27.5	--	--	8.4	--	--	--
23...	1028	1028	25	250	8.4	27.0	--	--	8.4	--	--	--
23...	1028	1028	30	260	8.2	25.0	--	--	10.8	--	--	--
23...	1028	1028	35	255	8.3	22.0	--	--	12.0	--	--	--
23...	1028	1028	40	260	8.2	20.5	--	--	11.7	--	--	--
23...	1028	1028	45	260	7.9	18.5	--	--	10.2	--	--	--
23...	1028	1028	50	260	7.7	16.0	--	--	8.7	--	--	--
23...	1028	1028	55	260	7.6	14.0	--	--	7.6	--	--	--
23...	1028	1028	60	260	7.6	12.5	--	--	7.0	--	--	--
23...	1028	1028	70	260	7.6	11.0	--	--	7.2	--	--	--
23...	1028	1028	80	255	7.6	10.0	--	--	7.5	--	--	--
23...	1028	1028	90	255	7.6	9.5	--	--	7.7	--	--	--
23...	1028	1028	100	255	7.7	9.0	--	--	8.0	--	--	--
23...	1028	1028	110	255	7.7	8.5	--	--	7.9	--	--	--
23...	1028	1028	120	255	7.7	8.0	--	--	7.4	--	--	--
23...	1028	1028	130	255	7.7	7.5	--	--	7.1	--	--	--
23...	1028	1028	140	260	7.7	7.0	--	--	6.4	--	--	--
23...	1028	1028	150	260	7.7	7.0	--	--	5.2	--	--	--
23...	1028	1028	159	260	7.6	7.0	--	--	4.4	--	--	--
30...	810	--	--	--	--	--	--	300	--	--	--	--
30...	810	1028	.0	--	--	--	--	--	--	--	1	--
30...	810	1028	25	--	--	--	--	--	--	.8	--	--
30...	810	810	25	200	7.7	26.5	0	--	8.6	--	--	128
30...	810	1028	100	--	--	--	--	--	--	.9	--	--
30...	810	810	100	255	7.4	13.0	0	--	7.0	--	--	132
SEP												
13...	1028	--	--	--	--	--	--	192	--	--	--	--
13...	1028	1028	.0	235	8.6	26.0	--	--	8.8	--	--	--

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)
AUG												
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	1.2	--	5.2	3.6	.03	.00	.02	.02	.05	.22	.03
30...	78	--	117	--	--	--	--	--	--	--	--	--
30...	--	1.3	--	6.0	4.0	.20	.00	.00	.00	.20	.89	.03
30...	78	--	117	--	--	--	--	--	--	--	--	--

07054500 BULL SHOALS LAKE NEAR FLIPPIN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.03	50	1	0	50	0	<100	10	.0	<50	50
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.03	70	0	20	70	10	<100	10	.0	<50	110
30...	--	--	--	--	--	--	--	--	--	--	--

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
SEP							
13...	1028	1028	10	235	8.6	26.0	8.8
13...	1028	1028	20	235	8.4	25.5	8.7
13...	1028	1028	25	240	8.2	25.5	8.2
13...	1028	1028	30	240	8.1	23.5	9.3
13...	1028	1028	35	245	8.0	22.5	7.9
13...	1028	1028	40	245	7.9	21.0	8.8
13...	1028	1028	45	240	7.8	19.5	8.3
13...	1028	1028	50	240	7.8	18.5	7.4
13...	1028	1028	55	240	7.8	16.0	6.1
13...	1028	1028	60	240	7.8	14.5	5.9
13...	1028	1028	65	240	7.8	12.5	6.1
13...	1028	1028	70	240	7.8	12.0	6.1
13...	1028	1028	80	240	7.8	10.5	6.7
13...	1028	1028	90	240	7.9	9.5	7.1
13...	1028	1028	100	240	7.9	9.0	7.3
13...	1028	1028	110	235	7.9	8.5	7.3
13...	1028	1028	120	235	7.9	8.0	6.8
13...	1028	1028	130	235	7.8	7.5	6.5
13...	1028	1028	140	240	7.8	7.5	5.1
13...	1028	1028	150	240	7.8	7.0	4.8
13...	1028	1028	160	245	7.7	7.0	3.0
13...	1028	1028	162	245	7.7	7.0	1.3

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, Hydrologic Unit 11010003, 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 mi^2 (15,670 km^2).

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	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)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)
OCT												
13...	9827	9827	225	7.9	15.0	5	3.1	30	1.2	570	20	--
19...	1028	1028	240	7.8	15.0	--	3.0	--	--	--	--	--
27...	1028	810	--	--	--	--	--	--	.7	--	--	2
27...	810	810	190	7.4	14.0	2	5.6	--	--	--	--	--
NOV												
17...	9827	9827	254	7.9	14.0	0	7.2	69	1.3	40	<4	--
17...	1028	1028	245	7.7	13.5	--	9.4	--	--	--	--	--
DEC												
15...	1028	1028	240	8.2	10.0	--	11.6	--	--	--	--	--
21...	9827	9827	252	7.9	7.0	0	8.4	69	1.5	<10	4	--
JAN												
17...	9827	9827	246	8.1	.0	0	10.6	73	.8	--	--	--
17...	9827	9827	--	--	--	--	--	--	--	13	4	--
27...	1028	1028	240	8.3	5.0	--	15.3	--	--	--	--	--
FEB												
08...	1028	1028	240	8.1	4.5	--	14.2	--	--	--	--	--
16...	9827	9827	242	8.1	5.0	0	12.3	96	2.2	240	<4	--
MAR												
08...	1028	1028	240	8.4	8.5	--	16.4	--	--	--	--	--
21...	9827	9827	263	8.2	8.0	0	11.8	99	1.6	--	--	--
APR												
06...	1028	1028	240	8.2	12.5	--	16.8	--	--	--	--	--
20...	9827	9827	241	8.1	14.0	0	10.8	104	1.3	--	--	--
MAY												
02...	1028	1028	235	8.1	8.5	--	11.2	--	--	--	--	--
04...	810	1028	--	--	--	--	--	--	.9	--	--	1
04...	810	810	215	7.7	8.0	5	10.3	--	--	--	--	--
18...	9827	9827	248	8.1	8.0	0	10.3	87	2.0	130	110	--
JUN												
01...	1028	1028	240	--	13.0	--	16.4	--	--	--	--	--
15...	9827	9827	248	7.9	11.0	5	11.2	101	3.2	--	19	--
28...	1028	1028	250	7.9	9.0	--	9.8	--	--	--	--	--
JUL												
18...	9827	9827	240	8.0	11.0	0	9.2	83	--	150	<4	--
27...	1028	1028	250	8.4	9.5	--	12.2	--	--	--	--	--
AUG												
09...	9827	9827	--	--	--	--	--	--	--	900	140	--
09...	9827	9827	250	7.9	12.0	5	8.8	81	3.8	--	--	--
23...	1028	1028	250	7.8	10.0	--	8.1	--	--	--	--	--
30...	810	1028	--	--	--	--	--	--	.8	--	--	0

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	STREP-TOCOCCI (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)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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												
13...	32	170	47	--	47	--	--	13	1.1	<3.0	150	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	1.4	--	--
27...	--	120	--	--	--	83	--	--	--	--	--	--
NOV												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	<4	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
08...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	150	27	--	42	--	--	10	--	--	150	0
APR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
02...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	1.3	--	--
04...	--	120	--	--	--	72	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	43	--	--	11	--	2.6	1.1	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
18...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	1.2	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKALINITY AS CACO3 (MG/L) (00410)	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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	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												
13...	123	4.0	7.0	144	--	.11	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	7.7	3.7	--	--	--	--	.28	.03	.36	.39	.67
27...	118	--	--	--	--	--	--	--	--	--	--	--
NOV												
17...	--	7.0	4.5	138	3	<.10	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	4.0	5.5	150	12	<.10	--	--	--	--	--	--
JAN												
17...	--	4.0	5.0	142	3	.19	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
08...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	4.0	4.5	145	4	.16	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	123	5.0	5.0	136	4	.12	<.10	--	<.10	--	--	--
APR												
06...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	6.0	5.0	135	2	.15	<.10	--	<.10	--	--	--
MAY												
02...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	5.3	4.1	--	--	--	--	.17	.01	.06	.07	.24
04...	116	--	--	--	--	--	--	--	--	--	--	--
18...	--	6.0	5.5	136	11	.15	<.01	--	.13	--	--	--
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	2.0	5.0	143	2	.20	<.05	--	<.05	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
18...	--	7.0	5.0	141	<1	.18	.01	--	.01	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	6.0	5.5	142	2	.21	<.05	--	.10	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	5.1	4.3	--	--	--	--	.19	.00	.00	.00	.19

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
13...	--	<.01	--	--	<3	10	<3	<10	70	10	130
19...	--	--	--	--	--	--	--	--	--	--	--
27...	3.0	.01	.00	50	0	--	0	210	10	<100	80
27...	--	--	--	--	--	--	--	--	--	--	--
NOV											
17...	--	<.01	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--
21...	--	<.01	--	--	--	--	--	--	--	--	--
JAN											
17...	--	.04	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
16...	--	<.01	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	--	.01	--	--	--	<10	<3	<10	<20	<10	<27
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
20...	--	<.01	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
04...	1.1	.02	.02	40	0	--	10	<10	40	<100	0
04...	--	--	--	--	--	--	--	--	--	--	--
18...	--	.01	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	<10	<3	20	30	<10	26
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	.01	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	.01	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
30...	.84	.03	.03	50	0	--	30	130	0	<100	20

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
13...	<.5	--	20	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
27...	.0	<50	220	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	<10	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
04...	.0	<50	30	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	<10	.00	.00	.00	.00	.00	.00	.00	0
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	--	--	--	--	--	.00	--	.00	.00	.00	0
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	<.01	--	.00	.00	<.01	0
23...	--	--	--	--	--	--	--	--	--	--	--
30...	.0	<50	100	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	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)
AUG											
30...	810	810	200	8.2	10.5	0	7.3	--	--	--	--
SEP											
13...	1028	1028	235	7.9	10.0	--	7.6	--	--	--	--
19...	9827	9827	245	8.0	13.0	0	8.9	84	1.8	250	12

DATE	HARD-NESS (CA,MG) (MG/L) (00900)	TOTAL CAL-CIUM (CA) (MG/L) (00916)	CALCIUM AS CACO3 (MG/L) (00910)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	TOTAL SODIUM (NA) (MG/L) (00929)	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 FILT-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)
AUG											
30...	139	--	83	--	--	--	117	--	--	--	--
SEP											
13...	--	--	--	--	--	--	--	--	--	--	--
19...	140	40	--	9.0	2.0	1.5	--	7.0	5.0	141	2

DATE	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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)	TOTAL ZINC (ZN) (UG/L) (01092)
AUG										
30...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	--	--	--	--	--	--	--	--	--	--
19...	.21	<.05	.01	<10	<5	<10	<30	<10	<8	<10

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, Hydrologic Unit 11010003, 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.--49 years, 6,033 ft^3/s (171 m^3/s), 4,371,000 acre-ft/yr (5,390 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, 28,300 ft^3/s (801 m^3/s) May 24, gage height, 13.32 ft (4.060 m); minimum daily 219 ft^3/s (6.20 m^3/s) Nov. 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8630	9000	5360	846	3240	3690	1580	543	757	2870	958	3000
2	10800	9140	3990	2240	2450	4400	1310	4370	1990	1590	2790	5620
3	10100	7940	2940	4170	986	846	1260	4510	2420	834	2090	1360
4	10200	8060	1340	2860	1160	2810	3250	4890	1940	1670	891	998
5	9080	5720	593	4550	1300	561	1330	7110	1170	2720	3300	1330
6	1350	5820	3330	4880	449	297	718	2290	1390	1970	1850	1920
7	1050	4050	5110	4910	5240	2710	506	1650	525	2580	816	1270
8	4600	9410	4090	10200	4790	4040	256	539	2500	2870	2910	1270
9	2980	4830	4580	9170	3130	1380	246	3720	2800	1250	1920	1790
10	1400	2020	2570	15100	1540	1210	247	2360	2490	895	1320	1480
11	1790	7470	1730	15200	724	1860	645	2470	1360	2750	1070	803
12	7680	6660	1170	9960	394	1040	336	4150	661	1840	1970	1740
13	8000	3720	1410	5270	325	656	321	5970	1420	1500	1400	2070
14	4330	992	426	2230	6310	1740	552	7650	1320	3320	978	1460
15	6180	4900	572	7110	9700	2120	2230	5500	1760	2420	1600	511
16	3240	3660	1140	11500	9350	1420	409	10800	651	1700	1660	657
17	2640	1350	400	12500	6720	4980	335	6820	1110	920	1120	670
18	8520	250	713	7290	3880	2570	1960	9640	2770	2580	2050	561
19	12600	219	239	8060	4940	2310	3720	7910	1040	2350	1860	720
20	11100	389	3600	3800	4000	692	6140	5950	2550	932	1310	686
21	7020	230	3580	3930	5730	3940	4150	771	1970	1710	1320	921
22	5840	3440	1750	1880	3150	2430	3540	257	1030	2340	1800	1840
23	12500	1450	1180	1110	2930	1210	900	8880	1480	1990	894	2750
24	2500	1550	510	4500	5070	3040	282	11600	5250	2120	1380	1150
25	6910	569	284	4600	2600	1630	2510	6260	1090	2820	914	605
26	4150	279	230	4580	280	871	2730	5110	498	1970	5910	3380
27	3820	1530	261	5570	1080	726	2370	1230	6140	860	3440	2490
28	5890	2500	1130	14500	3030	4700	1990	346	3450	2800	774	3060
29	5940	5590	2070	10100	---	2630	1480	439	989	1870	2150	3430
30	1160	6690	3920	1910	---	2890	379	452	1330	3090	2500	1160
31	3090	---	5630	5180	---	3020	---	3760	---	914	3850	---
TOTAL	185090	119428	65848	199706	94497	68419	47682	137947	55851	62045	58795	50702
MEAN	5971	3981	2124	6442	3375	2207	1589	4450	1862	2001	1897	1690
MAX	12600	9410	5630	15200	9700	4980	6140	11600	6140	3320	5910	5620
MIN	1050	219	230	846	280	297	246	257	498	834	774	511
AC-FT	367100	236900	130600	396100	187400	135700	94580	273600	110800	123100	116600	100600

CAL YR 1976 TOTAL 1926893 MEAN 5265 MAX 18600 MIN 219 AC-FT 3822000
WTR YR 1977 TOTAL 1146010 MEAN 3140 MAX 15200 MIN 219 AC-FT 2273000

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, Hydrologic Unit 11010003, 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, Jan 18, 31, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C May 31, June 27; minimum 0.0°C Jan 18, 31.

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

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

WHITE RIVER BASIN

07055500 WHITE RIVER AT COTTER, AR--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	6.0	16.0	13.5	18.0	8.5	16.5	9.0	20.0	14.0	17.0	9.5
2	13.5	8.5	14.5	8.0	20.0	7.0	17.0	9.0	18.5	10.5	18.0	9.5
3	10.5	6.0	11.0	6.5	19.0	9.0	20.0	12.0	15.5	9.0	17.0	9.0
4	9.5	6.0	11.5	7.0	18.5	9.0	22.0	12.0	19.0	12.0	18.5	12.0
5	10.0	5.5	---	---	19.0	9.5	20.0	10.0	21.0	10.0	16.5	11.0
6	14.0	6.5	---	---	18.5	10.0	20.0	9.5	19.0	9.0	15.0	10.5
7	16.5	9.5	15.5	8.0	18.5	11.0	19.5	10.0	21.5	13.0	16.5	10.0
8	18.0	11.0	19.0	12.0	20.5	9.0	19.0	9.5	21.5	10.0	17.0	11.0
9	19.0	13.0	16.0	8.5	18.5	8.5	16.5	9.0	19.0	9.5	17.0	11.0
10	19.5	14.5	14.5	6.5	19.0	9.0	16.0	10.0	18.0	10.5	15.0	10.0
11	---	---	15.0	7.0	19.0	8.5	19.0	9.5	18.0	11.0	12.0	10.5
12	---	---	11.5	6.0	21.0	13.0	19.5	9.5	14.5	10.5	19.0	11.0
13	---	---	15.0	13.0	20.0	11.0	20.0	10.0	15.0	10.0	14.5	10.5
14	---	---	13.5	6.5	17.0	9.5	19.5	9.5	18.5	11.0	13.5	10.0
15	---	---	15.0	6.5	19.5	10.5	19.0	9.0	20.5	11.5	15.0	11.5
16	---	---	11.5	7.0	15.5	10.0	19.5	13.0	19.5	10.0	18.0	12.0
17	---	---	13.0	7.0	20.5	11.0	19.5	10.0	15.5	11.5	20.0	14.0
18	16.5	8.5	12.0	7.0	16.0	9.5	21.0	10.0	18.5	10.0	19.5	13.5
19	16.0	13.0	12.0	7.0	13.5	9.0	18.5	9.5	15.0	10.0	18.5	13.0
20	13.0	7.0	13.0	7.0	15.5	9.0	19.0	9.5	18.0	9.5	18.5	14.0
21	12.0	7.0	14.5	8.0	18.5	14.5	19.0	11.0	17.0	10.0	16.5	11.5
22	11.5	7.0	20.5	13.5	20.0	10.0	18.0	10.0	21.0	11.0	13.5	10.0
23	10.0	8.0	21.5	8.0	20.0	12.0	17.0	9.5	18.5	10.5	15.5	9.5
24	12.0	9.0	15.0	8.0	17.0	8.5	15.5	9.5	18.0	11.5	16.5	10.0
25	15.0	8.0	15.0	8.5	16.5	8.0	19.0	9.5	19.5	11.5	18.5	15.0
26	12.0	6.5	14.5	8.0	17.0	13.5	15.0	10.0	19.0	9.0	17.0	9.5
27	13.0	6.0	---	---	23.5	8.5	13.0	9.5	18.5	9.0	17.0	9.5
28	15.5	8.0	---	---	15.5	8.5	17.0	9.0	16.5	10.0	14.5	10.0
29	12.0	9.0	19.0	13.5	18.5	10.0	18.0	9.0	18.0	10.5	15.5	10.0
30	15.5	9.5	21.5	16.0	21.0	12.0	19.5	9.5	18.5	10.0	17.0	10.0
31	---	---	23.5	8.5	---	---	19.5	9.5	16.0	9.5	---	---
MONTH	19.5	5.5	23.5	6.0	23.5	7.0	22.0	9.0	21.5	9.0	20.0	9.0

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, Hydrologic Unit 11010003, 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 mi² (536 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
13...	9827	9827	--	318	8.1	15.0	--	8.2	1.2	90	88	210
NOV												
17...	9827	9827	--	325	8.1	5.0	0	11.1	1.8	50	--	--
DEC												
21...	9827	9827	--	338	8.0	1.0	5	11.6	1.7	10	--	--
FEB												
16...	9827	9827	--	--	--	--	--	--	--	10	--	--
16...	9827	9827	--	333	8.1	2.0	0	12.6	2.6	--	--	--
MAR												
21...	9827	9827	--	318	8.3	11.0	0	11.6	1.5	--	--	170
APR												
20...	9827	9827	43	285	8.0	15.0	5	7.5	1.4	--	--	--
MAY												
18...	9827	9827	32	304	8.0	22.0	0	7.4	3.8	10	--	--
JUN												
15...	9827	9827	--	235	7.8	25.0	180	5.2	>5.2	--	--	--
JUL												
18...	9827	9827	42	293	8.0	28.0	5	6.9	--	300	--	--
AUG												
09...	9827	9827	--	313	8.0	26.0	10	6.2	2.8	720	--	--
SEP												
19...	9827	9827	15	323	8.1	23.0	0	6.4	2.0	920	--	170

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	62	--	44	--	23	7.2	1.4	180	--	148	3.0
NOV											
17...	--	--	--	--	--	--	--	--	--	--	10
DEC											
21...	--	--	--	--	--	--	--	--	--	--	5.0
FEB											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	5.0
MAR											
21...	22	--	56	--	5.8	--	--	180	0	148	6.0
APR											
20...	--	--	--	--	--	--	--	--	--	--	5.0
MAY											
18...	--	--	--	--	--	--	--	--	--	--	7.0
JUN											
15...	--	34	--	4.0	--	4.6	4.2	--	--	--	1.0
JUL											
18...	--	--	--	--	--	--	--	--	--	--	6.0
AUG											
09...	--	--	--	--	--	--	--	--	--	--	5.0
SEP											
19...	--	59	--	6.0	--	10	2.1	--	--	--	7.0

07055600 CROOKED CREEK AT PYATT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT 13...	10	184	--	.28	--	--	<.01	<3	10	<3	<10	40
NOV 17...	9.0	177	2	.12	--	--	<.01	--	--	--	--	--
DEC 21...	9.0	195	12	1.0	--	--	<.01	--	--	--	--	--
FEB 16...	10	198	12	.34	--	--	<.01	--	--	--	--	--
MAR 21...	4.0	179	4	.27	<.10	<.10	.04	--	<10	<3	<10	<20
APR 20...	6.0	157	4	.26	<.10	<.10	<.01	--	--	--	--	--
MAY 18...	7.0	172	9	.27	.01	.20	.01	--	--	--	--	--
JUN 15...	8.0	196	142	.39	<.05	.11	--	--	<10	8	20	4900
JUL 18...	8.0	171	9	.04	.01	.01	.04	--	--	--	--	--
AUG 09...	9.5	183	13	<.05	<.05	.10	.05	--	--	--	--	--
SEP 19...	11	195	14	.23	<.05	--	.05	--	<10	<5	<10	660

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (MG) (UG/L) (71900)	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	25	<.5	20	--	--	--	--	--	--	--	--
NOV 17...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC 21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<10	<27	--	<10	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 15...	<10	180	--	40	--	--	--	--	--	--	--	--
JUL 18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 19...	<10	42	--	<10	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010005, 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.--38 years, 1,034 ft^3/s (29.3 m^3/s), 17.02 in/yr (432 mm/yr), 749,100 acre-ft/yr (924 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, 47,000 ft^3/s (1,330 m^3/s) Mar. 28 at 1100 hours, gage height, 29.15 ft (8.885 m), no other peak above base of 13,000 ft^3/s (368 m^3/s); minimum, 24 ft^3/s (0.68 m^3/s) Oct. 14, 15, 16, 17, 18, 19, gage height, 3.20 ft (0.975 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	53	85	92	159	860	2390	1110	113	84	99	87
2	33	59	106	89	157	707	2080	828	104	89	89	85
3	32	61	106	87	157	1120	1860	756	96	95	83	83
4	30	64	103	84	153	4120	1530	791	88	94	78	80
5	30	69	100	82	159	2630	1280	695	87	93	74	79
6	29	73	114	82	216	1720	1080	600	82	100	70	78
7	28	72	143	80	239	1250	926	508	78	96	67	88
8	28	71	309	80	264	990	816	482	77	93	64	98
9	27	69	380	84	250	820	724	561	75	91	63	90
10	26	66	300	86	232	698	648	550	73	92	61	84
11	27	73	258	86	225	662	576	424	66	89	57	80
12	27	70	275	86	263	2560	516	355	58	85	62	79
13	26	75	281	86	481	2530	478	311	66	83	59	81
14	25	82	260	87	624	1700	442	277	55	82	57	89
15	25	82	242	86	517	1260	413	246	57	77	66	84
16	25	82	221	86	418	1010	387	223	57	72	70	97
17	24	81	201	86	351	839	361	205	53	69	376	132
18	24	80	183	87	301	748	344	187	52	64	2300	132
19	26	80	172	87	267	700	339	175	51	61	891	121
20	27	77	156	92	242	614	371	161	55	58	512	109
21	27	77	142	98	222	526	4570	151	53	54	340	101
22	28	77	134	95	208	453	3370	142	51	53	254	99
23	31	76	126	93	215	395	2220	134	55	51	207	95
24	39	74	121	93	416	345	1770	133	55	50	174	107
25	37	73	117	95	468	308	1400	134	63	50	149	112
26	38	74	113	100	581	279	1110	135	57	65	136	150
27	40	70	109	108	1270	5220	919	128	55	68	122	172
28	42	72	105	122	1060	37800	781	128	58	152	110	192
29	43	73	101	149	---	11400	672	127	71	148	103	3950
30	55	75	97	169	---	4980	1030	123	66	128	96	4660
31	51	---	94	169	---	3170	---	121	---	111	90	---
TOTAL	983	2180	5254	3006	10115	92414	35403	10901	2027	2597	6979	11494
MEAN	31.7	72.7	169	97.0	361	2981	1180	352	67.6	83.8	225	383
MAX	55	82	380	169	1270	37800	4570	1110	113	152	2300	4660
MIN	24	53	85	80	153	279	339	121	51	50	57	78
CFSM	.04	.09	.20	.12	.44	3.60	1.42	.43	.08	.10	.27	.46
IN.	.04	.10	.24	.13	.45	4.15	1.59	.49	.09	.12	.31	.52
AC-FT	1950	4320	10420	5960	20060	183300	70220	21620	4020	5150	13840	22800

CAL YR 1976 TOTAL 208088 MEAN 569 MAX 18000 MIN 24 CFSM .69 IN 9.34 AC-FT 412700
WTR YR 1977 TOTAL 183353 MEAN 502 MAX 37800 MIN 24 CFSM .61 IN 8.23 AC-FT 363700

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
13...	9827	9827	25	271	8.1	15.0	--	7.4	.8	380	28	180
26...	1028	1028	38	--	--	14.0	--	--	--	--	--	--
NOV												
17...	9827	9827	82	278	8.1	5.0	0	11.3	1.3	60	--	--
DEC												
15...	1028	1028	244	--	--	7.5	--	--	--	--	--	--
21...	9827	9827	143	209	8.0	2.0	0	11.4	1.4	<10	--	--
JAN												
17...	9827	9827	85	256	8.0	.0	0	13.8	3.3	15	<4	--
26...	1028	1028	98	--	--	4.0	--	--	--	--	--	--
FEB												
16...	9827	9827	420	155	7.9	3.0	5	12.1	1.1	13	--	--
MAR												
02...	1028	1028	728	--	--	8.0	--	--	--	--	--	--
21...	9827	9827	530	152	7.9	11.0	0	10.2	.9	--	--	84
APR												
12...	1028	1028	505	--	--	20.5	--	--	--	--	--	--
20...	9827	9827	346	191	8.0	19.0	0	8.3	.7	--	--	--
MAY												
18...	9827	9827	187	208	8.1	23.0	0	8.0	1.2	100	--	--
24...	1028	1028	134	--	--	26.0	--	--	--	--	--	--
JUN												
15...	9827	9827	57	247	8.0	27.0	10	7.6	.9	--	--	--
JUL												
06...	1028	1028	101	--	--	31.0	--	--	--	--	--	--
18...	9827	9827	65	230	8.2	30.0	0	9.6	--	20	--	--
AUG												
09...	9827	9827	65	226	8.1	28.0	5	7.3	1.6	35	--	--
10...	9827	9827	--	--	--	--	--	--	--	--	--	--
17...	1028	1028	117	--	--	26.5	--	--	--	--	--	--
SEP												
19...	9827	9827	123	247	8.0	24.0	0	6.9	.8	620	--	140
27...	1028	1028	175	--	--	25.0	--	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	49	--	51	--	13	3.2	1.0	160	--	131	3.0
26...	--	--	--	--	--	--	--	--	--	--	--
NOV											
17...	--	--	--	--	--	--	--	--	--	--	6.0
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	6.0
JAN											
17...	--	--	--	--	--	--	--	--	--	--	6.0
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
16...	--	--	--	--	--	--	--	--	--	--	7.0
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
21...	21	--	31	--	1.7	--	--	77	0	63	5.0
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	6.0
MAY											
18...	--	--	--	--	--	--	--	--	--	--	6.0
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	--	50	--	4.0	--	4.0	1.2	--	--	--	1.0
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
09...	--	--	--	--	--	--	--	--	--	--	5.0
10...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
19...	--	50	--	4.0	--	3.0	1.5	--	--	--	7.0
27...	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	7.0	160	9	<.10	--	--	.02	<3	<10	<3	<10	370
NOV												
17...	5.5	154	3	.33	--	--	<.01	--	--	--	<10	90
DEC												
21...	4.5	132	7	<.10	--	--	<.01	--	--	--	<10	<20
JAN												
17...	5.0	143	2	.10	--	--	.03	--	--	--	20	50
FEB												
16...	3.0	111	4	.10	--	--	<.01	--	--	--	<10	280
MAR												
21...	3.5	80	4	<.10	<.10	<.10	.02	--	<10	<3	20	40
APR												
20...	3.5	111	4	<.10	<.10	<.10	<.01	--	--	--	200	60
MAY												
18...	4.0	118	7	.03	.01	.16	.01	--	--	--	50	310
JUN												
15...	5.0	147	8	.09	<.05	<.05	--	--	<10	<3	50	70
JUL												
18...	5.0	135	6	--	.01	.02	.02	--	--	--	90	120
AUG												
09...	5.5	140	7	<.05	<.05	.12	.02	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	20	70
SEP												
19...	5.0	--	5	.05	<.05	--	.03	--	<10	<20	100	150

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	30	51	1.4	30	--	--	--	--	--	--	--	--
NOV												
17...	70	14	--	10	.00	.00	.02	.00	.00	.00	.00	0
DEC												
21...	400	<27	--	10	--	--	--	--	--	--	--	--
JAN												
17...	40	55	--	40	--	--	--	--	--	--	--	--
FEB												
16...	250	81	--	<10	--	--	--	--	--	--	--	--
MAR												
21...	<10	27	--	30	--	--	--	--	--	--	--	--
APR												
20...	--	11	--	30	--	--	--	--	--	--	--	--
MAY												
18...	<10	53	--	40	--	--	--	--	--	--	--	--
JUN												
15...	50	80	--	60	--	--	--	--	--	--	--	--
JUL												
18...	60	130	--	80	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
10...	30	34	--	<10	--	--	--	--	--	--	--	--
SEP												
19...	<10	52	--	70	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010004, at bridge on State Highway 341, and 1.7 mi (2.7 km) northwest of Norfork.

PERIOD OF RECORD.--Chemical analyses: April 1974 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
13...	9827	9827	7990	245	8.1	16.0	--	7.9	.5	110	28	170
NOV												
17...	9827	9827	3150	259	8.1	10.0	0	10.2	1.0	33	--	--
DEC												
21...	9827	9827	--	244	8.1	--	5	10.5	.7	49	--	--
JAN												
17...	9827	9827	11900	256	8.2	3.0	0	11.9	1.5	38	<4	--
FEB												
16...	9827	9827	10200	242	8.1	4.0	0	12.7	1.8	140	--	--
MAR												
21...	9827	9827	2060	223	8.2	13.0	0	11.0	1.1	--	--	120
APR												
20...	9827	9827	5260	240	8.2	15.0	0	10.5	1.3	--	--	--
MAY												
18...	9827	9827	7540	251	8.1	11.0	0	10.3	1.6	77	--	--
JUN												
15...	9827	9827	1520	266	8.0	20.0	10	8.1	1.3	--	--	--
JUL												
18...	9827	9827	871	256	8.0	21.0	0	7.1	--	20	--	--
AUG												
09...	9827	9827	3830	240	7.9	18.0	5	8.9	1.0	180	--	--
SEP												
19...	9827	9827	1380	265	8.2	22.0	0	8.7	1.1	--	--	160

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	55	--	46	--	15	3.0	1.0	140	--	115	4.0
NOV											
17...	--	--	--	--	--	--	--	--	--	--	7.0
DEC											
21...	--	--	--	--	--	--	--	--	--	--	4.0
JAN											
17...	--	--	--	--	--	--	--	--	--	--	3.0
FEB											
16...	--	--	--	--	--	--	--	--	--	--	5.0
MAR											
21...	22	--	39	--	5.2	--	--	120	0	98	6.0
APR											
20...	--	--	--	--	--	--	--	--	--	--	6.0
MAY											
18...	--	--	--	--	--	--	--	--	--	--	6.0
JUN											
15...	--	41	--	12	--	3.3	1.3	--	--	--	4.0
JUL											
18...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
09...	--	--	--	--	--	--	--	--	--	--	6.0
SEP											
19...	--	45	--	12	--	3.0	1.7	--	--	--	7.0

07057370 WHITE RIVER NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	7.0	146	--	.28	--	--	<.01	<3	<10	<3	<10	60
NOV												
17...	4.5	145	2	<.10	--	--	<.01	--	--	--	<10	70
DEC												
21...	5.0	156	10	<.10	--	--	<.01	--	--	--	<10	<20
JAN												
17...	5.0	142	6	.17	--	--	.02	--	--	--	30	60
FEB												
16...	4.0	144	4	<.10	--	--	<.01	--	--	--	<10	50
MAR												
21...	4.0	115	4	<.10	<.10	<.10	.01	--	<10	<3	70	50
APR												
20...	5.0	143	4	.11	<.10	<.10	<.01	--	--	--	150	50
MAY												
18...	5.5	138	20	.16	<.01	.13	.01	--	--	--	<10	560
JUN												
15...	3.5	151	14	.33	<.05	<.05	--	--	<10	<3	70	90
JUL												
18...	5.5	141	4	.09	.01	.03	.01	--	--	--	130	260
AUG												
09...	5.5	147	12	.15	<.05	.12	.02	--	--	--	20	110
SEP												
19...	5.5	157	4	.08	<.05	--	.02	--	<10	<5	10	150

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	120	38	<.5	20	--	--	--	--	--	--	--	--
NOV												
17...	60	34	--	<10	--	--	--	--	--	--	--	--
DEC												
21...	70	27	--	20	.00	.00	.00	.00	.00	.00	.00	0
JAN												
17...	150	45	--	40	--	--	--	--	--	--	--	--
FEB												
16...	40	47	--	10	--	--	--	--	--	--	--	--
MAR												
21...	<10	50	--	40	--	--	--	--	--	--	--	--
APR												
20...	--	13	--	30	--	--	--	--	--	--	--	--
MAY												
18...	<10	44	--	80	--	--	--	--	--	--	--	--
JUN												
15...	80	99	--	90	--	--	--	--	--	--	--	--
JUL												
18...	110	140	--	160	--	--	--	--	--	--	--	--
AUG												
09...	10	37	--	20	--	--	--	--	--	--	--	--
SEP												
19...	<10	28	--	30	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010006, 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, 1,136,000 acre-ft (1,400 hm³) May 30, elevation, 546.60 ft (166.604 m); minimum, 779,600 acre-ft (961 hm³) Jan. 19, elevation, 526.84 ft (160.581 m).

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

526	766.6	539	987.9
530	830.6	543	1,064
534	898.2	547	1,144

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1069000	974900	902900	857000	786700	817400	1039000	1107000	1132000	1112000	1066000	1021000
2	1068000	969600	899200	857800	787400	819000	1044000	1109000	1131000	1112000	1064000	1018000
3	1068000	964100	894000	851200	788300	822700	1048000	1111000	1129000	1112000	1064000	1018000
4	1063000	958600	894000	847500	789500	825300	1051000	1112000	1126000	1111000	1064000	1017000
5	1061000	956900	894300	845000	790300	827300	1051000	1114000	1127000	1108000	1061000	1017000
6	1056000	957800	896300	838800	791400	828900	1054000	1115000	1127000	1105000	1060000	1017000
7	1057000	958200	893300	830600	791700	830600	1056000	1116000	1127000	1102000	1060000	1016000
8	1057000	957100	891400	825600	792800	832200	1058000	1117000	1122000	1101000	1057000	1015000
9	1057000	957100	890000	822200	793500	833700	1060000	1117000	1120000	1101000	1056000	1013000
10	1057000	956700	887400	813900	794400	834800	1063000	1118000	1116000	1102000	1056000	1012000
11	1054000	954900	885800	805900	795900	838100	1064000	1119000	1116000	1099000	1053000	1014000
12	1050000	951400	885100	800000	797100	840600	1066000	1120000	1116000	1099000	1050000	1012000
13	1044000	952000	883400	795500	798300	843100	1066000	1120000	1114000	1096000	1048000	1014000
14	1039000	952500	883100	794600	799400	845000	1068000	1121000	1114000	1093000	1048000	1019000
15	1037000	951200	882900	796000	800700	847200	1069000	1122000	1113000	1090000	1045000	1021000
16	1038000	948600	882900	796300	801600	848700	1071000	1121000	1113000	1090000	1047000	1022000
17	1037000	945300	882200	790300	802600	850000	1072000	1122000	1113000	1090000	1050000	1023000
18	1030000	939600	883200	783100	803700	851900	1074000	1122000	1111000	1088000	1048000	1024000
19	1025000	938000	883400	779600	804700	853800	1077000	1124000	1112000	1084000	1045000	1025000
20	1018000	938700	876400	780700	805600	854600	1079000	1125000	1113000	1081000	1045000	1026000
21	1010000	939100	869300	781500	806600	855600	1083000	1126000	1111000	1079000	1045000	1026000
22	1000000	934800	866600	782300	806700	857100	1086000	1127000	1111000	1076000	1041000	1025000
23	998000	928200	864100	783500	809900	858300	1090000	1129000	1112000	1075000	1039000	1024000
24	999500	924100	862500	784700	810900	859500	1092000	1129000	1111000	1074000	1036000	1031000
25	994100	924300	863600	785500	811900	860500	1094000	1130000	1112000	1072000	1035000	1051000
26	988600	923900	864100	786300	814300	862200	1096000	1131000	1113000	1072000	1031000	1055000
27	985300	924600	863200	787200	815400	898300	1098000	1132000	1110000	1072000	1029000	1063000
28	980600	924300	863900	787100	816200	980000	1100000	1132000	1112000	1069000	1030000	1071000
29	977300	916800	861000	787500	---	1013000	1102000	1133000	1114000	1068000	1029000	1090000
30	978200	908900	858800	788700	---	1025000	1105000	1133000	1113000	1068000	1026000	1097000
31	978900	---	856600	787400	---	1032000	---	1133000	---	1067000	1023000	---
MAX	1069000	974900	902900	857800	816200	1032000	1105000	1133000	1132000	1112000	1066000	1097000
MIN	977300	908900	856600	779600	786700	817400	1039000	1107000	1110000	1067000	1023000	1012000
(†)	538.51	534.62	531.57	527.33	529.13	541.34	545.04	546.43	545.45	543.16	540.88	544.67
(‡)	-92100	-70000	-52300	-69200	+28800	+215800	+73000	+28000	-20000	-46000	-44000	+74000

CAL YR 1976 MAX 1261000 MIN 856600 ‡ -311400
WTR YR 1977 MAX 1133000 MIN 779600 ‡ -26000

† 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 corrent year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
19...	1028	--	--	--	--	--	--	150	--	--	--	--
19...	1028	1028	.0	315	8.5	19.5	--	--	8.0	--	--	--
19...	1028	1028	10	315	8.5	19.5	--	--	7.9	--	--	--
19...	1028	1028	20	315	8.5	19.5	--	--	7.9	--	--	--
19...	1028	1028	30	315	8.5	19.5	--	--	7.9	--	--	--
19...	1028	1028	40	315	8.5	19.5	--	--	7.8	--	--	--
19...	1028	1028	50	320	8.5	19.5	--	--	7.8	--	--	--
19...	1028	1028	60	320	8.5	19.5	--	--	7.8	--	--	--
19...	1028	1028	65	320	8.2	19.0	--	--	5.6	--	--	--
19...	1028	1028	70	335	7.8	17.5	--	--	.4	--	--	--
19...	1028	1028	75	335	7.8	16.0	--	--	.2	--	--	--
19...	1028	1028	80	335	7.8	15.0	--	--	.1	--	--	--
19...	1028	1028	90	335	7.8	14.5	--	--	.1	--	--	--
19...	1028	1028	100	340	7.9	13.5	--	--	.1	--	--	--
19...	1028	1028	110	340	7.9	12.5	--	--	.1	--	--	--
19...	1028	1028	120	340	7.9	11.5	--	--	.1	--	--	--
19...	1028	1028	130	350	7.8	11.0	--	--	.1	--	--	--
19...	1028	1028	140	355	7.8	10.5	--	--	.1	--	--	--
19...	1028	1028	145	350	7.9	10.0	--	--	.1	--	--	--
28...	810	--	--	--	--	--	--	192	--	--	--	--
28...	810	1028	.0	--	--	--	--	--	--	--	0	--
28...	810	1028	25	307	--	--	--	--	--	.8	--	--
28...	810	810	25	325	7.6	16.5	10	--	7.5	--	--	168
28...	810	1028	100	350	--	--	--	--	--	3.2	--	--
28...	810	810	100	360	6.9	13.5	10	--	.7	--	--	196
NOV												
17...	1028	--	--	--	--	--	--	96	--	--	--	--
17...	1028	1028	.0	330	7.9	13.5	--	--	8.2	--	--	--
17...	1028	1028	10	330	7.9	13.5	--	--	7.9	--	--	--
17...	1028	1028	20	330	7.9	13.5	--	--	7.8	--	--	--
17...	1028	1028	30	330	7.9	13.5	--	--	7.7	--	--	--
17...	1028	1028	40	330	7.9	13.5	--	--	7.7	--	--	--
17...	1028	1028	50	330	7.9	13.5	--	--	7.7	--	--	--
17...	1028	1028	60	330	7.9	13.5	--	--	7.7	--	--	--
17...	1028	1028	70	330	7.9	13.5	--	--	7.8	--	--	--
17...	1028	1028	80	330	7.9	13.5	--	--	7.9	--	--	--
17...	1028	1028	90	330	7.9	13.5	--	--	7.8	--	--	--
17...	1028	1028	100	335	7.7	13.0	--	--	5.9	--	--	--
17...	1028	1028	110	350	7.5	12.5	--	--	2.3	--	--	--
17...	1028	1028	120	375	7.4	12.0	--	--	.2	--	--	--

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												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	1.3	--	4.4	2.3	.01	.09	.12	.21	.22	.97	.00
28...	80	--	168	--	--	--	--	--	--	--	--	--
28...	--	2.0	--	4.6	2.7	.04	.35	.50	.85	.89	3.9	.02
28...	96	--	186	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	.00	70	0	0	190	70	100	40	.2	<50	170
28...	--	--	--	--	--	--	--	--	--	--	--
28...	.02	110	0	0	250	280	100	830	.0	<50	260
28...	--	--	--	--	--	--	--	--	--	--	--

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
NOV								
17...	1028	1028	130	370	7.4	11.0	--	.1
17...	1028	1028	140	370	7.4	10.5	--	.1
17...	1028	1028	145	370	7.5	10.0	--	.1
DEC								
15...	1028	--	--	--	--	--	84	--
15...	1028	1028	.0	320	8.2	9.5	--	10.4
15...	1028	1028	10	320	8.2	9.5	--	10.4
15...	1028	1028	20	320	8.2	9.0	--	10.2
15...	1028	1028	30	320	8.2	9.0	--	10.2
15...	1028	1028	40	320	8.2	9.0	--	10.0
15...	1028	1028	50	320	8.2	9.0	--	10.0
15...	1028	1028	60	320	8.2	9.0	--	10.0
15...	1028	1028	70	325	8.2	9.0	--	10.0
15...	1028	1028	80	325	8.2	9.0	--	10.0
15...	1028	1028	90	325	8.2	9.0	--	10.0
15...	1028	1028	100	325	8.2	9.0	--	10.0
15...	1028	1028	110	330	8.2	9.0	--	10.0
15...	1028	1028	120	330	8.2	9.0	--	10.0
15...	1028	1028	130	330	8.2	9.0	--	10.0
15...	1028	1028	140	330	8.2	9.0	--	10.0
15...	1028	1028	145	330	8.2	9.0	--	10.0
FEB								
09...	1028	--	--	--	--	--	144	--
09...	1028	1028	.0	320	8.4	4.0	--	14.0
09...	1028	1028	10	320	8.4	4.0	--	14.0
09...	1028	1028	20	320	8.4	4.0	--	14.0
09...	1028	1028	30	320	8.4	4.0	--	14.0
09...	1028	1028	40	320	8.4	4.0	--	14.0
09...	1028	1028	50	320	8.4	4.0	--	14.0
09...	1028	1028	60	320	8.4	4.0	--	14.0
09...	1028	1028	70	320	8.4	4.0	--	14.0
09...	1028	1028	80	325	8.4	4.0	--	14.0
09...	1028	1028	90	325	8.4	4.0	--	14.0
09...	1028	1028	100	325	8.4	3.5	--	13.9
09...	1028	1028	110	325	8.4	3.5	--	13.9
09...	1028	1028	120	325	8.4	3.5	--	13.9
09...	1028	1028	130	325	8.4	3.5	--	13.8
09...	1028	1028	140	325	8.4	3.5	--	13.8
MAR								
09...	1028	--	--	--	--	--	168	--

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
MAR												
09...	1028	1028	.0	305	8.4	6.0	--	--	13.4	--	--	--
09...	1028	1028	10	305	8.4	6.0	--	--	13.3	--	--	--
09...	1028	1028	20	310	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	30	310	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	40	315	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	50	315	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	60	320	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	70	320	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	80	320	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	90	320	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	100	320	8.4	5.5	--	--	13.3	--	--	--
09...	1028	1028	110	320	8.4	5.5	--	--	13.2	--	--	--
09...	1028	1028	120	325	8.4	5.5	--	--	13.2	--	--	--
09...	1028	1028	130	330	8.4	5.5	--	--	13.1	--	--	--
APR												
06...	1028	--	--	--	--	--	--	180	--	--	--	--
06...	1028	1028	.0	325	8.2	12.0	--	--	11.6	--	--	--
06...	1028	1028	10	325	8.2	11.5	--	--	11.6	--	--	--
06...	1028	1028	20	325	8.2	11.0	--	--	11.6	--	--	--
06...	1028	1028	30	325	8.2	11.0	--	--	11.7	--	--	--
06...	1028	1028	40	325	8.2	11.0	--	--	11.8	--	--	--
06...	1028	1028	50	325	8.2	11.0	--	--	11.8	--	--	--
06...	1028	1028	60	330	8.2	11.0	--	--	11.9	--	--	--
06...	1028	1028	70	330	8.2	10.5	--	--	11.9	--	--	--
06...	1028	1028	75	330	8.2	10.0	--	--	12.0	--	--	--
06...	1028	1028	80	330	8.2	9.5	--	--	12.1	--	--	--
06...	1028	1028	85	330	8.2	9.0	--	--	12.3	--	--	--
06...	1028	1028	90	330	8.2	8.5	--	--	12.3	--	--	--
06...	1028	1028	100	330	8.2	8.5	--	--	12.4	--	--	--
06...	1028	1028	110	330	8.2	8.0	--	--	12.3	--	--	--
06...	1028	1028	120	330	8.2	7.5	--	--	12.3	--	--	--
06...	1028	1028	130	330	8.2	7.0	--	--	12.3	--	--	--
06...	1028	1028	140	330	8.2	7.0	--	--	12.2	--	--	--
06...	1028	1028	150	330	8.1	7.0	--	--	12.0	--	--	--
MAY												
01...	810	--	--	--	--	--	--	204	--	--	--	--
01...	810	1028	.0	--	--	--	--	--	--	--	0	--
01...	810	1028	25	--	--	--	--	--	--	1.2	--	--
01...	810	810	25	330	7.5	16.0	10	--	9.2	--	--	166
01...	810	1028	100	--	--	--	--	--	--	.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)
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	1.3	--	5.6	2.2	.19	.05	.26	.31	.50	2.2	.01
01...	84	--	172	--	--	--	--	--	--	--	--	--
01...	--	1.2	--	5.2	2.3	.17	.01	.18	.19	.36	1.6	.01

DATE	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)
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	.01	100	1	0	<10	120	<100	0	.1	<50	250
01...	--	--	--	--	--	--	--	--	--	--	--
01...	.01	50	1	0	<10	40	<100	10	.5	<50	50

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
MAY												
01...	810	810	100	370	7.7	8.5	10	--	9.9	182	52	182
02...	1028	--	--	--	--	--	--	240	--	--	--	--
02...	1028	1028	.0	310	8.4	20.5	--	--	10.4	--	--	--
02...	1028	1028	10	310	8.3	19.5	--	--	10.4	--	--	--
02...	1028	1028	20	310	8.3	18.5	--	--	9.9	--	--	--
02...	1028	1028	25	315	8.2	16.5	--	--	9.3	--	--	--
02...	1028	1028	30	315	8.1	14.5	--	--	9.3	--	--	--
02...	1028	1028	35	320	8.1	13.0	--	--	9.9	--	--	--
02...	1028	1028	40	320	8.2	11.5	--	--	10.4	--	--	--
02...	1028	1028	50	320	8.2	11.0	--	--	10.4	--	--	--
02...	1028	1028	60	320	8.2	10.5	--	--	10.7	--	--	--
02...	1028	1028	70	325	8.3	10.0	--	--	10.8	--	--	--
02...	1028	1028	80	325	8.3	9.5	--	--	11.0	--	--	--
02...	1028	1028	90	330	8.3	8.5	--	--	11.1	--	--	--
02...	1028	1028	100	330	8.3	8.0	--	--	11.0	--	--	--
02...	1028	1028	110	330	8.3	7.5	--	--	10.9	--	--	--
02...	1028	1028	120	330	8.3	7.5	--	--	10.7	--	--	--
02...	1028	1028	130	330	8.2	7.5	--	--	10.5	--	--	--
02...	1028	1028	140	330	8.2	7.5	--	--	10.5	--	--	--
02...	1028	1028	150	330	8.1	7.5	--	--	9.9	--	--	--
02...	1028	1028	153	330	8.1	7.0	--	--	8.9	--	--	--
JUN												
01...	1028	--	--	--	--	--	--	216	--	--	--	--
01...	1028	1028	.0	315	8.3	27.9	--	--	10.0	--	--	--
01...	1028	1028	10	315	8.6	27.0	--	--	10.0	--	--	--
01...	1028	1028	20	315	8.6	26.0	--	--	10.0	--	--	--
01...	1028	1028	25	315	8.4	23.0	--	--	9.5	--	--	--
01...	1028	1028	30	315	7.9	18.5	--	--	7.3	--	--	--
01...	1028	1028	35	320	7.9	15.5	--	--	6.5	--	--	--
01...	1028	1028	40	330	8.0	13.0	--	--	7.2	--	--	--
01...	1028	1028	50	330	8.0	12.0	--	--	7.7	--	--	--
01...	1028	1028	60	330	8.1	11.5	--	--	8.2	--	--	--
01...	1028	1028	70	330	8.1	10.5	--	--	8.8	--	--	--
01...	1028	1028	80	335	8.2	10.0	--	--	9.2	--	--	--
01...	1028	1028	90	335	8.2	9.5	--	--	9.4	--	--	--
01...	1028	1028	100	340	8.2	9.0	--	--	9.7	--	--	--
01...	1028	1028	110	340	8.2	8.5	--	--	9.7	--	--	--
01...	1028	1028	120	340	8.2	8.5	--	--	9.5	--	--	--
01...	1028	1028	130	340	8.1	8.0	--	--	9.2	--	--	--
01...	1028	1028	140	340	8.1	8.0	--	--	8.7	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
JUN								
01...	1028	1028	150	340	8.1	7.5	--	8.2
01...	1028	1028	160	340	8.1	7.5	--	7.9
28...	1028	--	--	--	--	--	168	--
28...	1028	1028	.0	320	8.6	27.5	--	9.2
28...	1028	1028	10	320	8.6	27.5	--	9.2
28...	1028	1028	20	325	8.5	26.5	--	9.9
28...	1028	1028	25	330	8.2	23.0	--	9.6
28...	1028	1028	35	335	7.9	19.0	--	7.8
28...	1028	1028	40	340	7.7	14.0	--	7.7
28...	1028	1028	45	345	7.7	12.5	--	6.1
28...	1028	1028	50	350	7.8	11.5	--	7.2
28...	1028	1028	60	350	7.9	10.5	--	7.8
28...	1028	1028	70	355	7.9	9.5	--	8.2
28...	1028	1028	80	360	8.0	9.0	--	8.8
28...	1028	1028	90	360	8.0	9.0	--	8.9
28...	1028	1028	100	360	8.0	8.5	--	9.1
28...	1028	1028	110	360	8.0	8.0	--	9.1
28...	1028	1028	120	360	8.0	8.0	--	8.6
28...	1028	1028	130	365	8.0	7.5	--	8.4
28...	1028	1028	140	365	8.0	7.5	--	8.1
28...	1028	1028	150	365	8.0	7.5	--	7.7
28...	1028	1028	160	365	7.9	7.5	--	6.9
JUL								
27...	1028	--	--	--	--	--	198	--
27...	1028	1028	.0	320	8.5	28.5	--	8.2
27...	1028	1028	10	320	8.5	28.5	--	8.1
27...	1028	1028	20	320	8.5	28.5	--	8.1
27...	1028	1028	25	320	8.5	28.5	--	8.1
27...	1028	1028	30	330	8.3	26.0	--	8.4
27...	1028	1028	35	335	8.1	21.5	--	6.8
27...	1028	1028	40	345	7.9	18.5	--	4.8
27...	1028	1028	45	345	7.8	15.0	--	3.8
27...	1028	1028	50	345	7.8	13.0	--	4.2
27...	1028	1028	55	345	7.9	12.0	--	4.7
27...	1028	1028	60	350	7.9	11.0	--	5.6
27...	1028	1028	70	350	8.0	10.5	--	6.0
27...	1028	1028	80	355	8.0	10.0	--	6.8
27...	1028	1028	90	360	8.0	9.5	--	6.9
27...	1028	1028	100	365	8.0	9.0	--	6.5
27...	1028	1028	110	365	7.9	8.5	--	6.3

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
JUL												
27...	1028	1028	120	365	7.9	8.0	--	--	6.0	--	--	--
27...	1028	1028	130	365	7.9	8.0	--	--	5.8	--	--	--
27...	1028	1028	140	365	7.9	8.0	--	--	5.0	--	--	--
27...	1028	1028	150	365	7.8	7.5	--	--	3.7	--	--	--
27...	1028	1028	155	370	7.7	7.5	--	--	2.8	--	--	--
AUG												
23...	1028	--	--	--	--	--	--	180	--	--	--	--
23...	1028	1028	.0	315	8.4	28.5	--	--	8.4	--	--	--
23...	1028	1028	10	315	8.4	28.5	--	--	8.4	--	--	--
23...	1028	1028	20	320	8.4	28.0	--	--	8.4	--	--	--
23...	1028	1028	25	320	8.4	28.0	--	--	8.2	--	--	--
23...	1028	1028	30	340	8.0	26.0	--	--	7.4	--	--	--
23...	1028	1028	35	340	7.9	23.0	--	--	7.0	--	--	--
23...	1028	1028	40	340	7.6	20.0	--	--	4.4	--	--	--
23...	1028	1028	45	345	7.5	17.0	--	--	2.5	--	--	--
23...	1028	1028	50	345	7.5	15.0	--	--	2.3	--	--	--
23...	1028	1028	55	350	7.6	13.0	--	--	2.8	--	--	--
23...	1028	1028	60	355	7.6	11.5	--	--	4.2	--	--	--
23...	1028	1028	70	355	7.7	10.5	--	--	4.8	--	--	--
23...	1028	1028	80	360	7.7	10.0	--	--	5.2	--	--	--
23...	1028	1028	90	360	7.7	9.5	--	--	5.2	--	--	--
23...	1028	1028	100	365	7.7	9.5	--	--	5.4	--	--	--
23...	1028	1028	110	365	7.7	9.0	--	--	5.3	--	--	--
23...	1028	1028	120	370	7.7	9.0	--	--	4.5	--	--	--
23...	1028	1028	130	370	7.7	8.5	--	--	4.0	--	--	--
23...	1028	1028	140	370	7.7	8.0	--	--	2.8	--	--	--
23...	1028	1028	145	370	7.7	8.0	--	--	2.4	--	--	--
26...	810	--	--	--	--	--	--	264	--	--	--	--
26...	810	1028	.0	--	--	--	--	--	--	--	0	--
26...	810	1028	25	--	--	--	--	--	--	1.4	--	--
26...	810	810	25	225	8.8	28.0	2	--	7.4	--	--	83
26...	810	1028	100	--	--	--	--	--	--	1.4	--	--
26...	810	810	100	305	7.9	14.0	10	--	4.6	--	--	92
SEP												
13...	1028	--	--	--	--	--	--	204	--	--	--	--
13...	1028	1028	.0	300	8.6	26.5	--	--	8.2	--	--	--
13...	1028	1028	10	300	8.6	26.5	--	--	8.2	--	--	--
13...	1028	1028	20	300	8.5	26.5	--	--	8.2	--	--	--
13...	1028	1028	30	315	8.2	26.0	--	--	6.1	--	--	--
13...	1028	1028	35	325	7.8	24.0	--	--	4.3	--	--	--

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)
AUG												
23...	--	--	--	--	--	--	--	--	--	--	--	--

07059500 NORFORK LAKE NEAR NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.00	70	1	0	50	0	<100	0	.0	<50	50
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.05	70	1	10	100	0	<100	10	.2	<50	100
26...	--	--	--	--	--	--	--	--	--	--	--
SEP											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
SEP							
13...	1028	1028	40	325	7.8	22.0	3.3
13...	1028	1028	45	325	7.7	19.0	1.3
13...	1028	1028	50	325	7.7	16.5	.8
13...	1028	1028	55	330	7.7	15.0	1.1
13...	1028	1028	60	330	7.8	13.0	1.9
13...	1028	1028	70	335	7.9	11.5	3.2
13...	1028	1028	80	335	7.9	11.0	4.0
13...	1028	1028	90	340	7.9	10.0	4.5
13...	1028	1028	100	345	7.9	9.5	4.3
13...	1028	1028	110	350	7.9	9.5	3.7
13...	1028	1028	120	350	7.8	9.0	3.2
13...	1028	1028	130	355	7.8	9.0	2.2
13...	1028	1028	140	355	7.8	8.5	1.6
13...	1028	1028	150	355	7.8	8.5	.2
13...	1028	1028	152	355	7.7	8.5	.1

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

LOCATION.--Lat 36°14'18", long 92°14'18", in SE¼SW¼ sec.2, T.18 N., R.12 W., Baxter County, Hydrologic Unit 11010006, 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.--33 years, 1,827 ft^3/s (51.7 m^3/s), 1,324,000 acre-ft/yr (1,630 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, 4,770 ft^3/s (135 m^3/s) Oct. 22; minimum daily, 124 ft^3/s (3.51 m^3/s) at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1600	2550	3080	137	799	135	129	125	507	2050	864	1520
2	923	3140	2360	138	136	147	129	130	1380	849	1040	1590
3	505	2960	2880	3600	135	133	130	126	1660	1220	640	470
4	2450	2920	409	2310	142	134	524	461	1480	1220	580	899
5	2100	1170	192	1950	138	134	1190	353	329	2040	1510	882
6	2360	132	995	3360	137	134	562	352	1270	2200	459	1050
7	273	131	1720	4310	141	137	127	276	262	1790	399	993
8	127	902	1350	2600	142	133	244	291	1720	1270	2110	816
9	225	486	1120	2820	141	130	126	580	1350	420	761	1540
10	273	616	2080	4200	134	133	126	335	1900	367	691	567
11	1830	2000	1250	4240	134	129	911	127	483	1880	2000	341
12	2580	1830	913	3300	136	134	253	127	452	785	1870	767
13	3280	134	1330	3040	139	135	776	126	1270	1730	1040	1010
14	2710	134	666	1020	138	130	126	341	1380	1850	697	263
15	1280	1050	628	138	138	131	246	262	928	1770	1760	264
16	125	1820	628	141	138	135	125	1330	398	568	756	431
17	489	2070	767	3600	140	129	125	125	814	467	634	408
18	3420	3130	132	3530	136	134	410	125	874	1720	1650	447
19	3430	1520	805	2020	136	130	125	125	339	2220	1900	332
20	3800	130	3390	138	140	130	126	127	893	1690	770	461
21	4140	131	3470	139	137	134	127	125	913	1350	298	409
22	4770	2560	1750	139	132	132	350	125	390	1920	2470	946
23	1940	3480	1560	139	133	131	128	267	400	962	1400	834
24	126	2350	1080	141	135	133	127	244	1150	852	1490	298
25	3190	130	133	140	132	131	129	274	359	1760	1180	367
26	3150	1190	135	140	134	130	127	264	124	302	2220	1210
27	1920	133	922	138	138	130	126	264	1700	340	1210	2180
28	2560	430	212	631	135	423	127	265	786	1430	262	638
29	2360	3820	1640	139	---	364	198	255	577	774	934	860
30	130	4040	1660	143	---	355	124	330	1840	803	1760	353
31	131	---	1270	1040	---	367	---	1010	---	508	1600	---
TOTAL	58197	47089	40527	49521	4496	5097	8073	9267	27928	39107	36955	23146
MEAN	1877	1570	1307	1597	161	164	269	299	931	1262	1192	772
MAX	4770	4040	3470	4310	799	423	1190	1330	1900	2220	2470	2180
MIN	125	130	132	137	132	129	124	125	124	302	262	263
AC-FT	115400	93400	80390	98220	8920	10110	16010	18380	55400	77570	73300	45910

CAL YR 1976 TOTAL 524347 MEAN 1433 MAX 4770 MIN 95 AC-FT 1040000
WTR YR 1977 TOTAL 349403 MEAN 957 MAX 4770 MIN 124 AC-FT 693000

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)
OCT											
19...	1028	1028	315	8.1	13.0	--	6.2	--	--	--	--
28...	810	1028	323	--	--	--	--	1.1	1	--	--
28...	810	810	340	6.4	12.0	8	6.4	--	--	182	92
NOV											
17...	1028	1028	360	7.8	12.5	--	10.4	--	--	--	--
DEC											
15...	1028	1028	325	8.2	9.5	--	11.2	--	--	--	--
JAN											
27...	1028	1028	330	8.4	5.0	--	16.2	--	--	--	--
FEB											
09...	1028	1028	330	8.5	3.5	--	12.2	--	--	--	--
MAR											
09...	1028	1028	320	8.6	7.0	--	14.0	--	--	--	--
APR											
06...	1028	1028	320	8.3	9.0	--	13.8	--	--	--	--
30...	810	1028	--	--	--	--	--	1.2	42	--	--
30...	810	810	275	7.9	9.0	10	13.0	--	--	190	92
MAY											
02...	1028	1028	310	8.8	10.5	--	18.5	--	--	--	--
JUN											
01...	1028	1028	340	8.2	9.5	--	11.2	--	--	--	--
28...	1028	1028	360	8.0	9.5	--	15.8	--	--	--	--
JUL											
27...	1028	1028	360	8.1	9.0	--	10.7	--	--	--	--
AUG											
23...	1028	1028	365	7.9	10.5	--	10.3	--	--	--	--
24...	810	1028	--	--	--	--	--	1.4	3	--	--
24...	810	810	295	7.7	11.0	10	7.2	--	--	186	94
SEP											
13...	1028	1028	345	8.1	10.5	--	9.8	--	--	--	--

DATE	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											
19...	--	--	--	--	--	--	--	--	--	--	--
28...	1.3	--	4.2	2.2	.00	.00	.25	.25	.25	1.1	.02
28...	--	182	--	--	--	--	--	--	--	--	--
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
30...	1.2	--	11	2.5	.20	.07	.10	.17	.37	1.6	.04
30...	--	186	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--
24...	1.3	--	7.5	2.5	.28	.06	.04	.10	.38	1.7	.04
24...	--	198	--	--	--	--	--	--	--	--	--
SEP											
13...	--	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
19...	--	--	--	--	--	--	--	--	--	--	--
28...	.00	80	1	0	160	190	<100	440	.0	<50	150
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
30...	.04	80	1	0	<10	70	<100	30	.0	<50	20
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--
24...	.01	90	0	10	90	10	<100	30	.1	<50	90
24...	--	--	--	--	--	--	--	--	--	--	--
SEP											
13...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010006, at Rose Dock downstream from bridge on State Highway 5, 0.2 mi (0.3 km) upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: April 1974 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
13...	9827	9827	5730	305	7.9	17.0	--	4.5	1.4	110	15	240
NOV												
17...	9827	9827	2980	334	8.1	13.0	0	8.0	2.8	27	--	--
DEC												
21...	9827	9827	6070	318	8.2	5.0	0	9.9	1.5	<7	--	--
JAN												
17...	9827	9827	5330	338	8.3	5.0	0	11.9	1.8	25	<4	--
FEB												
16...	9827	9827	20	345	8.3	4.0	0	13.2	2.8	220	--	--
MAR												
21...	9827	9827	20	346	8.3	11.0	0	11.9	2.3	--	--	210
APR												
20...	9827	9827	20	339	8.2	14.0	5	10.1	.2	--	--	--
MAY												
18...	9827	9827	20	326	8.4	15.0	0	9.3	2.4	53	--	--
JUN												
15...	9827	9827	20	354	8.1	21.0	5	10.5	3.1	--	--	--
JUL												
18...	9827	9827	20	357	8.0	13.0	0	8.4	--	400	--	--
AUG												
09...	9827	9827	20	260	7.3	24.0	5	6.3	1.5	6000	--	--
SEP												
19...	9827	9827	20	356	8.2	15.0	0	10.8	1.8	720	--	220

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	68	--	48	--	28	1.5	.9	210	--	172	2.0
NOV											
17...	--	--	--	--	--	--	--	--	--	--	3.0
DEC											
21...	--	--	--	--	--	--	--	--	--	--	3.0
JAN											
17...	--	--	--	--	--	--	--	--	--	--	3.0
FEB											
16...	--	--	--	--	--	--	--	--	--	--	4.0
MAR											
21...	21	--	43	--	26	--	--	230	0	189	5.0
APR											
20...	--	--	--	--	--	--	--	--	--	--	5.0
MAY											
18...	--	--	--	--	--	--	--	--	--	--	5.0
JUN											
15...	--	41	--	26	--	1.9	1.0	--	--	--	1.0
JUL											
18...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
09...	--	--	--	--	--	--	--	--	--	--	6.0
SEP											
19...	--	50	--	23	--	2.0	1.3	--	--	--	6.0

07060010 NORTH FORK RIVER AT NORFORK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	6.0	187	3	.15	--	--	.05	<3	<10	<3	10	150
NOV												
17...	3.5	188	--	<.10	--	--	<.01	--	--	--	--	--
DEC												
21...	6.0	201	6	<.10	--	--	<.01	--	--	--	--	--
JAN												
17...	3.5	176	3	<.10	--	--	.04	--	--	--	--	--
FEB												
16...	3.0	197	1	<.10	--	--	<.01	--	--	--	--	--
MAR												
21...	4.0	191	2	<.10	<.10	<.10	.02	--	10	<3	<10	2300
APR												
20...	3.5	194	2	<.01	<.01	<.10	<.01	--	--	--	--	--
MAY												
18...	4.0	185	6	.01	<.01	.12	.01	--	--	--	--	--
JUN												
15...	3.5	192	4	.15	<.05	<.05	--	--	<10	<3	20	80
JUL												
18...	3.5	190	<1	.12	.01	.01	.01	--	--	--	--	--
AUG												
09...	16	147	3	.07	<.05	.11	.02	--	--	--	--	--
SEP												
19...	4.0	193	1	.10	<.05	--	.01	--	<10	<5	<10	50

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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	280	<.5	20	--	--	--	--	--	--	--	--
NOV												
17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	<10	<27	--	<10	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
18...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	<10	29	--	20	--	--	--	--	--	--	--	--
JUL												
18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
19...	<10	<8	--	<10	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010004, 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 mi² (25,840 km²).

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.--38 years, 9,973 ft³/s (282 m³/s), 7,225,000 acre-ft/yr (8,910 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 310,000 ft³/s (8,780 m³/s) Apr. 16, 1945, gage height, 49.84 ft (15.191 m) present datum; minimum observed, 305 ft³/s (8.64 m³/s) Sept. 27, 1954; minimum daily, 310 ft³/s (8.78 m³/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 ft³/s (9,910 m³/s).

EXTREMES FOR CURRENT YEAR:--Maximum discharge, 66,700 ft³/s (1,890 m³/s) Mar. 29, gage height, 19.97 ft (6.087 m); minimum, 720 ft³/s (20.4 m³/s) Nov. 21; minimum daily 771 ft³/s (21.8 m³/s) Nov. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9460	5950	10700	5540	8780	5450	9370	2180	4840	3870	1830	5910
2	11500	14900	8200	1330	4140	5570	6330	2610	2350	5160	2490	4760
3	12100	10400	7420	5200	2880	7450	6110	6600	4050	2740	3780	7140
4	12000	11000	4520	7190	1700	3790	5210	7750	4240	2580	2270	2120
5	14300	10600	1840	4910	2090	8810	7120	6540	3490	3620	2910	2440
6	8920	5240	1890	8010	1770	4690	4700	10700	2610	5560	4630	3210
7	2780	6200	5150	10200	1490	3550	3570	3660	2250	3900	1830	3060
8	1550	5810	7240	9020	7360	5730	2720	2670	1900	4240	2490	2580
9	5510	9500	6820	13200	6080	5490	2400	2580	4730	4450	4510	2890
10	2940	5190	6580	16400	3860	3050	2090	6010	4610	2280	2890	3400
11	2330	3920	4930	19500	2280	2940	2390	3460	4130	2150	2940	2240
12	4990	11100	3250	16500	1600	3460	2510	3690	1870	4610	3540	1860
13	11200	7440	2860	11800	1280	4660	2210	5540	2000	3640	3850	2820
14	11100	4000	2880	6970	1190	4600	2120	8910	3450	3750	2840	4630
15	7020	1450	1980	3040	9400	5290	2170	8810	2360	5440	2180	2880
16	6680	8080	2020	10600	10300	4150	3210	7310	2750	3790	3270	1670
17	3450	5140	2080	15400	10400	3510	1720	11700	1490	2680	3040	1770
18	6160	4500	1370	12800	7590	6930	1800	7590	3020	2510	3040	1660
19	11600	3040	1410	10100	4570	4060	4340	11300	3290	5080	6460	1630
20	18700	1760	3240	9520	6360	3810	5330	8780	2040	4730	4680	1540
21	14000	771	8040	3660	4540	2150	7750	6560	3830	2510	3520	1630
22	11300	1700	6490	4800	7300	5780	9540	1550	2970	3670	3160	2050
23	9390	7110	3650	2590	3960	2820	9320	1130	1800	4370	4480	3390
24	13500	4940	3210	1710	3800	2420	4460	11700	2510	3070	3400	4240
25	4970	3100	1230	5580	6190	4030	3400	13800	6850	3880	2930	2030
26	10600	1560	856	5260	3680	2570	5600	7400	1700	4620	3720	1940
27	6370	1340	1180	5220	1880	4130	5180	5700	1650	2600	8670	6450
28	7110	2170	1170	9190	3220	40700	4380	2130	9140	1890	4260	4780
29	8680	4460	2440	17000	---	51200	3750	1410	3240	4670	2170	8130
30	6960	10900	3940	7530	---	19900	3490	1330	2690	2690	4100	12900
31	1500	---	6400	3320	---	11900	---	1760	---	4050	4460	---
TOTAL	258670	173271	124986	263090	129690	244590	134290	182860	97850	114800	110340	107750
MEAN	8344	5776	4032	8487	4632	7890	4476	5899	3262	3703	3559	3592
MAX	18700	14900	10700	19500	10400	51200	9540	13800	9140	5560	8670	12900
MIN	1500	771	856	1330	1190	2150	1720	1130	1490	1890	1830	1540
AC-FT	513100	343700	247900	521800	257200	485100	266400	362700	194100	227700	218900	213700

CAL YR 1976 TOTAL 2895237 MEAN 7910 MAX 24700 MIN 771 AC-FT 5743000
WTR YR 1977 TOTAL 1942187 MEAN 5321 MAX 51200 MIN 771 AC-FT 3852000

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 (Water years 1967-76), 1.5°C Feb. 8, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C May 31, July 5, Aug. 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)
OCT											
20...	1028	1028	--	--	--	--	--	--	--	--	--
20...	1028	1028	20000	258	7.8	14.0	7.6	76	--	1.1	822
27...	1028	1028	4820	--	--	14.0	--	--	--	--	--
NOV											
18...	1028	1028	2680	340	7.8	12.0	10.0	96	--	2.7	84
DEC											
16...	1028	1028	1130	308	8.1	5.0	10.6	85	--	--	82
16...	1028	1028	1010	--	--	7.5	--	--	--	--	--
JAN											
27...	1028	1028	4790	--	--	7.0	--	--	--	--	--
28...	1028	1028	8820	260	7.5	3.0	16.0	122	10	.7	84
FEB											
09...	1028	1028	5180	260	7.5	4.0	12.2	96	8	--	89
MAR											
03...	1028	1028	6850	--	--	7.0	--	--	--	--	--
09...	1028	1028	4080	250	7.5	11.0	10.4	97	--	1.0	<2
APR											
07...	1028	1028	3560	299	8.1	12.5	9.6	93	--	1.0	816
13...	1028	1028	1810	--	--	20.0	--	--	--	--	--
MAY											
04...	1028	1028	10600	258	8.0	15.0	10.0	98	8	1.2	170
25...	1028	1028	14500	--	--	11.0	--	--	--	--	--
JUN											
02...	1028	1028	1600	312	7.1	16.5	9.4	99	0	4.4	130
29...	1028	1028	2040	260	8.0	13.0	8.6	84	9	1.4	220
JUL											
07...	1028	1028	3750	--	--	18.0	--	--	--	--	--
28...	1028	1028	1460	275	8.2	15.0	8.9	91	--	1.0	93
AUG											
18...	1028	1028	1900	--	--	17.5	--	--	--	--	--
24...	1028	1028	1730	318	8.1	14.0	8.4	84	--	1.6	77
SEP											
14...	1028	1028	2000	--	7.5	11.5	8.8	83	--	3.4	240

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	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)
OCT											
20...	--	--	--	--	--	--	--	--	--	--	--
20...	140	130	6	36	9.4	2.4	4	.1	1.5	150	0
27...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	88	--	--	--	--	--	--	--	--	--	--
DEC											
16...	<2	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
28...	82	--	--	--	--	--	--	--	--	--	--
FEB											
09...	84	--	--	--	--	--	--	--	--	--	--
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
09...	86	--	--	--	--	--	--	--	--	--	--
APR											
07...	824	150	7	37	15	1.5	2	.1	1.2	180	0
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	90	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	240	--	--	--	--	--	--	--	--	--	--
29...	290	160	12	36	17	2.2	3	.1	1.4	180	0
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	52	--	--	--	--	--	--	--	--	--	--
SEP											
14...	81100	--	--	--	--	--	--	--	--	--	--

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)	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)
OCT											
20...	--	--	--	--	--	--	--	--	--	--	--
20...	123	3.8	5.1	3.4	.8	4.3	143	136	.19	7720	.19
27...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	.08
DEC											
16...	--	--	--	--	--	--	--	--	--	--	.02
16...	--	--	--	--	--	--	--	--	--	--	--
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	.12
FEB											
09...	--	--	--	--	--	--	--	--	--	--	.10
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	.16
APR											
07...	150	2.3	14	2.9	.1	4.4	161	165	.22	1550	.37
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	.07
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	--	--	--	--	--	--	--	--	--	--	.08
29...	150	2.9	8.4	3.3	.1	4.1	149	161	.20	821	.38
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	.11
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	.17
SEP											
14...	--	--	--	--	--	--	--	--	--	--	.23

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG) (00633)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) (00625)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG) (00626)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG) (00668)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)
OCT										
20...	--	--	--	--	--	--	--	--	--	--
20...	56	.21	3200	.40	1.8	.00	73	1	1	0
27...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	--	.30	--	.38	1.7	.02	--	--	--	--
DEC										
16...	--	.74	--	.76	3.4	.01	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JAN										
27...	--	--	--	--	--	--	--	--	--	--
28...	--	.09	--	.21	.93	.02	--	--	--	--
FEB										
09...	--	.28	--	.38	1.7	.02	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
09...	--	.47	--	.63	2.8	.03	--	--	--	--
APR										
07...	--	.25	--	.62	2.7	.01	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	--	.09	--	.16	.71	.01	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	.45	--	.53	2.3	.13	--	--	--	--
29...	--	.14	--	.52	2.3	.02	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
28...	--	.13	--	.24	1.1	.01	--	--	--	--
AUG										
18...	--	--	--	--	--	--	--	--	--	--
24...	--	.56	--	.73	3.2	.02	--	--	--	--
SEP										
14...	--	.00	--	.23	1.0	.01	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G) (01028)	TOTAL CHRO-MIUM (CR) (UG/L) (01034)	SUS-PENDED CHRO-MIUM (CR) (UG/L) (01031)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G) (01029)	TOTAL COBALT (CO) (UG/L) (01037)
OCT										
20...	--	--	--	--	--	--	--	--	--	--
20...	6	<10	<10	0	1	0	0	0	12	<50

DATE	SUS-PENDED COBALT (CO) (UG/L) (01036)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G) (01038)	TOTAL COPPER (CU) (UG/L) (01042)	SUS-PENDED COPPER (CU) (UG/L) (01041)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G) (01043)	TOTAL IRON (FE) (UG/L) (01045)	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL IRON IN BOTTOM MA-TERIAL (UG/G) (01170)	TOTAL LEAD (PB) (UG/L) (01051)
OCT											
20...	<50	0	15	<10	<9	1	10	150	20	9200	<100

DATE	SUS-PENDED LEAD (PB) (UG/L) (01050)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G) (01052)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	TOTAL MANGA-NESE IN BOTTOM MA-TERIAL (UG/G) (01053)	TOTAL MERCURY (HG) (UG/L) (71900)	SUS-PENDED MERCURY (HG) (UG/L) (71895)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G) (71921)
OCT											
20...	<100	0	65	90	90	0	1000	.0	.0	.0	.4

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL SELENIUM (SE) (UG/L) (01147)	SUSPENDED SELENIUM (SE) (UG/L) (01146)	DISSOLVED SELENIUM (SE) (UG/L) (01145)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G) (01148)	TOTAL ZINC (ZN) (UG/L) (01092)	SUSPENDED ZINC (ZN) (UG/L) (01091)	DISSOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G) (01093)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG) (00687)
OCT										
20...	1	0	1	0	10	0	10	200	1.5	19
JAN										
28...	--	--	--	--	--	--	--	--	2.4	--
APR										
07...	--	--	--	--	--	--	--	--	1.6	--
JUN										
29...	--	--	--	--	--	--	--	--	2.0	--
JUL										
28...	--	--	--	--	--	--	--	--	3.0	--

DATE	TOTAL PCB (UG/L) (39516)	PCB IN BOTTOM MATERIAL (UG/KG) (39519)	POLYCHLORINATED NAPHTHALENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MATERIAL (UG/KG) (39333)	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											
20...	.0	21	.00	.00	.0	.0	0	.00	.0	.00	3.6

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)	TOTAL HEPTACHLOR (UG/L) (39410)
OCT											
20...	.00	.0	.00	.0	.00	.5	.00	.0	.00	.0	.00

DATE	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 METHYL PARATHION (UG/L) (39600)	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG) (39601)	TOTAL METHYL TRITHION (UG/L) (39790)
OCT										
20...	.0	.00	.2	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG) (39791)	TOTAL PARATHION (UG/L) (39540)	PARATHION IN BOTTOM MATERIAL (UG/KG) (39541)	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)
OCT										
20...	.0	.00	.0	0	33	.00	.0	.00	.00	.00

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

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

PHYTOPLANKTON

DATE	OCT 20,76
TIME	1000
TOTAL CELLS/ML	880
DIVERSITY: DIVISION	0.7
.CLASS	0.7
..ORDER	0.8
...FAMILY	1.4
....GENUS	1.6

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....TETRAEDRON	120	13
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	29	3
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	610#	70
....COCCONEIS	29	3
...CYMBELLACEAE		
....CYMBELLA	29	3
...NAVICULACEAE		
....NAVICULA	29	3
...NITZSCHIACEAE		
....NITZSCHIA	29	3

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
OCT. 20	27	154	76.9	77.1	0.069	0.043	1117	POLYETHYLENE STRIP

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

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

BENTHIC INVERTEBRATES

DATE	OCT 20,76
TIME	1000
TOTAL COUNT	158
DIVERSITY: PHYLUM	0.1
.CLASS	0.4
..ORDER	0.8
...FAMILY	0.9
....GENUS	3.0
....GENUS-INSECTA	2.7

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..PLESIOPORA	
...NAIDIDAE	
....UNKNOWN GENUS	2
ARTHROPODA (ARTHROPODS)	
.ARACHNOIDEA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	2
.CRUSTACEA	
..AMPHIPODA	
...GAMMARIDAE	
....CRANGONYX	1
..ISOPODA	
...ASELLIDAE	
....LIRCEUS	4
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....CORYNONEURA	5
....CRICOTOPUS	32
....EUKIEFFERIELLA	41
....RHEOTANYTARSUS	29
....TANYTARSUS	20
....THIENEMANNIELLA	12
...SIMULIIDAE	
....SIMULIUM	2
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	1
...EPHEMERELLIDAE	
....EPHEMERELLA	1
...HEPTAGENIIDAE	
....STENONEMA	2
..PLECOPTERA	
...TAENIOPTERYGIDAE	
....TAENIOPTERYX	2
..TRICHOPTERA	
...PSYCHOMYIIDAE	
....PSYCHOMYIA	2

07060500 WHITE RIVER AT CALICO ROCK, AR--Continued

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

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	10.5	19.0	16.5	23.0	14.0	21.5	12.0	20.5	16.0	17.0	12.0
2	14.0	11.0	19.0	18.0	21.0	14.5	18.5	11.0	22.0	15.5	18.5	11.5
3	13.0	11.5	18.5	12.0	22.0	12.0	21.0	13.5	20.5	15.0	14.5	12.0
4	13.0	11.5	14.5	11.5	20.0	11.0	24.0	14.5	19.5	14.0	19.5	14.0
5	11.5	9.0	14.0	12.0	21.0	11.0	25.0	14.5	21.5	17.0	20.0	16.0
6	12.0	8.0	14.5	9.5	23.0	17.0	21.5	11.5	21.0	15.5	20.0	14.5
7	15.0	10.5	19.0	13.0	20.5	13.0	21.5	11.0	23.0	16.0	19.5	14.0
8	17.0	13.5	19.5	16.0	23.0	16.5	21.0	12.0	25.0	17.0	19.5	14.0
9	18.0	14.5	21.5	17.0	20.0	11.0	19.5	13.0	22.0	13.5	20.5	14.0
10	19.5	15.5	20.0	13.5	19.5	11.5	19.5	15.0	19.5	15.5	19.5	13.0
11	20.0	16.0	17.0	12.0	20.0	10.5	22.0	18.0	20.5	15.0	16.5	14.5
12	19.0	14.5	17.0	14.0	21.0	15.5	21.0	12.0	18.5	11.5	19.5	14.0
13	20.0	16.0	15.0	11.5	23.0	20.0	22.0	15.0	18.5	11.5	18.5	15.0
14	18.5	13.0	15.0	9.5	21.0	14.5	21.0	12.0	18.5	13.5	16.5	13.5
15	20.0	16.5	13.0	10.0	20.0	14.5	19.0	12.0	22.0	15.5	18.0	14.5
16	18.0	14.5	14.5	11.5	20.5	15.0	20.5	11.0	23.0	13.0	20.5	16.0
17	---	---	13.5	9.0	21.0	16.5	22.0	16.0	22.0	16.0	21.5	18.0
18	---	---	14.5	10.5	21.5	16.0	22.0	16.0	21.0	15.0	23.0	19.5
19	---	---	14.5	9.0	17.0	14.0	21.5	13.0	21.0	13.0	23.0	20.0
20	---	---	13.0	9.5	17.0	14.5	18.5	11.0	21.0	12.0	22.0	18.5
21	---	---	14.0	11.0	18.5	13.0	20.0	12.0	21.5	15.0	20.5	17.0
22	---	---	19.5	13.5	18.5	13.5	21.5	13.5	23.5	15.5	19.0	16.5
23	---	---	21.0	18.5	23.5	18.5	19.5	11.5	23.0	12.0	18.0	13.5
24	16.0	13.0	19.5	9.5	23.5	21.0	19.0	14.0	20.5	13.5	17.0	14.5
25	16.0	14.0	13.0	9.0	22.0	12.0	19.5	14.0	22.0	14.0	19.0	16.0
26	15.0	13.5	14.5	11.0	18.0	14.0	17.0	13.0	22.0	14.0	21.5	18.0
27	15.0	13.0	14.0	13.0	24.5	18.0	16.0	15.0	17.0	13.5	21.5	14.5
28	17.0	14.0	16.0	13.5	21.5	11.5	19.0	14.0	18.0	13.5	17.0	11.5
29	16.5	15.5	20.5	16.0	18.5	11.5	19.0	12.0	19.5	16.0	17.0	14.5
30	17.0	14.0	24.0	19.5	22.0	15.5	20.5	13.5	21.5	14.5	18.5	15.5
31	---	---	25.0	20.5	---	---	19.5	15.5	20.0	12.0	---	---
MONTH	20.0	8.0	25.0	9.0	24.5	10.5	25.0	11.0	25.0	11.5	23.0	11.5

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, Hydrologic Unit 11010004, 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 (Water years 1967-76), 1.0°C Feb. 9, 1971.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.0°C Aug. 8.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.0	15.5										
2	17.0	15.5										
3	16.5	15.5										
4	16.5	15.5										
5	16.0	15.0										
6	16.0	14.5										
7	16.0	14.0										
8	15.5	14.0										
9	15.0	11.5										
10	17.0	13.0										
11	18.0	13.5										
12	20.5	15.0										
13	16.5	15.5										
14	16.0	15.0										
15	17.0	15.0										
16	16.0	14.5										
17	16.0	13.0										
18	14.5	11.0										
19	14.0	13.5										
20	14.5	13.5										
21	15.0	14.0										
22	15.0	14.0										
23	15.0	15.0										
24	15.5	15.0										
25	15.0	14.0										
26	14.5	14.0										
27	14.5	13.0										
28	14.0	11.5										
29	13.5	12.0										
30	---	---										
31	---	---										
MONTH	20.5	11.0										

07060660 WHITE RIVER AT SYLAMORE, AR--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	23.0	19.5	26.5	20.5	22.0	19.0
2					---	---	23.0	19.0	27.0	20.0	22.0	18.0
3					---	---	27.0	21.0	26.5	21.0	19.5	16.0
4					---	---	28.5	21.5	26.5	20.5	24.0	15.5
5					---	---	29.5	23.0	28.0	20.5	24.0	19.5
6					---	---	25.0	19.5	27.0	21.5	23.5	19.5
7					---	---	25.5	20.0	28.5	20.5	24.0	19.5
8					---	---	24.5	20.0	30.0	23.0	25.5	19.5
9					---	---	24.5	20.0	25.5	21.0	25.5	19.5
10					---	---	25.5	19.5	25.0	21.5	24.0	19.5
11					---	---	27.5	20.0	27.0	20.0	19.5	18.0
12					---	---	24.5	21.0	23.5	19.0	24.5	16.5
13					---	---	28.5	21.0	21.0	18.0	22.0	19.0
14					---	---	25.5	20.5	25.0	19.0	19.0	17.0
15					---	---	24.5	20.5	26.0	20.0	19.0	17.0
16					---	---	24.5	20.0	26.5	21.5	25.0	17.0
17					---	---	28.0	20.0	25.0	21.0	26.0	19.5
18					---	---	28.5	21.5	26.5	20.0	28.0	21.0
19					---	---	24.5	20.5	21.5	18.5	26.5	21.5
20					---	---	21.5	18.5	24.0	19.0	26.5	20.0
21					---	---	21.5	18.0	25.5	21.0	23.5	20.0
22					---	---	24.0	19.5	28.5	21.0	22.0	19.0
23					---	---	23.5	20.0	24.0	20.0	23.5	19.0
24					29.5	23.0	25.5	20.0	24.5	20.0	21.0	18.5
25					25.0	16.5	26.5	19.5	25.5	19.5	23.5	18.5
26					22.0	15.5	21.0	17.0	28.0	21.0	26.0	19.5
27					27.0	19.0	19.5	18.0	23.0	18.0	---	---
28					24.0	14.5	24.0	17.0	20.5	17.0	---	---
29					23.5	14.5	25.0	19.5	23.0	19.0	---	---
30					29.0	19.0	26.0	19.5	25.0	20.5	---	---
31					---	---	27.0	20.5	24.5	20.0	---	---
MONTH					29.5	14.5	29.5	17.0	30.0	17.0	28.0	15.5

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, Hydrologic Unit 11010004, 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.--11 years, 50.0 ft^3/s (1.42 m^3/s), 11.69 in/yr (297 mm/yr), 36,220 acre-ft/yr (44.7 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, 8,990 ft^3/s (255 m^3/s) Mar. 27 at 2130 hours, gage height, 13.17 ft (4.014 m), no other peak above base of 2,800 ft^3/s (79 m^3/s); minimum, 3.8 ft^3/s (0.108 m^3/s) Oct. 1, 3, 4, 5, 13, 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	6.2	4.8	4.6	6.9	26	45	11	5.9	13	5.0	7.8
2	4.0	5.0	4.8	4.6	6.7	20	42	12	5.9	14	5.0	6.4
3	3.8	4.8	4.8	4.6	6.4	116	49	12	5.9	9.3	4.8	5.5
4	3.8	4.8	5.0	4.6	7.2	163	47	11	5.7	7.2	4.4	5.2
5	4.2	4.8	4.8	5.0	9.6	78	36	9.8	5.7	6.2	4.2	4.9
6	4.8	4.8	7.7	5.0	10	43	27	9.1	5.7	6.7	4.2	4.8
7	5.0	4.8	16	5.3	8.6	27	22	8.5	5.5	6.9	4.4	4.8
8	4.6	4.8	11	5.3	7.7	21	19	8.4	5.5	5.9	4.4	5.1
9	4.4	5.0	8.0	5.5	7.2	17	17	11	5.5	5.7	4.2	4.9
10	4.4	5.0	7.2	5.3	7.4	14	17	10	5.5	7.2	4.2	4.6
11	4.4	5.3	9.6	5.5	8.0	16	16	8.8	5.5	7.2	4.2	4.8
12	4.4	6.2	10	5.3	15	49	14	7.8	5.5	5.7	4.4	4.9
13	4.4	6.2	8.6	5.5	18	52	15	7.4	5.5	5.5	6.7	5.7
14	4.4	5.9	7.2	11	14	33	15	7.4	5.7	5.5	8.3	21
15	4.0	6.2	6.4	17	10	24	14	7.2	5.7	5.5	6.2	51
16	4.2	6.2	6.2	13	8.6	18	13	6.9	5.9	5.0	5.7	21
17	4.4	6.7	5.9	9.3	8.0	15	13	6.7	6.7	5.0	12	11
18	4.4	6.9	5.7	7.7	7.4	14	12	6.7	6.9	4.8	12	8.4
19	4.6	6.7	5.5	7.2	7.2	12	13	6.4	6.7	7.4	8.1	7.0
20	4.8	6.7	5.5	6.7	6.9	11	13	6.4	6.7	6.4	6.5	6.2
21	5.3	6.2	5.3	6.2	6.7	10	21	6.4	8.3	5.5	5.8	5.8
22	5.3	5.7	5.0	6.2	6.4	9.3	36	6.4	7.2	5.3	5.3	5.7
23	5.7	5.5	5.0	6.4	55	8.9	31	6.9	6.7	5.7	5.1	5.6
24	8.9	5.3	5.0	7.2	71	8.5	25	8.3	6.4	7.4	5.1	17
25	8.3	5.3	5.0	9.3	39	8.4	20	8.3	6.4	9.3	5.5	26
26	5.9	5.5	5.0	10	45	8.1	17	7.4	6.9	8.6	5.4	14
27	4.8	5.3	5.3	12	66	2010	15	6.9	7.7	7.7	5.2	24
28	4.2	5.0	5.3	12	39	2680	13	6.7	8.0	6.4	5.3	29
29	4.4	4.8	5.3	11	---	312	12	6.7	8.6	5.7	31	514
30	6.7	4.8	5.3	8.6	---	135	11	6.9	10	5.3	25	130
31	7.7	---	4.8	7.4	---	72	---	6.4	---	5.0	12	---
TOTAL	154.0	166.4	201.0	234.3	508.9	6031.2	660	251.8	193.8	212.0	229.6	966.1
MEAN	4.97	5.55	6.48	7.56	18.2	195	22.0	8.12	6.46	6.84	7.41	32.2
MAX	8.9	6.9	16	17	71	2680	49	12	10	14	31	514
MIN	3.8	4.8	4.8	4.6	6.4	8.1	11	6.4	5.5	4.8	4.2	4.6
CFSM	.09	.10	.11	.13	.31	3.36	.38	.14	.11	.12	.13	.55
IN.	.10	.11	.13	.15	.33	3.86	.42	.16	.12	.14	.15	.62
AC-FT	305	330	399	465	1010	11960	1310	499	384	421	455	1920

CAL YR 1976	TOTAL	5514.5	MEAN 15.1	MAX 252	MIN 3.0	CFSM .26	IN 3.53	AC-FT	10940
WTR YR 1977	TOTAL	9809.1	MEAN 26.9	MAX 2680	MIN 3.8	CFSM .46	IN 6.28	AC-FT	19460

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 1976 TO SEPTEMBER 1977

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)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
20...	1028	1028	--	--	--	--	--	--	--	--	--	--
20...	1028	1028	4.4	289	7.9	11.5	10.2	97	--	75	9	94
NOV												
18...	1028	1028	6.9	259	7.9	5.5	13.0	106	--	65	0	B10
DEC												
16...	1028	1028	5.7	285	7.9	3.0	11.2	86	--	B35	5	B4
17...	1028	1028	5.5	--	--	5.0	--	--	--	--	--	--
FEB												
09...	1028	1028	7.2	270	7.7	4.0	14.6	115	--	B42	0	<2
10...	1028	1028	7.2	--	--	5.0	--	--	--	--	--	--
MAR												
04...	1028	1028	170	--	--	10.0	--	--	--	--	--	--
09...	1028	1028	16	226	7.5	14.0	10.4	104	--	B48	0	<2
APR												
07...	1028	1028	22	234	8.0	15.0	10.2	104	--	<2	2	B4
14...	1028	1028	15	--	--	--	--	--	--	--	--	--
MAY												
04...	1028	1028	12	276	8.0	17.0	9.8	96	--	60	B48	90
25...	1028	1028	8.6	--	--	24.5	--	--	--	--	--	--
JUN												
02...	1028	1028	5.3	285	7.5	21.0	7.5	86	11	140	37	110
29...	1028	1028	7.2	306	8.0	22.5	8.4	99	--	740	B180	290
JUL												
08...	1028	1028	5.9	--	--	27.0	--	--	--	--	--	--
28...	1028	1028	7.7	270	8.1	21.0	7.5	86	--	B32	23	--
AUG												
18...	1028	1028	11	--	--	24.0	--	--	--	--	--	--
24...	1028	1028	4.6	273	8.0	22.0	7.0	82	--	160	13	94
SEP												
14...	1028	1028	6.9	278	7.9	18.0	7.8	85	--	200	88	320
28...	1028	1028	28	--	--	21.5	--	--	--	--	--	--

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												
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	150	3	49	7.8	1.7	2	.1	1.0	185	0	152	3.7
NOV												
18...	140	0	45	7.5	1.4	2	.1	.8	176	0	144	3.5
DEC												
16...	130	3	42	7.1	1.9	3	.1	.8	160	0	131	3.2
17...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
09...	130	0	43	6.3	1.2	2	.0	.7	164	0	135	5.2
10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
09...	120	8	38	5.1	1.0	2	.0	.6	132	0	108	6.7
APR												
07...	120	9	40	5.9	.9	2	.0	.8	140	0	110	2.2
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
04...	140	3	47	6.1	1.0	1	.0	.9	170	0	140	2.7
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	150	14	50	7.0	1.4	2	.1	.9	170	0	140	8.6
29...	140	7	45	6.4	1.3	2	.0	.9	160	0	130	2.6
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
28...	160	16	50	7.4	1.4	2	.0	.8	170	0	140	2.2
AUG												
18...	--	--	--	--	--	--	--	--	--	--	--	--
24...	140	0	46	6.9	1.4	2	.1	5.9	180	0	150	2.9
SEP												
14...	150	5	46	7.3	1.2	2	.0	.9	170	0	140	3.4
28...	--	--	--	--	--	--	--	--	--	--	--	--

B PLATE COUNT OUTSIDE IDEAL RANGE.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT											
20...	3.5	2.3	.0	6.8	167	163	.23	1.98	.02	.01	0
NOV											
18...	3.2	2.3	.1	6.9	164	154	.22	3.06	.02	.01	--
DEC											
16...	8.4	2.7	.1	6.6	166	148	.23	2.55	.01	.02	--
FEB											
09...	6.8	2.3	.2	5.8	150	147	.20	2.92	.02	.02	--
MAR											
09...	7.4	1.8	.1	5.5	120	125	.16	5.35	.06	.01	--
APR											
07...	10	1.7	.1	6.6	121	135	.16	7.19	.24	.00	0
MAY											
04...	11	1.9	.1	7.2	160	159	.22	5.18	.04	.00	--
JUN											
02...	9.5	2.2	.1	7.9	155	163	.21	2.22	.01	.01	--
29...	5.9	1.9	.1	8.9	136	149	.19	2.64	.05	.02	--
JUL											
28...	6.7	2.1	.6	15	149	168	.20	3.10	.04	.00	--
AUG											
24...	5.8	2.1	.0	8.7	152	166	.21	1.89	.03	.01	--
SEP											
14...	4.5	2.0	.1	8.7	148	155	.20	2.76	.04	.01	--

DATE	TOTAL BARIUM (BA) (UG/L) (01007)	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)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL SELE-NIUM (SE) (UG/L) (01147)	TOTAL SILVER (AG) (UG/L) (01077)
OCT										
20...	0	<10	0	<10	40	<100	0	.0	0	<10
NOV										
18...	--	--	--	--	--	--	--	--	--	--
DEC										
16...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
07...	0	<10	0	<10	60	<100	20	.0	0	<10
MAY										
04...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
24...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ZINC (ZN) (UG/L) (01092)	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)	CYANIDE (CN) (MG/L) (00720)
OCT										
20...	10	<2.3	<.4	1.8	<.4	1.4	<.4	.03	.20	--
NOV										
18...	--	--	--	--	--	--	--	--	--	--
DEC										
16...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
07...	10	--	--	--	--	--	--	--	--	.00
MAY										
04...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
24...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL PCB (UG/L) (39516)	PCB IN BOTTOM MA-TERIAL (UG/KG) (39519)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	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)
OCT										
20...	.0	0	.00	.00	.0	.0	0	.00	.0	.00
NOV										
18...	--	--	--	--	--	--	--	--	--	--
DEC										
16...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
24...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DDE IN BOTTOM MATERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MATERIAL (UG/KG) (39373)	TOTAL DIAZINON (UG/L) (39570)	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)
OCT 20...	.0	.00	.0	.00	.00	.0	.00	.0	.00
NOV 18...	--	--	--	--	--	--	--	--	--
DEC 16...	--	--	--	--	--	--	--	--	--
FEB 09...	--	--	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--	--	--
MAY 04...	--	--	--	--	--	--	--	--	--
JUN 02...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
JUL 28...	--	--	--	--	--	--	--	--	--
AUG 24...	--	--	--	--	--	--	--	--	--
SEP 14...	--	--	--	--	--	--	--	--	--

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)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL METHYL TRITHION (UG/L) (39790)
OCT 20...	.00	.0	.00	.0	.00	.0	.00	.00	.00
NOV 18...	--	--	--	--	--	--	--	--	--
DEC 16...	--	--	--	--	--	--	--	--	--
FEB 09...	--	--	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--	--	--
MAY 04...	--	--	--	--	--	--	--	--	--
JUN 02...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
JUL 28...	--	--	--	--	--	--	--	--	--
AUG 24...	--	--	--	--	--	--	--	--	--
SEP 14...	--	--	--	--	--	--	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PARA-THION (UG/L) (39540)	TOTAL TOX-APHENE (UG/L) (39400)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	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-PENDED SEDI-MENT DIS-CHARGE (T/DAY) (80155)
OCT									
20...	.00	0	0	.00	.00	.00	.00	3	.04
NOV									
18...	--	--	--	--	--	--	--	8	.15
DEC									
16...	--	--	--	--	--	--	--	4	.06
FEB									
09...	--	--	--	--	--	--	--	4	.08
MAR									
09...	--	--	--	--	--	--	--	1	.04
APR									
07...	--	--	--	--	--	--	--	0	.00
MAY									
04...	--	--	--	--	--	--	--	9	.29
JUN									
02...	--	--	--	--	--	--	--	8	.11
29...	--	--	--	--	--	--	--	5	.10
JUL									
28...	--	--	--	--	--	--	--	3	.06
AUG									
24...	--	--	--	--	--	--	--	3	.04
SEP									
14...	--	--	--	--	--	--	--	5	.09

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

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

PHYTOPLANKTON

DATE	OCT 20,76
TIME	1130
TOTAL CELLS/ML	33
DIVERSITY: DIVISION	0.5
.CLASS	1.3
..ORDER	1.8
...FAMILY	2.7
....GENUS	2.7

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	7#	20
..PENNALES		
...CYMBELLACEAE		
....EPITHEMIA	3	10
...GOMPHONEMATACEAE		
....GOMPHONEMA	3	10
...NAVICULACEAE		
....NAVICULA	7#	20
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...MALLOMONADACEAE		
....MALLOMONAS	3	10
...OCHROMONADACEAE		
....OCHROMONAS	7#	20
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	3	10

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
OCT. 20	27	1231	923	308	0.103	0.054	2990	POLYETHYLENE STRIP

BENTHIC INVERTEBRATES

DATE	OCT 20,76
TIME	1130
TOTAL COUNT	194
DIVERSITY: PHYLUM	0.3
.CLASS	0.3
..ORDER	0.5
...FAMILY	0.6
....GENUS	2.2
....GENUS-INSECTA	2.0

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CERATOPOGONIDAE	
....UNKNOWN GENUS	2
...CHIRONOMIDAE	
....CORYNONEURA	24
....MICROTENDIPES	82
....PENTANEURA	19
....PHAENOPSECTRA	49
..TRICHOPTERA	
...HYDROPTILIDAE	
....OXYETHIRA	2
...POLYCENTROPODIDAE	
....POLYCENTROPUS	5
MOLLUSCA (MOLLUSCS)	
.GASTROPODA	
..MESOGASTROPODA	
...PLEUROCERIDAE	
....GONIOBASIS	11

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, Hydrologic Unit 11010004, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
18...	9827	9827	277	8.0	14.0	--	9.8	1.7	<20	--	200
NOV											
22...	9827	9827	315	8.2	9.0	0	11.4	3.2	440	--	--
DEC											
28...	9827	9827	296	8.2	6.0	5	11.6	2.2	340	--	--
JAN											
26...	9827	9827	--	--	--	--	--	--	800	--	--
FEB											
22...	9827	9827	--	--	--	--	--	--	60	--	--
MAR											
22...	9827	9827	523	8.1	14.0	10	10.9	3.0	--	--	--
APR											
26...	9827	9827	240	7.9	18.0	5	8.8	1.7	--	60	--
MAY											
24...	9827	9827	279	8.1	22.0	5	9.3	2.2	420	32	--
JUN											
21...	9827	9827	292	8.2	26.0	5	9.0	2.9	--	--	--
JUL											
26...	9827	9827	293	8.2	25.0	5	8.5	2.1	--	--	--
AUG											
23...	9827	9827	271	8.3	26.0	5	8.8	3.9	14000	--	150
SEP											
27...	9827	9827	255	8.1	29.0	5	6.4	.4	26000	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
18...	69	--	50	--	17	2.4	1.0	160	131	3.0
NOV										
22...	--	--	--	--	--	--	--	--	--	4.0
DEC										
28...	--	--	--	--	--	--	--	--	--	6.0
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	--	--	--	--	--	--	--	--	6.0
APR										
26...	--	--	--	--	--	--	--	--	--	2.0
MAY										
24...	--	43	--	13	--	2.9	1.0	--	--	7.0
JUN										
21...	--	--	--	--	--	--	--	--	--	4.0
JUL										
26...	--	--	--	--	--	--	--	--	--	5.0
AUG										
23...	--	36	--	14	--	2.7	1.5	--	--	2.0
SEP										
27...	--	--	--	--	--	--	--	--	--	5.0

07061105 WHITE RIVER AT OIL TROUGH, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
18...	8.0	163	7	.25	--	--	.06	<3	<10	<3	<10	<20
NOV												
22...	4.5	181	8	<.10	--	--	.01	--	--	--	--	--
DEC												
28...	5.0	171	10	.19	--	--	.04	--	--	--	--	--
MAR												
22...	4.5	145	22	.13	<.10	<.10	.04	--	--	--	--	--
APR												
26...	4.0	153	26	.23	<.05	<.10	.05	--	--	--	--	--
MAY												
24...	5.5	163	17	.24	.01	--	.05	--	<10	--	30	500
JUN												
21...	4.5	161	14	.10	.01	.10	.03	--	--	--	--	--
JUL												
26...	4.5	--	8	.13	.00	.02	.02	--	--	--	--	--
AUG												
23...	4.5	169	25	.13	<.05	.07	.04	--	<10	<5	<10	520
SEP												
27...	5.0	158	28	.14	<.05	.09	.07	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
18...	<10	<27	<.5	<10	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
28...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	<10	73	--	20	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	<10	95	--	30	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010007, 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.--39 years, 1,789 ft^3/s (50.7 m^3/s), 1,296,000 acre-ft/yr (1,600 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, 28,000 ft^3/s (793 m^3/s) Mar. 31; maximum gage height, 15.53 ft (4.734 m) Mar. 31; minimum discharge, 351 ft^3/s (9.94 m^3/s) Aug. 12, gage height, 0.76 ft (0.232 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	405	464	404	405	485	692	20100	3910	726	987	401	1700
2	396	473	402	405	480	682	13100	3880	705	1110	392	1340
3	387	468	402	408	472	897	8780	3680	678	1160	413	963
4	381	453	402	423	453	1550	6590	3650	644	1190	415	785
5	377	428	404	425	457	1950	5270	3760	618	1160	391	758
6	377	410	413	415	491	2020	3940	3890	618	1080	377	797
7	405	414	423	408	501	2000	3250	3990	658	989	369	892
8	502	427	430	412	486	1800	2820	4020	680	860	365	887
9	580	425	440	415	468	1560	2510	4000	678	846	365	763
10	594	411	441	430	460	1280	2260	3880	659	1120	364	660
11	536	409	442	440	469	1040	2090	3690	569	1150	357	592
12	481	414	457	445	482	1320	2070	3260	500	1010	353	563
13	450	412	479	460	487	2230	2080	2810	475	941	357	576
14	417	406	496	490	493	2880	2140	2360	454	826	415	1110
15	398	403	507	520	497	3080	2220	2020	431	669	514	1350
16	385	404	505	520	503	3080	2650	1710	422	587	617	1470
17	379	405	483	505	513	2780	3000	1360	518	557	787	1330
18	373	405	457	480	517	2580	3260	1070	557	560	1040	1040
19	372	403	441	490	511	2550	3430	906	474	582	1020	886
20	373	405	430	495	503	2710	3600	817	438	591	957	894
21	374	405	431	495	513	2820	3790	762	428	550	940	911
22	377	401	436	495	522	2890	3960	739	422	497	953	889
23	377	398	433	490	522	2950	4280	1090	425	474	899	784
24	392	403	425	495	630	3010	5300	1840	424	458	867	828
25	396	402	420	500	650	2810	5740	1870	516	453	956	1430
26	398	405	415	500	648	2490	4830	1600	745	437	938	2110
27	390	408	411	501	641	2660	3810	1280	926	442	969	2720
28	381	413	410	495	650	4320	3330	1090	958	505	977	3420
29	388	415	409	490	---	14300	3320	940	987	496	1140	4280
30	419	409	404	490	---	21400	3720	815	992	441	1680	4650
31	443	---	403	485	---	25900	---	756	---	413	1830	---
TOTAL	12903	12498	13455	14427	14504	124231	137240	71445	18325	23141	22418	41378
MEAN	416	417	434	465	518	4007	4575	2305	611	746	723	1379
MAX	594	473	507	520	650	25900	20100	4020	992	1190	1830	4650
MIN	372	398	402	405	453	682	2070	739	422	413	353	563
AC-FT	25590	24790	26690	28620	28770	246400	272200	141700	36350	45900	44470	82070

CAL YR 1976 TOTAL 432330 MEAN 1181 MAX 4170 MIN 372 AC-FT 857500
WTR YR 1977 TOTAL 505965 MEAN 1386 MAX 25900 MIN 353 AC-FT 1004000

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
13...	9827	9827	--	--	--	--	--	--	--	85	--	--
14...	9827	9827	417	256	8.1	19.0	5	8.8	1.5	--	--	--
27...	1028	1028	403	--	--	11.5	--	--	--	--	--	--
NOV												
17...	9827	9827	405	290	8.1	9.0	0	11.1	2.3	280	--	--
DEC												
01...	1028	1028	398	--	--	4.0	--	--	--	--	--	--
08...	9827	9827	430	313	8.2	4.0	5	11.9	1.8	60	--	150
FEB												
08...	9827	9827	--	--	--	--	--	--	--	200	56	--
23...	1028	1028	519	--	--	9.0	--	--	--	--	--	--
MAR												
08...	9827	9827	1800	221	7.9	12.0	50	9.9	2.3	--	--	78
30...	1028	1028	18000	--	--	17.0	--	--	--	--	--	--
APR												
05...	1028	1028	5270	--	--	12.0	--	--	--	--	--	--
12...	9827	9827	2070	137	7.7	17.0	75	8.5	2.1	--	--	--
MAY												
18...	1028	1028	1180	--	--	23.0	--	--	--	--	--	--
24...	9827	9827	1820	129	7.4	22.0	100	6.0	3.8	10000	18000	--
JUN												
13...	9827	9827	477	249	8.1	26.0	10	6.8	1.4	--	--	--
28...	9827	9827	956	186	7.7	26.0	100	--	--	--	710	--
29...	1028	1028	998	--	--	25.5	--	--	--	--	--	--
JUL												
11...	9827	9827	1160	137	7.7	26.0	--	6.2	--	3700	--	--
AUG												
01...	9827	9827	403	271	8.2	27.0	10	7.7	2.4	--	--	--
03...	9827	9827	--	--	--	--	--	--	--	4500	--	--
11...	1028	1028	363	--	--	29.5	--	--	--	--	--	--
SEP												
19...	9827	9827	892	167	7.7	24.5	30	6.9	1.3	34000	--	69
20...	1028	1028	908	--	--	23.5	--	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	8.0
27...	--	--	--	--	--	--	--	--	--	--	--
NOV											
17...	--	--	--	--	--	--	--	--	--	--	9.0
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
08...	0	--	34	--	17	4.3	.9	190	0	156	6.0
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	0	--	11	--	12	3.2	1.9	120	0	98	7.0
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
12...	--	6.0	--	6.6	--	2.4	1.9	--	--	--	8.0
MAY											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	8.0
JUN											
13...	--	--	--	--	--	--	--	--	--	--	5.0
28...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	19
AUG											
01...	--	--	--	--	--	--	--	--	--	--	7.0
03...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
SEP											
19...	--	11	--	9.0	--	3.0	3.1	--	--	--	7.0
20...	--	--	--	--	--	--	--	--	--	--	--

07064000 BLACK RIVER NEAR CORNING, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
14...	7.0	175	38	.48	--	--	.10	--	--	--	--	--
NOV												
17...	4.5	170	9	<.10	--	--	.04	--	--	--	--	--
DEC												
08...	5.0	174	5	.62	--	--	.05	<3	10	<3	<10	110
MAR												
08...	5.0	171	64	.32	--	--	.17	<3	<10	<3	<10	3300
APR												
12...	3.5	128	--	--	--	<.10	.11	<10	<10	--	--	--
MAY												
24...	5.5	246	1200	--	.11	.62	.68	--	--	--	--	--
JUN												
13...	5.5	158	--	--	.05	.03	--	--	--	--	<10	--
28...	5.0	166	283	.77	.07	.31	--	--	--	--	<10	--
JUL												
11...	4.5	--	--	.32	.06	.32	--	--	--	--	--	--
AUG												
01...	5.5	180	42	.12	.01	.08	--	--	--	--	--	--
SEP												
19...	6.5	--	57	.19	<.05	--	.41	--	<10	<5	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
17...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
08...	<10	57	<.5	70	--	--	--	--	--	--	--	--
MAR												
08...	<10	160	--	20	--	--	--	--	--	--	--	--
APR												
12...	<10	190	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	170	--	<10	--	--	--	--	--	--	--	--
28...	--	--	--	20	--	--	--	--	--	--	--	--
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
19...	<10	220	--	<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, Hydrologic Unit 11010008, at bridge on U.S. Highway 67, 5.5 mi (8.8 km) northeast of Pocahontas.

DRAINAGE AREA.--2,606 mi² (6,750 km²).

PERIOD OF RECORD.--Water year 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
18...	9827	9827	1130	326	8.3	14.0	5	10.4	1.3	<20	--
NOV											
22...	9827	9827	1190	338	8.2	9.0	0	10.9	2.3	100	--
DEC											
28...	9827	9827	1170	343	8.3	6.0	5	11.4	2.4	20	--
JAN											
26...	9827	9827	1160	--	--	--	--	--	--	<5	--
FEB											
22...	9827	9827	1170	--	--	--	--	--	--	20	--
MAR											
22...	9827	9827	2410	254	8.0	13.0	15	9.7	1.8	--	--
APR											
26...	9827	9827	3110	189	7.9	16.0	30	8.9	.8	50	130
MAY											
24...	9827	9827	2160	270	8.0	23.0	5	7.6	2.3	440	190
JUN											
21...	9827	9827	1430	320	8.2	26.0	10	8.2	1.5	<4	--
JUL											
26...	9827	9827	1410	313	8.2	27.0	5	7.6	.8	260	--
AUG											
23...	9827	9827	2490	302	8.3	26.0	0	8.0	1.5	340	--
SEP											
27...	9827	9827	3840	208	7.8	28.0	30	7.0	2.0	5800	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
18...	230	50	--	50	--	26	2.1	.7	220	180	1.0
NOV											
22...	--	--	--	--	--	--	--	--	--	--	2.0
DEC											
28...	--	--	--	--	--	--	--	--	--	--	4.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	7.0
APR											
26...	--	--	--	--	--	--	--	--	--	--	1.0
MAY											
24...	--	--	63	--	19	--	2.4	.9	--	--	4.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	2.0
JUL											
26...	--	--	--	--	--	--	--	--	--	--	3.0
AUG											
23...	150	--	29	--	18	--	1.9	.8	--	--	1.0
SEP											
27...	--	--	--	--	--	--	--	--	--	--	5.0

07068850 CURRENT RIVER NEAR POCAHONTAS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
18...	4.5	187	14	.18	--	--	.01	<3	<10	<3	<10	180
NOV												
22...	4.0	193	14	<.10	--	--	.01	--	--	--	--	--
DEC												
28...	4.0	189	13	.11	--	--	.04	--	--	--	--	--
MAR												
22...	3.5	150	28	.29	<.10	<.10	.06	--	--	--	--	--
APR												
26...	3.0	126	25	.28	<.05	<.10	.03	--	--	--	--	--
MAY												
24...	4.0	158	14	.27	.01	--	.01	--	<10	--	<10	590
JUN												
21...	4.5	175	14	.17	.01	.10	.04	--	--	--	--	--
JUL												
26...	3.5	--	17	.16	.01	.01	.03	--	--	--	--	--
AUG												
23...	4.0	169	18	.21	.05	.10	.04	--	10	6	20	410
SEP												
27...	4.5	137	43	.19	<.05	--	.15	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
18...	10	54	<.5	<10	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	<10	71	--	<10	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	<10	43	--	50	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010010, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
18...	9827	9827	160	429	8.3	12.0	--	10.9	.8	<20	--
NOV											
22...	9827	9827	160	453	8.3	9.0	0	11.6	1.4	40	--
DEC											
28...	9827	9827	160	457	8.4	7.0	0	11.8	2.0	<20	--
JAN											
26...	9827	9827	230	--	--	--	--	--	--	<5	--
FEB											
22...	9827	9827	300	--	--	--	--	--	--	37	--
MAR											
22...	9827	9827	720	413	8.4	13.0	5	12.2	1.9	--	--
APR											
26...	9827	9827	--	389	8.2	14.0	5	9.5	1.9	320	170
MAY											
24...	9827	9827	600	415	8.2	20.0	5	8.4	1.7	230	48
JUN											
21...	9827	9827	--	415	8.3	23.0	5	9.8	2.4	66	--
JUL											
26...	9827	9827	395	421	8.3	23.0	5	8.4	1.3	1200	--
AUG											
23...	9827	9827	395	430	8.4	23.0	0	9.0	1.9	160	--
24...	9827	9827	--	--	--	--	--	--	--	--	--
SEP											
27...	9827	9827	1060	407	8.2	22.0	5	8.6	1.6	4600	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
18...	320	74	--	67	--	37	1.8	1.0	300	246	1.0
NOV											
22...	--	--	--	--	--	--	--	--	--	--	1.0
DEC											
28...	--	--	--	--	--	--	--	--	--	--	1.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	3.0
APR											
26...	--	--	--	--	--	--	--	--	--	--	1.0
MAY											
24...	--	--	52	--	31	--	1.9	1.0	--	--	3.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	1.0
JUL											
26...	--	--	--	--	--	--	--	--	--	--	2.0
AUG											
23...	240	--	49	--	28	--	1.8	1.4	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	1.0
SEP											
27...	--	--	--	--	--	--	--	--	--	--	4.0

07069266 SPRING RIVER NEAR HARDY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
18...	5.0	263	1	.60	--	--	<.01	<3	10	<3	<10	<20
NOV												
22...	3.5	264	10	.33	--	--	.02	--	--	--	--	--
DEC												
28...	4.0	257	13	.74	--	--	.03	--	--	--	--	--
MAR												
22...	4.5	233	12	.51	<.10	<.10	--	--	--	--	--	--
APR												
26...	3.5	227	30	.59	<.05	<.10	<.01	--	--	--	--	--
MAY												
24...	35	236	12	.56	.01	--	.01	--	<10	--	<10	500
JUN												
21...	3.0	242	7	.52	.01	.12	.04	--	--	--	--	--
JUL												
26...	4.0	--	7	.56	.01	.01	.02	--	--	--	--	--
AUG												
23...	3.5	242	9	--	--	--	--	--	<10	<5	<10	280
24...	--	--	--	.41	<.05	.13	.05	--	--	--	--	--
SEP												
27...	3.5	243	30	.64	<.05	.06	.08	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
18...	<10	7	<.5	<10	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	<10	44	--	<10	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	<10	12	--	60	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010010, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
18...	9827	9827	24	427	8.2	13.0	--	10.4	.9	60	--
NOV											
22...	9827	9827	41	443	8.2	2.0	0	11.5	1.5	40	--
DEC											
28...	9827	9827	30	446	8.3	4.0	0	11.6	1.1	--	--
JAN											
26...	9827	9827	41	--	--	--	--	--	--	15	--
FEB											
22...	9827	9827	47	--	--	--	--	--	--	10	--
MAR											
22...	9827	9827	80	351	8.4	13.0	5	12.3	1.6	--	--
APR											
26...	9827	9827	290	303	8.0	14.0	10	8.9	1.7	160	80
MAY											
24...	9827	9827	80	397	8.1	22.0	5	7.6	1.6	230	28
JUN											
21...	9827	9827	46	415	8.2	28.0	10	8.6	1.1	--	--
24...	9827	9827	--	--	--	--	--	--	--	66	--
JUL											
26...	9827	9827	422	395	8.3	25.0	10	6.9	.8	430	--
AUG											
23...	9827	9827	530	327	8.5	29.0	10	10.2	1.8	55	--
SEP											
27...	9827	9827	422	209	7.9	24.0	80	7.0	1.5	2900	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
18...	320	82	--	64	--	40	2.2	1.2	290	238	1.0
NOV											
22...	--	--	--	--	--	--	--	--	--	--	2.0
DEC											
28...	--	--	--	--	--	--	--	--	--	--	2.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	3.0
APR											
26...	--	--	--	--	--	--	--	--	--	--	1.0
MAY											
24...	--	--	50	--	29	--	2.2	1.0	--	--	3.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	1.0
24...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	4.0
AUG											
23...	170	--	34	--	20	--	3.1	2.5	--	--	1.0
SEP											
27...	--	--	--	--	--	--	--	--	--	--	4.0

07069295 SOUTH FORK SPRING RIVER AT SADDLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
18...	5.0	255	1	<.10	--	--	<.01	<3	10	<3	40	170
NOV												
22...	5.0	260	11	<.10	--	--	<.01	--	--	--	--	--
DEC												
28...	4.0	258	4	<.10	--	--	.01	--	--	--	--	--
MAR												
22...	5.0	198	8	.16	<.10	<.10	.02	--	--	--	--	--
APR												
26...	3.5	177	16	.24	<.05	<.10	.05	--	--	--	--	--
MAY												
24...	3.5	223	10	.20	.01	--	.02	--	<10	--	30	410
JUN												
21...	5.0	234	11	.08	.01	.12	.03	--	--	--	--	--
JUL												
26...	5.0	--	21	.09	.00	.04	.03	--	--	--	--	--
AUG												
23...	5.0	192	15	.09	<.05	.09	.05	--	<10	<5	70	480
SEP												
27...	4.0	158	44	.46	<.05	.10	.13	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
18...	30	130	<.5	30	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	30	120	--	1400	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	20	120	--	270	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010010, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DIS-CHARGE (CFS) (00060)	INSTANTANEOUS DIS-CHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
18...	9827	9827	--	358	438	8.4	14.0	5	10.9	2.1	80	--
NOV												
22...	9827	9827	--	370	455	8.3	8.0	0	11.4	1.7	20	--
DEC												
28...	9827	9827	--	362	467	8.4	5.0	5	12.1	2.3	<20	--
JAN												
26...	9827	9827	--	--	--	--	--	--	--	--	<5	--
FEB												
23...	9827	9827	--	--	--	--	--	--	--	--	15	--
MAR												
22...	9827	9827	--	853	408	8.3	14.0	5	10.7	2.9	--	--
APR												
26...	9827	9827	--	1800	358	8.2	16.0	10	9.3	1.8	210	180
MAY												
24...	9827	9827	--	802	416	8.3	23.0	5	7.5	3.0	270	130
JUN												
21...	9827	9827	475	--	428	8.3	27.0	5	8.4	1.9	<4	--
JUL												
26...	9827	9827	--	430	411	8.3	27.0	5	7.9	4.2	860	--
AUG												
23...	9827	9827	--	499	408	8.5	28.0	5	8.8	1.9	100	--
SEP												
27...	9827	9827	--	2410	250	7.9	24.0	90	6.9	2.7	2000	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
18...	330	92	--	64	--	42	2.5	1.1	290	238	1.0
NOV											
22...	--	--	--	--	--	--	--	--	--	--	2.0
DEC											
28...	--	--	--	--	--	--	--	--	--	--	2.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	3.0
APR											
26...	--	--	--	--	--	--	--	--	--	--	1.0
MAY											
24...	--	--	53	--	31	--	1.7	.9	--	--	3.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	1.0
JUL											
26...	--	--	--	--	--	--	--	--	--	--	3.0
AUG											
23...	220	--	45	--	26	--	1.7	1.7	--	--	1.0
SEP											
27...	--	--	--	--	--	--	--	--	--	--	5.0

07069370 SPRING RIVER AT RAVENDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
18...	5.0	256	--	.23	--	--	<.01	<3	<10	<3	<10	90
NOV												
22...	3.5	262	2	<.10	--	--	<.01	--	--	--	--	--
DEC												
28...	4.0	258	7	.15	--	--	<.01	--	--	--	--	--
MAR												
22...	4.5	228	10	.32	<.10	<.10	--	--	--	--	--	--
APR												
26...	3.5	209	30	.39	<.05	<.10	.05	--	--	--	--	--
MAY												
24...	4.0	241	11	.38	.01	--	.01	--	<10	--	<10	480
JUN												
21...	3.5	242	11	<.05	.01	.12	.04	--	--	--	--	--
JUL												
26...	4.5	--	14	.32	.01	.01	.04	--	--	--	--	--
AUG												
23...	3.5	237	17	.20	<.05	.10	.14	--	<10	<5	<10	320
SEP												
27...	3.5	185	92	.40	<.05	.10	.14	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
18...	20	230	<.5	<10	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	<10	37	--	<10	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	<10	31	--	20	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010010, 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 mk (13.2 km) upstream from Eleven Point River, and at mile 12.1 (19.5 km).

DRAINAGE AREA.--1,183 mi² (3,064 km²).

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.--41 years, 1,367 ft³/s (38.7 m³/s), 15.98 in/yr (406 mm/yr), 990,400 acre-ft/yr (1,220 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 82,700 ft³/s (2,340 m³/s) Mar. 28, 1977, gage height, 28.78 ft (8.772 m), minimum daily, 215 ft³/s (6.09 m³/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 ft³/s (3,540 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 9,000 ft³/s (260 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 12	0700	15,700	445	18.59	5.666
Mar. 28	0900	*82,700	2,340	28.78	8.772

Minimum discharge, 339 ft³/s (9.60 m³/s) Oct. 29, 30, gage height, 2.49 ft (0.759 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381	393	360	351	373	688	3280	1500	592	544	383	481
2	380	385	360	351	373	636	3040	1360	577	525	376	451
3	376	380	361	353	377	1410	2850	1260	563	498	372	428
4	374	380	362	355	395	2980	2530	1200	552	480	370	416
5	383	380	360	355	428	1890	2230	1140	544	464	366	475
6	407	380	385	358	447	1350	1990	1080	534	454	366	535
7	386	385	465	359	446	1110	1840	1030	517	445	362	498
8	381	380	448	351	433	971	1700	993	500	434	356	474
9	379	375	411	372	423	872	1620	1190	490	472	393	463
10	378	380	409	385	417	800	1540	1030	485	747	395	491
11	375	385	454	365	417	1770	1470	960	480	510	374	444
12	373	380	443	360	466	10700	1400	912	475	510	380	442
13	372	375	426	400	494	3040	1340	871	475	479	771	550
14	369	375	414	410	483	1980	1300	846	490	458	811	603
15	367	375	412	395	468	1580	1250	822	485	441	600	725
16	366	375	409	375	481	1330	1210	793	475	434	540	750
17	360	375	405	365	485	1180	1170	761	475	420	1020	694
18	358	380	400	360	476	1140	1130	739	470	409	1070	602
19	367	383	398	360	464	1060	1120	721	470	401	831	554
20	385	391	392	360	421	973	1110	708	470	407	667	515
21	373	380	383	360	400	910	1210	689	475	406	585	492
22	370	370	371	360	399	871	1610	678	470	439	539	485
23	381	368	367	365	454	805	4740	785	460	430	504	475
24	436	369	364	370	704	765	2910	777	460	463	482	1770
25	416	364	368	370	760	734	2090	691	460	455	460	5400
26	400	361	365	370	667	707	1780	662	475	437	445	5810
27	380	362	362	376	694	5170	1600	644	470	434	432	2520
28	375	360	362	391	744	60200	1480	629	470	419	423	1660
29	363	360	358	385	---	25400	1390	618	490	412	860	2530
30	403	360	355	381	---	6640	1360	607	510	403	786	3300
31	410	---	352	378	---	4050	---	610	---	393	542	---
TOTAL	11824	11256	12081	11466	13589	143712	55290	27306	14859	14223	16861	35033
MEAN	381	375	390	370	485	4636	1843	881	495	459	544	1168
MAX	436	393	465	410	760	60200	4740	1500	592	747	1070	5810
MIN	358	360	352	351	373	636	1110	607	460	393	356	416
CFSM	.32	.32	.33	.31	.41	3.92	1.56	.75	.42	.39	.46	.99
IN.	.37	.35	.38	.36	.43	4.52	1.74	.86	.47	.45	.53	1.10
AC-FT	23450	22330	23960	22740	26950	285100	109700	54160	29470	28210	33440	69490

CAL YR 1976 TOTAL 302788 MEAN 827 MAX 5500 MIN 352 CFSM .70 IN 9.52 AC-FT 600600
WTR YR 1977 TOTAL 367500 MEAN 1007 MAX 60200 MIN 351 CFSM .85 IN 11.56 AC-FT 728900

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, Hydrologic Unit 11010010, 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.--46 years, 1,123 ft^3/s (31.8 m^3/s), 13.58 in/yr (345 mm/yr), 813,600 acre-ft/yr (1,000 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)
Mar. 12	0730	9,080	257	13.24	4.036
Mar. 28	1215	*32,300	915	20.18	6.151

Minimum discharge, 389 ft^3/s (11.0 m^3/s) Jan. 31, Feb. 1, 2, 3, gage height, 2.74 ft (0.835 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	505	487	439	411	390	488	2790	1010	613	700	430	586
2	503	481	438	409	390	473	2540	1010	602	615	425	560
3	499	479	436	409	398	687	2310	967	596	596	425	542
4	498	474	434	414	412	1030	2110	942	585	575	424	529
5	512	473	434	415	420	797	1950	917	580	555	419	521
6	520	473	451	417	416	690	1800	893	574	539	417	557
7	501	473	462	414	410	626	1680	874	563	527	414	612
8	496	465	444	409	405	588	1580	850	558	516	414	618
9	494	463	439	425	404	561	1490	832	552	563	415	593
10	492	464	441	423	404	542	1420	814	547	576	425	573
11	489	474	456	413	413	1060	1360	790	541	510	416	555
12	489	467	443	454	435	6690	1300	778	536	511	890	548
13	485	458	439	415	438	2330	1250	760	552	499	1250	619
14	482	462	434	430	437	1510	1210	748	541	488	739	563
15	483	463	433	416	427	1230	1180	742	541	477	757	562
16	482	458	432	407	418	1070	1140	730	536	469	601	555
17	476	456	429	400	414	961	1100	718	531	464	723	557
18	473	456	428	399	412	944	1070	700	525	459	917	550
19	482	455	428	405	407	872	1060	700	520	456	923	546
20	492	454	426	399	402	827	1070	694	525	472	852	537
21	480	452	419	397	399	789	1170	682	520	486	778	536
22	478	448	419	394	401	754	1280	671	510	540	713	538
23	487	445	419	400	433	718	1340	826	505	570	664	543
24	504	444	419	400	524	692	1470	724	499	489	677	712
25	491	447	423	398	502	673	1350	671	499	489	620	1900
26	481	460	421	396	488	657	1250	659	499	465	590	903
27	468	456	419	400	502	3510	1180	653	505	454	574	795
28	470	445	419	401	501	27800	1130	641	531	449	558	835
29	470	441	418	396	---	17300	1080	636	574	444	805	980
30	515	438	415	394	---	7190	1050	630	583	442	828	968
31	501	---	414	392	---	3500	---	630	---	439	624	---
TOTAL	15198	13811	13371	12652	12002	87559	43710	23892	16343	15834	19707	19993
MEAN	490	460	431	408	429	2824	1457	771	545	511	636	666
MAX	520	487	462	454	524	27800	2790	1010	613	700	1250	1900
MIN	468	438	414	392	390	473	1050	630	499	439	414	521
CFSM	.43	.41	.38	.36	.38	2.49	1.29	.68	.48	.45	.56	.59
IN.	.50	.45	.44	.42	.39	2.87	1.43	.78	.54	.52	.65	.66
AC-FT	30150	27390	26520	25100	23810	173700	86700	47390	32420	31410	39090	39660

CAL YR 1976 TOTAL 318539 MEAN 870 MAX 6990 MIN 414 CFSM .77 IN 10.45 AC-FT 631800
WTR YR 1977 TOTAL 294072 MEAN 806 MAX 27800 MIN 390 CFSM .71 IN 9.65 AC-FT 583300

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, Hydrologic Unit 11010011, at bridge on U.S. Highway 62, 6.0 mi (10.0 km) west of Pocahontas.

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

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
18...	9827	9827	497	397	4.0	13.0	--	10.7	1.5	20	--
NOV											
22...	9827	9827	470	402	8.2	8.0	0	11.2	1.6	40	--
DEC											
28...	9827	9827	440	405	8.3	6.0	0	11.7	2.0	<20	--
MAR											
22...	9827	9827	792	340	8.1	14.0	5	10.2	2.5	--	--
APR											
26...	9827	9827	1310	295	8.2	15.0	5	9.7	1.3	150	28
MAY											
24...	9827	9827	760	326	8.1	21.0	5	8.3	3.2	470	2400
JUN											
21...	9827	9827	546	368	8.2	25.0	5	8.5	4.5	<4	--
JUL											
26...	9827	9827	488	362	8.3	25.0	5	7.9	1.7	1100	--
AUG											
23...	9827	9827	697	364	8.3	25.0	0	8.8	2.3	120	--
SEP											
27...	9827	9827	835	344	8.1	23.0	5	7.8	1.3	5600	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
18...	280	67	--	58	--	33	1.4	.8	260	213	1.0
NOV											
22...	--	--	--	--	--	--	--	--	--	--	1.0
DEC											
28...	--	--	--	--	--	--	--	--	--	--	3.0
MAR											
22...	--	--	--	--	--	--	--	--	--	--	3.0
APR											
26...	--	--	--	--	--	--	--	--	--	--	1.0
MAY											
24...	--	--	41	--	24	--	1.6	.9	--	--	3.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	1.0
JUL											
26...	--	--	--	--	--	--	--	--	--	--	2.0
AUG											
23...	190	--	38	--	22	--	1.6	1.3	--	--	1.0
SEP											
27...	--	--	--	--	--	--	--	--	--	--	2.0

07072100 ELEVEN POINT RIVER NEAR POCAHONTAS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
18...	5.0	219	13	.36	--	--	<.01	<3	<10	<3	<10	30
NOV												
22...	4.0	225	0	.20	--	--	<.01	--	--	--	--	--
DEC												
28...	3.5	221	6	.34	--	--	.01	--	--	--	--	--
MAR												
22...	3.0	191	18	.45	<.10	<.10	.02	--	--	--	--	--
APR												
26...	3.5	171	34	.43	<.05	<.10	.02	--	--	--	--	--
MAY												
24...	3.5	188	15	.42	.01	--	.01	--	<10	--	<10	590
JUN												
21...	3.5	210	8	.39	.01	.12	.03	--	--	--	--	--
JUL												
26...	3.5	--	18	.38	.01	.01	.02	--	--	--	--	--
AUG												
23...	3.5	199	22	.31	<.05	.09	.03	--	<10	<5	<10	370
SEP												
27...	3.5	201	36	.40	<.05	.06	.07	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
18...	<10	31	<.5	<10	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	<10	46	--	<10	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	<10	39	--	<10	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010009, 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 mi^2 (19,090 km^2).

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 hm^3).

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

AVERAGE DISCHARGE.--40 years, 8,395 ft^3/s (238 m^3/s), 6,082,000 acre-ft/yr (7,500 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 109,000 ft^3/s (3,090 m^3/s) Mar. 29, 1977; maximum gage height, 29.24 ft (8.912 m) Apr. 24, 1973; minimum daily discharge, 1,730 ft^3/s (49.1 m^3/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 ft^3/s (4,530 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 109,000 ft^3/s (3,090 m^3/s) Mar. 29, gage height, 38.10 ft (8.565 m); minimum observed, 2,530 ft^3/s (71.6 m^3/s) Aug. 6-10, 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2830	2710	2650	2650	2620	3840	63400	10600	4530	4550	2740	5360
2	2830	2710	2650	2630	2630	3850	65300	10300	4340	4700	2700	5260
3	2790	2710	2650	2600	2640	4730	59100	10200	4170	4580	2660	5110
4	2720	2710	2650	2600	2660	9060	50200	9730	4010	4580	2630	4780
5	2740	2710	2650	2600	2740	8810	41900	8880	3840	4520	2610	4610
6	2820	2700	2650	2600	2870	7520	34800	8610	3570	4310	2560	4870
7	2800	2660	2740	2630	2890	6870	30200	8390	3470	4250	2530	4610
8	2770	2650	2770	2650	2850	6470	27100	8000	3380	4040	2530	4850
9	2770	2650	2770	2650	2860	5920	23900	7810	3300	3730	2530	5020
10	2770	2650	2770	2650	2880	5540	21200	7800	3220	3960	2550	4950
11	2770	2650	2830	2750	2900	5900	19100	7800	3170	3990	2580	4660
12	2770	2650	2890	2820	2960	20900	16800	7710	3140	3760	2580	4370
13	2770	2650	2840	3070	3050	16100	15000	7360	3140	3680	3020	4100
14	2740	2650	2800	3050	3090	14700	13900	7150	3140	3600	4310	5100
15	2710	2650	2770	2930	3110	13600	12400	7040	3100	3520	3540	5940
16	2710	2650	2770	2970	3110	12500	11200	6910	3070	3400	4750	6230
17	2710	2650	2770	3270	3110	11100	10100	6830	3040	3250	4780	6140
18	2710	2650	2770	3600	3110	10100	8890	6660	2960	3110	5070	5870
19	2700	2650	2770	3510	3090	9240	8440	6540	2930	3000	6230	5580
20	2660	2650	2760	3560	3040	8520	7960	6340	2930	2880	7060	5240
21	2650	2650	2710	3760	3030	7940	7830	6140	2870	2870	6650	5070
22	2650	2650	2710	3580	2920	7640	8770	5850	2870	2870	5920	4810
23	2660	2650	2710	3250	3120	7290	12700	5490	2870	3090	5340	4620
24	2740	2650	2680	3080	3480	7010	12600	5600	2870	3360	4780	5960
25	2830	2650	2650	2810	3710	6800	11900	5390	2910	3180	4670	10800
26	2800	2650	2650	2690	3710	6560	12500	5140	2960	3000	4550	15700
27	2770	2650	2650	2690	3680	11600	12100	5080	3170	2870	4480	13000
28	2740	2650	2650	2690	3720	60000	11600	4950	3670	2860	4310	10900
29	2710	2650	2650	2690	---	91700	11200	4980	4390	2780	4690	12500
30	2710	2650	2650	2690	---	62400	10800	4810	4440	2750	6180	13200
31	2710	---	2650	2690	---	53100	---	4670	---	2750	5720	---
TOTAL	85060	79860	84280	90410	85580	507310	652890	218760	101470	109790	127250	199210
MEAN	2744	2662	2719	2916	3056	16360	21760	7057	3382	3542	4105	6640
MAX	2830	2710	2890	3760	3720	91700	65300	10600	4530	4700	7060	15700
MIN	2650	2650	2650	2600	2620	3840	7830	4670	2870	2750	2530	4100
AC-FT	168700	158400	167200	179300	169700	1006000	1295000	433900	201300	217800	252400	395100

CAL YR 1976 TOTAL 2208380 MEAN 6034 MAX 21200 MIN 2650 AC-FT 4380000
WTR YR 1977 TOTAL 2341870 MEAN 6416 MAX 91700 MIN 2530 AC-FT 4645000

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 1976 TO SEPTEMBER 1977

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)	PERCENT SATURATION (00301)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L) (00335)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
14...	1028	1028	2740	355	7.9	16.0	9.9	103	--	3.0	B8	B23
NOV												
10...	1028	1028	--	--	--	--	--	--	--	--	--	--
10...	1028	1028	2650	372	8.2	12.0	11.3	109	--	1.4	230	67
DEC												
15...	1028	1028	2770	364	8.1	6.0	12.4	103	--	1.1	73	B48
JAN												
17...	1028	1028	3270	335	8.2	.0	--	--	--	--	--	--
FEB												
16...	1028	1028	2930	380	8.0	6.0	10.2	84	--	1.5	B7	B4
MAR												
16...	1028	1028	12500	249	7.5	13.0	9.3	91	20	1.3	B110	B71
APR												
13...	1028	1028	15000	184	7.4	19.0	--	--	--	2.0	B120	240
MAY												
10...	1028	1028	7800	248	7.7	20.5	7.5	85	9	1.1	B22	B76
JUN												
08...	1028	1028	3380	334	7.4	24.0	7.5	91	--	2.5	<11	B40
AUG												
02...	1028	1028	2610	334	8.1	26.0	6.8	85	--	2.6	B44	B24
29...	1028	1028	4690	304	8.1	26.0	7.7	96	5	2.0	1100	B4800

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												
14...	190	1	41	22	2.4	3	.1	1.0	234	0	192	4.7

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)	TOTAL NITROGEN (NO3) (MG/L) (71887)
OCT												
14...	4.6	3.1	.1	7.7	191	197	.26	1410	.18	.16	.34	1.5
NOV												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	.00	.13	.13	.58
DEC												
15...	--	--	--	--	--	--	--	--	.09	.32	.41	1.8
JAN												
17...	--	--	--	--	--	--	--	--	.22	.05	.27	1.2
FEB												
16...	--	--	--	--	--	--	--	--	.09	.05	.14	.62
MAR												
16...	--	--	--	--	--	--	--	--	.28	.35	.63	2.8
APR												
13...	--	--	--	--	--	--	--	--	.22	.55	.77	3.4
MAY												
10...	--	--	--	--	--	--	--	--	.19	.15	.34	1.5
JUN												
08...	--	--	--	--	--	--	--	--	.20	.25	.45	2.0
AUG												
02...	--	--	--	--	--	--	--	--	.12	.15	.27	1.2
29...	--	--	--	--	--	--	--	--	.14	.33	.47	2.1

B PLATE COUNT OUTSIDE IDEAL RANGE.

07072500 BLACK RIVER AT BLACK ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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											
14...	.04	1	1	0	<10	<10	0	0	0	0	<50
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	.01	--	--	--	--	--	--	--	--	--	--
DEC											
15...	.02	--	--	--	--	--	--	--	--	--	--
JAN											
17...	.01	--	--	--	--	--	--	--	--	--	--
FEB											
16...	.02	--	--	--	--	--	--	--	--	--	--
MAR											
16...	.10	--	--	--	--	--	--	--	--	--	--
APR											
13...	.11	--	--	--	--	--	--	--	--	--	--
MAY											
10...	.08	--	--	--	--	--	--	--	--	--	--
JUN											
08...	.08	--	--	--	--	--	--	--	--	--	--
AUG											
02...	.04	--	--	--	--	--	--	--	--	--	--
29...	.09	--	--	--	--	--	--	--	--	--	--

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)
OCT											
14...	<48	2	<10	<7	3	440	10	<100	<100	0	60
APR											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--

DATE	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)	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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT										
14...	50	10	.0	0	0	0	10	0	10	1.1
APR										
13...	--	--	--	--	--	--	--	--	--	5.6
AUG										
02...	--	--	--	--	--	--	--	--	--	2.6

07072500 BLACK RIVER AT BLACK ROCK, AR--Continued

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

PHYTOPLANKTON

DATE	OCT 14,76
TIME	0945
TOTAL CELLS/ML	15000
DIVERSITY: DIVISION	0.3
.CLASS	0.3
..ORDER	0.4
...FAMILY	0.4
....GENUS	0.4

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	170	1
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	170	1
...NAVICULACEAE		
....NAVICULA	170	1
...NITZSCHIACEAE		
....NITZSCHIA	350	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROCCOCCALES		
...CHROCCOCCACEAE		
....ANACYSTIS	14000#	94

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
NOV. 10	27	127	113	14	41.5	4.38	360	POLYETHYLENE STRIP

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, Hydrologic Unit 11010012, 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.--38 years, 209 ft^3/s (5.92 m^3/s), 13.08 in/yr (332 mm/yr), 151,400 acre-ft/yr (187 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, 24,000 ft^3/s (680 m^3/s) Mar. 28 at 1215 hours, gage height, 25.38 ft (7.736 m), no other peak above base of 4,000 ft^3/s (110 m^3/s); minimum, 8.1 ft^3/s (0.23 m^3/s) Aug. 7, gage height, 3.28 ft (1.000 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	15	15	35	138	490	158	36	19	11	33
2	13	14	17	15	34	118	412	144	30	19	11	26
3	13	14	19	15	25	424	514	134	28	18	11	21
4	13	15	16	14	25	1100	341	120	26	16	10	20
5	15	16	14	14	44	394	285	101	24	16	10	19
6	16	16	17	14	69	251	231	83	23	15	9.3	54
7	14	14	19	14	54	199	209	70	21	15	8.7	77
8	13	14	18	14	46	167	185	64	20	14	9.3	34
9	14	14	17	14	38	149	168	62	19	14	9.6	26
10	14	14	19	14	38	131	156	67	19	17	10	22
11	14	16	29	15	40	148	143	59	18	15	13	22
12	14	18	25	15	48	989	132	54	18	14	10	24
13	14	18	22	19	66	441	123	48	19	15	11	34
14	14	19	21	24	70	273	114	46	19	14	12	32
15	14	19	20	27	60	218	95	44	19	13	11	39
16	14	19	20	26	53	180	81	41	19	13	11	38
17	15	19	19	28	48	156	75	38	19	13	22	48
18	16	19	19	28	44	149	73	37	19	11	27	34
19	24	20	18	28	40	153	64	36	19	9.9	30	27
20	23	20	17	28	36	131	66	34	19	12	22	23
21	21	19	17	28	33	123	183	32	19	14	18	21
22	13	18	17	27	31	122	335	31	18	9.9	20	22
23	15	16	16	26	35	111	541	68	18	9.0	19	21
24	26	16	16	25	224	92	373	53	16	21	19	99
25	24	17	16	19	149	78	243	41	17	16	12	333
26	21	18	16	20	118	67	186	36	16	15	11	241
27	14	16	16	26	222	2060	166	32	16	14	9.6	117
28	18	16	16	33	178	18200	140	31	17	14	13	81
29	14	16	15	34	---	4170	125	29	20	14	149	669
30	20	16	16	35	---	1030	117	29	20	13	71	340
31	18	---	16	35	---	665	---	32	---	12	53	---
TOTAL	505	502	558	689	1903	32627	6366	1854	611	444.8	663.5	2597
MEAN	16.3	16.7	18.0	22.2	68.0	1052	212	59.8	20.4	14.3	21.4	86.6
MAX	26	20	29	35	224	18200	541	158	36	21	149	669
MIN	13	14	14	14	25	67	64	29	16	9.0	8.7	19
AC-FT	1000	996	1110	1370	3770	64720	12630	3680	1210	882	1320	5150

CAL YR 1976 TOTAL 34233.0 MEAN 93.5 MAX 1490 MIN 11 AC-FT 67900
WTR YR 1977 TOTAL 49320.3 MEAN 135 MAX 18200 MIN 8.7 AC-FT 97830

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, Hydrologic Unit 11010012, 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.--38 years, 91.0 ft^3/s (2.58 m^3/s), 12.46 in/yr (316 mm/yr), 65,930 acre-ft/yr (81.3 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, 9,800 ft^3/s (278 m^3/s) Mar. 28 at 1200 hours, gage height, 18.85 ft (5.745 m), no other peak above base of 2,000 ft^3/s (57 m^3/s); minimum, 2.5 ft^3/s (0.071 m^3/s) Oct. 18, Aug. 27, 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	7.1	6.1	6.6	21	34	210	37	12	8.8	2.9	7.3
2	3.5	6.6	6.0	6.8	21	32	193	47	10	8.7	2.9	6.3
3	3.8	6.0	5.9	7.2	22	181	157	49	10	7.8	4.2	5.8
4	2.9	7.1	5.7	7.6	27	314	145	39	9.7	7.2	25	5.3
5	3.7	5.7	5.5	7.9	60	145	139	35	9.7	6.9	7.3	5.0
6	4.5	6.0	6.4	8.4	63	122	132	32	9.7	6.5	4.1	6.5
7	7.7	5.7	7.9	8.7	61	84	107	29	8.7	7.2	3.3	8.1
8	3.0	5.0	7.4	8.1	41	74	86	28	8.4	5.1	3.5	5.4
9	3.0	5.1	6.9	6.9	34	64	80	49	8.3	5.6	3.2	5.1
10	3.6	5.4	8.9	8.6	35	57	75	32	8.0	8.2	3.9	4.9
11	3.7	6.0	13	9.5	20	70	69	26	8.1	7.6	11	5.3
12	3.4	6.5	13	7.9	23	304	63	24	7.5	6.6	5.2	7.8
13	5.3	6.5	12	8.6	27	156	59	23	8.6	6.1	4.0	16
14	4.1	6.7	10	15	25	138	55	21	8.2	5.9	8.2	17
15	3.9	6.9	9.3	16	23	112	52	20	7.8	5.2	10	15
16	3.9	6.9	9.1	17	21	82	48	18	7.9	5.0	5.9	11
17	3.5	6.6	8.6	14	20	75	45	17	8.6	4.4	6.3	9.4
18	2.8	6.4	8.2	14	19	74	43	15	8.6	4.3	7.5	8.8
19	5.2	6.3	8.2	13	19	67	42	14	8.2	4.4	5.1	9.4
20	5.2	6.2	7.7	13	17	60	41	13	8.5	4.6	4.4	8.8
21	5.7	6.2	6.7	13	17	54	74	13	8.6	5.8	4.2	7.5
22	4.8	5.8	8.0	13	17	52	78	12	8.1	5.1	3.5	7.1
23	5.2	5.6	7.6	13	21	47	63	26	7.2	36	3.5	7.5
24	8.8	5.8	7.5	14	39	44	101	22	6.8	5.9	3.2	97
25	8.6	5.9	7.7	16	30	42	64	13	6.7	3.0	3.3	60
26	7.7	6.2	7.6	16	29	39	55	12	7.2	3.8	2.8	23
27	6.4	8.3	7.3	19	35	950	49	11	8.6	3.7	2.7	19
28	5.0	8.2	7.2	25	37	6820	45	10	7.5	3.8	3.5	17
29	4.9	6.9	7.2	25	---	868	42	9.6	9.2	3.7	142	630
30	8.1	6.3	7.1	26	---	415	40	9.3	9.3	3.5	46	137
31	8.9	---	7.2	21	---	262	---	12	---	3.5	9.8	---
TOTAL	154.8	189.9	246.9	405.8	824	11838	2452	717.9	255.7	203.9	352.4	1173.3
MEAN	4.99	6.33	7.96	13.1	29.4	382	81.7	23.2	8.52	6.58	11.4	39.1
MAX	8.9	8.3	13	26	63	6820	210	49	12	36	142	630
MIN	2.8	5.0	5.5	6.6	17	32	40	9.3	6.7	3.0	2.7	4.9
AC-FT	307	377	490	805	1630	23480	4860	1420	507	404	699	2330

CAL YR 1976	TOTAL	16700.6	MEAN 45.6	MAX 726	MIN 2.8	AC-FT	33130	
WTR YR 1977	TOTAL	18814.6	MEAN 51.5	MAX 6820	MIN 2.7	AC-FT	37320	

07074000 STRAWBERRY RIVER NEAR POUGHKEEPSIE, 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.

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, Hydrologic Unit 11010012, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
18...	9827	9827	81	482	8.8	12.0	5	12.6	4.4	40	--	310
NOV												
22...	9827	9827	97	435	8.2	9.0	5	11.5	1.5	<20	--	--
DEC												
28...	9827	9827	100	415	8.3	4.0	5	12.0	1.5	180	--	--
JAN												
26...	9827	9827	108	--	--	--	--	--	--	<5	--	--
FEB												
22...	9827	9827	158	--	--	--	--	--	--	50	--	--
MAR												
22...	9827	9827	383	381	8.3	13.0	5	10.2	1.2	--	--	--
APR												
26...	9827	9827	768	299	8.1	17.0	30	9.1	1.5	50	100	--
MAY												
24...	9827	9827	243	401	8.2	25.0	5	8.2	.6	8	16	--
JUN												
21...	9827	9827	105	386	8.2	28.0	10	8.0	1.1	89	--	--
JUL												
26...	9827	9827	92	367	8.3	28.0	10	7.9	2.0	440	--	--
AUG												
23...	9827	9827	94	384	8.4	28.0	5	8.1	1.2	15	--	200
SEP												
27...	9827	9827	430	316	8.2	24.0	40	6.3	<.1	2100	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
18...	14	--	60	--	40	20	3.2	310	25	296	10
NOV											
22...	--	--	--	--	--	--	--	--	--	--	5.0
DEC											
28...	--	--	--	--	--	--	--	--	--	--	4.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	3.0
APR											
26...	--	--	--	--	--	--	--	--	--	--	2.0
MAY											
24...	--	49	--	28	--	2.1	<.1	--	--	--	4.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	4.0
JUL											
26...	--	--	--	--	--	--	--	--	--	--	4.0
AUG											
23...	--	40	--	24	--	2.4	1.7	--	--	--	1.0
SEP											
27...	--	--	--	--	--	--	--	--	--	--	5.0

07074100 STRAWBERRY RIVER NEAR SMITHVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
18...	7.0	313	10	<.10	--	--	.05	<3	<10	<3	410	460
NOV												
22...	4.5	254	8	<.10	--	--	.02	--	--	--	--	--
DEC												
28...	4.0	249	9	<.10	--	--	.02	--	--	--	--	--
MAR												
22...	4.5	212	20	.16	<.10	<.10	.03	--	--	--	--	--
APR												
26...	4.0	185	38	.18	<.05	<.10	.08	--	--	--	--	--
MAY												
24...	4.5	227	19	.16	.01	--	.05	--	<10	--	30	740
JUN												
21...	4.5	222	19	.16	.01	.16	.03	--	--	--	--	--
JUL												
26...	4.0	--	32	.08	.00	.43	.04	--	--	--	--	--
AUG												
23...	4.5	211	22	.05	<.05	.14	.04	--	<10	<5	40	540
SEP												
27...	4.5	196	51	.27	<.05	.08	.09	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
18...	60	2100	<.5	240	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
28...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	20	120	--	30	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	20	150	--	130	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010009, 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 mi² (22,163 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
18...	9827	9827	363	8.3	15.0	--	10.3	1.9	300	--	260
NOV											
22...	9827	9827	382	8.1	8.0	5	10.8	2.2	100	--	--
DEC											
28...	9827	9827	384	8.3	5.0	5	11.9	1.1	50	--	--
JAN											
26...	9827	9827	--	--	--	--	--	--	120	--	--
FEB											
22...	9827	9827	--	--	--	--	--	--	<5	--	--
MAR											
22...	9827	9827	240	8.0	14.0	30	9.4	2.2	--	--	--
APR											
26...	9827	9827	221	7.9	19.0	45	9.0	3.2	--	180	--
MAY											
24...	9827	9827	291	8.1	25.0	10	8.6	2.0	160	90	--
JUN											
21...	9827	9827	346	8.2	27.0	10	8.2	3.2	<4	--	--
JUL											
26...	9827	9827	333	8.4	28.0	10	8.5	3.5	250	--	--
AUG											
23...	9827	9827	283	8.2	27.0	15	7.7	2.5	280	--	120
SEP											
27...	9827	9827	193	7.8	22.0	100	7.5	5.0	18000	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
18...	71	--	52	--	32	5.6	.9	230	189	2.0
NOV										
22...	--	--	--	--	--	--	--	--	--	3.0
DEC										
28...	--	--	--	--	--	--	--	--	--	3.0
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
22...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	--	--	--	--	--	--	--	--	12
APR										
26...	--	--	--	--	--	--	--	--	--	1.0
MAY										
24...	--	3.0	--	19	--	3.6	1.1	--	--	6.0
JUN										
21...	--	--	--	--	--	--	--	--	--	2.0
JUL										
26...	--	--	--	--	--	--	--	--	--	4.0
AUG										
23...	--	21	--	16	--	2.1	1.9	--	--	1.0
SEP										
27...	--	--	--	--	--	--	--	--	--	3.0

07074490 BLACK RIVER AT JACKSONPORT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
18...	8.0	216	20	.13	--	--	.02	<3	<10	<3	<10	280
NOV												
22...	6.0	218	11	<.10	--	--	.02	--	--	--	--	--
DEC												
28...	6.5	208	11	<.10	--	--	.06	--	--	--	--	--
MAR												
22...	4.5	158	103	.24	<.10	<.10	.16	--	--	--	--	--
APR												
26...	3.5	147	90	.25	<.05	<.10	.08	--	--	--	--	--
MAY												
24...	5.5	176	90	.19	.01	--	.02	--	<10	--	20	2700
JUN												
21...	7.0	191	82	.06	.01	.11	.07	--	--	--	--	--
JUL												
26...	6.0	--	57	.09	.01	.00	.06	--	--	--	--	--
AUG												
23...	4.0	167	146	.28	<.05	.10	.11	--	<10	<5	<10	2700
SEP												
27...	4.0	166	264	.21	<.05	.13	.29	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
18...	<10	94	<.5	<10	--	--	--	--	--	--	--	--
NOV												
22...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
28...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	<10	240	--	20	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	<10	310	--	20	--	--	--	--	--	--	--	--
SEP												
27...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010013, 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.--44 years, 22,680 ft^3/s (642 m^3/s), 16,430,000 acre-ft/yr (20,300 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, 123,000 ft^3/s (3,480 m^3/s) Mar. 30; maximum gage height, 29.12 ft (8.876 m) June 27; minimum discharge, 4,300 ft^3/s (122 m^3/s) Dec. 28, 29, 30, gage height, -0.40 ft (-0.122 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10900	8320	11400	7790	9530	9010	104000	17600	7690	8190	6450	10500
2	12000	631	13100	9220	11500	10600	91400	16400	8610	8610	6700	11000
3	12900	5630	12000	7570	9720	13200	84000	16200	8940	9620	5460	10600
4	13800	13300	10900	5760	8450	27500	80600	18000	8500	9670	5590	11700
5	14100	13500	11000	9360	7440	22500	75000	18500	9280	8160	6320	9600
6	15400	13200	7800	8990	6580	22700	69600	17700	9060	8400	5370	8030
7	12600	10300	6170	9970	6730	17500	62400	20100	7960	9440	5960	8120
8	9280	8530	6420	12300	6360	15300	55100	15300	7460	9940	6660	8190
9	6580	8210	8280	12700	8530	15700	49200	14800	6640	8890	5140	8280
10	6030	11500	9910	15200	10100	15200	44100	13500	6840	9250	5830	8080
11	7210	9170	10400	18200	9080	13400	39700	15000	8710	8840	6650	8440
12	6010	7660	9710	20100	7970	21600	35900	13700	8720	7580	5910	8340
13	5960	11300	8920	18500	7260	24100	33300	13200	7870	7720	6240	7630
14	10900	11800	8080	15600	6580	25400	30200	14500	6200	8550	6810	7190
15	11700	9170	7470	13000	6160	25500	27200	16300	6550	8290	8040	8870
16	10300	7710	6830	10100	9710	24800	23800	17000	7160	8550	7860	10600
17	9780	8390	6100	12000	13600	22800	21000	16000	6690	9030	8090	9760
18	7790	9650	5990	17400	14000	20100	17300	18500	6560	7540	8530	8990
19	7150	8490	5920	15400	12200	20800	15400	16100	6050	6740	8720	8490
20	12600	8510	5300	14000	10400	17400	15700	18000	6780	6560	10300	8080
21	17800	6630	5210	13800	10100	16300	16800	16300	7350	8690	12000	9040
22	15400	5430	8090	10300	9690	14500	18900	14400	7710	8130	11000	8100
23	14100	4590	10100	10000	10800	15300	22500	11200	7290	6460	9940	8730
24	14300	5260	8640	8530	10700	14000	26900	9760	6560	7800	9720	8170
25	13100	9010	7360	7680	10300	12400	21600	15600	5890	8100	9240	12700
26	9940	8390	6670	8320	11500	12900	19900	16800	7230	7590	8560	15400
27	12500	6290	5240	9880	10900	14200	20900	14300	8340	8480	8170	16700
28	10500	5420	4440	10200	9620	59200	20200	12900	6160	7580	10900	18600
29	9960	4950	4440	12500	---	71800	19000	10700	7250	6480	10300	21700
30	11600	6200	4410	18000	---	103000	18200	9210	10800	6150	9120	29400
31	11100	---	5750	12700	---	119000	---	8200	---	7100	9450	---
TOTAL	343290	247141	242050	375070	265510	837710	1179800	465770	226850	252130	245030	329030
MEAN	11070	8238	7808	12100	9483	27020	39330	15020	7562	8133	7904	10970
MAX	17800	13500	13100	20100	14000	119000	104000	20100	10800	9940	12000	29400
MIN	5960	631	4410	5760	6160	9010	15400	8200	5890	6150	5140	7190
AC-FT	680900	490200	480100	744000	526600	1662000	2340000	923900	450000	500100	486000	652600

CAL YR 1976 TOTAL 5837241 MEAN 15950 MAX 37400 MIN 631 AC-FT 11580000
WTR YR 1977 TOTAL 5009381 MEAN 13720 MAX 119000 MIN 631 AC-FT 9936000

07074595 VILLAGE CREEK NEAR WALNUT RIDGE, AR

LOCATION.--Lat 36°05'26", long 90°56'19", in SW¼SW¼ sec.24, T.17 N., R.1 E., Lawrence County, Hydrologic Unit 11010013, at bridge on county road, 1.8 mi (2.9 km) northeast of Walnut Ridge.

PERIOD OF RECORD.--July 1976 to June 1977

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	OIL-GREASE (SEVERITY) (01300)	GAS BUBBLES (SEVERITY) (01310)	FLOATING SLUDGE (SEVERITY) (01315)	ATMOSPHERIC ODOR (SEVERITY) (01330)	DEAD FISH (SEVERITY) (01340)	FLOATING DEBRIS (SEVERITY) (01345)	TURBIDITY (SEVERITY) (01350)	FLOATING OR SOLID ICE COVER (SEVERITY) (01355)
JUL , 1976										
20...	1028	1028	0	0	0	0	0	0	2	--
AUG										
18...	1028	1028	0	0	0	0	0	0	1	--
SEP										
15...	1028	1028	0	0	0	3	0	0	0	--
OCT										
14...	1028	1028	0	1	0	1	0	1	2	--
NOV										
10...	1028	1028	1	0	0	0	0	3	2	--
DEC										
15...	1028	1028	0	0	0	0	0	2	1	--
JAN , 1977										
17...	1028	1028	--	--	--	--	--	--	--	4
FEB										
15...	1028	1028	0	0	0	0	0	1	2	--
MAR										
16...	1028	1028	0	0	0	0	0	1	4	--
APR										
12...	1028	1028	0	0	0	0	0	0	4	--
MAY										
10...	1028	1028	0	0	0	0	0	3	3	--
JUN										
08...	1028	1028	2	0	0	0	0	4	1	--

DATE	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)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
JUL , 1976										
20...	2.7	232	7.5	27.0	24.5	15	4.4	54	94	0
AUG										
18...	19	348	7.4	28.5	23.0	25	5.6	67	190	17
SEP										
15...	7.7	400	7.8	26.0	19.5	15	4.3	46	140	0
OCT										
14...	.65	450	7.5	14.5	13.0	10	5.0	49	200	0
NOV										
10...	.00	230	6.9	11.0	7.0	20	4.0	34	87	8
DEC										
15...	4.1	262	7.2	2.5	3.5	10	4.0	31	98	0
JAN , 1977										
17...	.00	282	7.3	-6.0	1.0	8	--	--	110	9
FEB										
15...	8.5	130	6.7	10.0	5.0	75	8.5	69	39	20
MAR										
16...	35	90	6.7	12.0	14.0	200	7.6	74	28	3
APR										
12...	.00	110	7.3	31.0	23.0	110	3.9	46	38	0
MAY										
10...	.00	167	7.4	15.0	14.0	75	2.6	26	62	1
JUN										
08...	E.15	178	7.5	26.0	18.0	10	2.8	30	73	1

07074595 VILLAGE CREEK NEAR WALNUT RIDGE, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
20...	23	8.8	7.6	15	.3	3.0	122	0	100	6.2
AUG										
18...	51	15	--	--	--	--	210	0	172	13
SEP										
15...	26	17	--	--	--	--	234	0	192	5.9
OCT										
14...	49	19	21	18	.6	4.5	258	0	212	13
NOV										
10...	22	7.7	--	--	--	--	96	0	79	19
DEC										
15...	23	9.8	--	--	--	--	120	0	98	12
JAN , 1977										
17...	26	11	9.9	15	.4	8.5	123	0	101	9.9
FEB										
15...	8.7	4.3	--	--	--	--	24	0	20	7.7
MAR										
16...	6.4	2.8	--	--	--	--	30	0	25	9.6
APR										
12...	8.6	4.1	4.3	18	.3	4.0	50	0	41	4.0
MAY										
10...	15	5.9	--	--	--	--	74	0	61	4.8
JUN										
08...	18	6.9	--	--	--	--	88	0	72	4.5

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
20...	6.5	3.5	18	152	151	131	.21	1.12	48	199
AUG										
18...	--	--	--	222	237	--	.30	11.6	59	296
SEP										
15...	--	--	--	240	260	--	.33	4.99	35	295
OCT										
14...	7.9	20	21	272	287	269	.37	.48	19	306
NOV										
10...	--	--	--	168	171	--	.23	.00	52	223
DEC										
15...	--	--	--	154	164	--	.21	1.70	35	199
JAN , 1977										
17...	13	22	14	195	205	165	.27	.00	32	237
FEB										
15...	--	--	--	93	175	--	.13	2.14	38	213
MAR										
16...	--	--	--	69	282	--	.09	6.60	94	376
APR										
12...	6.8	3.4	9.7	87	160	66	.12	.00	88	248
MAY										
10...	--	--	--	102	157	--	.14	.00	66	223
JUN										
08...	--	--	--	120	138	--	.16	.05	9	147

07074595 VILLAGE CREEK NEAR WALNUT RIDGE, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
20...	.45	.30	.75	3.3	.19	--	--	1500	3300	--
AUG										
18...	.26	1.1	1.4	6.0	.25	--	3	--	--	--
SEP										
15...	.17	.63	.80	3.5	.14	--	3	--	--	6.4
OCT										
14...	.03	.60	.63	2.8	.12	--	--	500	1200	--
NOV										
10...	.12	.88	1.0	4.4	.22	--	--	--	--	--
DEC										
15...	.04	1.0	1.0	4.6	.50	.30	--	--	--	--
JAN , 1977										
17...	.04	.70	.74	3.3	.51	.17	3	2000	5200	--
FEB										
15...	2.3	1.3	3.6	16	.27	.27	--	--	--	--
MAR										
16...	.37	.07	.44	1.9	.42	.21	--	--	--	--
APR										
12...	.19	1.2	1.4	6.2	.46	.44	4	3200	1200	11
MAY										
10...	.08	2.4	2.5	11	.75	.55	--	--	--	--
JUN										
08...	.05	.68	.73	3.2	.36	.29	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
15...	5	.0	17	22	40	6.5	.0	4.2	.0	.0	2.5	.0
AUG , 1977												
10...	9	.0	1	13	14	38	.0	2.0	.0	.0	.1	.2

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
15...	2.5	.0	.0	.0	.0	.0	0	.0	.45	.16	.00
AUG , 1977											
10...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

07074645 LICK POND CREEK NEAR ALICIA, AR

LOCATION.--Lat 35°53'38", long 91°04'08", in W½ sec. 34, T.15 N., R.1 W., Lawrence County, Hydrologic Unit 11010013, at bridge on U.S. Highway 230, 0.8 mi (1.3 km) east of Alicia.

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 to JUNE 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	OIL-GREASE (SEVERITY) (01300)	GAS BUBBLES (SEVERITY) (01310)	FLOATING SLUDGE (SEVERITY) (01315)	ATMOSPHERIC ODOR (SEVERITY) (01330)	DEAD FISH (SEVERITY) (01340)	FLOATING DEBRIS (SEVERITY) (01345)	TURBIDITY (SEVERITY) (01350)	FLOATING OR SOLID ICE COVER (SEVERITY) (01355)
JUL , 1976										
20...	1028	1028	2	0	0	1	0	0	2	--
AUG										
18...	1028	1028	0	0	0	0	0	1	1	--
SEP										
15...	1028	1028	0	0	0	2	0	0	0	--
OCT										
13...	1028	1028	1	1	0	1	0	1	3	--
NOV										
10...	1028	1028	0	0	0	0	0	1	3	--
DEC										
15...	1028	1028	0	0	0	0	0	1	1	--
JAN , 1977										
17...	1028	1028	--	--	--	--	--	--	--	4
FEB										
15...	1028	1028	0	0	0	0	0	1	2	--
MAR										
15...	1028	1028	0	0	0	0	0	1	4	--
APR										
12...	1028	1028	0	0	0	0	0	1	4	--
MAY										
09...	1028	1028	2	0	0	0	0	2	4	--
JUN										
07...	1028	1028	0	0	1	0	0	2	1	--

DATE	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)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
JUL , 1976										
20...	.00	317	7.3	28.0	27.0	40	3.8	48	120	0
AUG										
18...	35	418	7.6	35.0	26.0	45	5.2	65	200	0
SEP										
15...	12	442	8.0	29.0	22.5	25	6.2	73	190	0
OCT										
13...	E4.0	365	7.7	27.5	16.5	8	6.2	66	180	0
NOV										
10...	.00	250	6.9	17.0	11.0	50	3.1	29	78	6
DEC										
15...	.00	294	7.2	8.5	5.0	20	6.1	49	94	8
JAN , 1977										
17...	.00	290	7.2	-9.0	2.0	15	--	--	96	4
FEB										
15...	20	180	7.1	4.5	7.0	100	8.0	68	46	22
MAR										
15...	122	94	6.6	32.0	17.0	300	5.7	59	25	0
APR										
12...	.00	110	7.1	32.0	19.0	290	3.8	42	36	0
MAY										
09...	.00	96	7.2	27.5	24.5	260	4.8	58	30	0
JUN										
07...	4.0	293	7.9	36.0	25.0	40	3.7	46	110	0

07074645 LICK POND CREEK NEAR ALICIA, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
20...	28	11	17	24	.7	2.8	178	0	146	14
AUG										
18...	51	17	--	--	--	--	252	0	207	10
SEP										
15...	47	18	--	--	--	--	258	0	212	4.1
OCT										
13...	46	16	9.7	10	.3	4.1	221	0	181	7.1
NOV										
10...	19	7.5	--	--	--	--	88	0	72	18
DEC										
15...	21	10	--	--	--	--	104	0	85	10
JAN , 1977										
17...	22	10	16	25	.7	8.7	112	0	92	11
FEB										
15...	9.9	5.2	--	--	--	--	30	0	25	3.8
MAR										
15...	5.5	2.7	--	--	--	--	32	0	26	11
APR										
12...	7.8	3.9	6.9	27	.5	3.2	45	0	37	6.0
MAY										
09...	6.8	3.1	--	--	--	--	38	0	31	3.8
JUN										
07...	26	11	--	--	--	--	142	0	116	2.9

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
20...	7.2	7.6	10	184	186	171	.25	.00	114	300
AUG										
18...	--	--	--	244	245	--	.33	23.1	106	351
SEP										
15...	--	--	--	256	274	--	.35	8.29	42	316
OCT										
13...	8.0	11	23	224	243	227	.30	--	13	256
NOV										
10...	--	--	--	173	187	--	.24	.00	65	252
DEC										
15...	--	--	--	175	181	--	.24	.00	26	207
JAN , 1977										
17...	18	26	14	199	224	170	.27	.00	21	245
FEB										
15...	--	--	--	118	291	--	.16	6.44	13	304
MAR										
15...	--	--	--	81	394	--	.11	26.7	180	574
APR										
12...	7.5	5.1	8.4	84	459	65	.11	.00	126	585
MAY										
09...	--	--	--	59	289	--	.08	.00	182	471
JUN										
07...	--	--	--	176	196	--	.24	1.91	68	264

07074645 LICK POND CREEK NEAR ALICIA, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
20...	.22	.77	.99	4.4	.17	--	--	2800	2800	--
AUG										
18...	.25	1.1	1.4	6.0	.18	--	3	--	--	--
SEP										
15...	.06	.51	.57	2.5	.09	--	2	--	--	5.5
OCT										
13...	.09	.59	.68	3.0	.13	--	--	460	1400	--
NOV										
10...	.18	.85	1.0	4.6	.20	--	--	--	--	--
DEC										
15...	.01	1.1	1.1	4.9	.22	.11	--	--	--	--
JAN , 1977										
17...	.13	.68	.81	3.6	.16	.12	4	1200	1600	--
FEB										
15...	1.8	1.1	2.9	13	.23	.22	--	--	--	--
MAR										
15...	.37	1.4	1.8	7.8	1.0	.24	--	--	--	--
APR										
12...	.16	1.7	1.9	8.2	.63	.63	2	10000	1300	25
MAY										
09...	.08	2.3	2.4	11	.41	.41	--	--	--	--
JUN										
07...	.07	.94	1.0	4.5	.18	.12	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
15...	10	.0	0	1.4	1.3	.0	.0	.7	.0	.0	.0	.0
AUG , 1977												
11...	8	.0	0	.3	.2	.2	.0	.1	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
15...	.0	.0	.0	.0	.0	.0	0	.0	.34	.69	.01
AUG , 1977											
11...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

07074660 VILLAGE CREEK NEAR SWIFTON, AR

LOCATION.--Lat 35°49'10", long 91°05'05", in NW¼SW¼ sec.27, T.14 N., R.1 W., Jackson County, Hydrologic Unit 11010013, at bridge on county road, 5.1 mi (8.2 km) upstream from Maple Ditch and 2.4 mi (3.9 km) east of Swifton.

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 to JUNE 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	OIL-GREASE (SEVER-ITY) (01300)	GAS BUBBLES (SEVER-ITY) (01310)	FLOAT-ING SLUDGE (SEVER-ITY) (01315)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DEAD FISH (SEVER-ITY) (01340)	FLOAT-ING DEBRIS (SEVER-ITY) (01345)	TUR-BID-ITY (SEVER-ITY) (01350)	FLOAT-ING OR SOLID ICE COVER (SEVER-ITY) (01355)
JUL , 1976										
20...	1028	1028	2	1	0	0	0	1	1	--
AUG										
18...	1028	1028	3	0	3	1	0	3	1	--
SEP										
15...	1028	1028	2	0	0	0	0	2	0	--
OCT										
13...	1028	1028	4	1	0	1	0	3	3	--
NOV										
10...	1028	1028	2	0	0	0	0	4	3	--
DEC										
14...	1028	1028	2	0	1	1	0	2	1	--
JAN , 1977										
17...	1028	1028	--	--	--	--	--	--	--	4
FEB										
15...	1028	1028	0	0	0	0	0	1	2	--
MAR										
15...	1028	1028	0	0	0	0	0	3	4	--
APR										
12...	1028	1028	0	0	0	0	0	1	4	--
MAY										
09...	1028	1028	4	0	3	1	0	2	4	--
JUN										
07...	1028	1028	4	0	0	1	0	3	1	--

DATE	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)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)
JUL , 1976										
20...	1.5	153	6.9	27.5	24.5	15	2.4	30	57	0
AUG										
18...	56	337	6.9	29.5	24.0	25	3.5	43	150	0
SEP										
15...	60	396	8.1	30.0	22.0	25	3.8	45	160	0
OCT										
13...	.00	406	7.6	25.0	15.5	8	2.7	28	180	0
NOV										
10...	.00	270	7.5	17.0	9.5	8	1.1	10	89	0
DEC										
14...	6.5	262	7.0	6.5	4.0	6	3.8	30	93	2
JAN , 1977										
17...	.00	292	7.1	-9.0	.5	8	--	--	95	0
FEB										
15...	122	148	6.9	2.0	5.0	50	10.2	82	39	13
MAR										
15...	790	87	6.6	29.5	16.0	280	6.7	70	24	1
APR										
12...	18	100	6.9	30.5	23.0	160	3.6	43	33	0
MAY										
09...	.00	112	7.3	27.0	27.0	150	1.8	21	39	3
JUN										
07...	.00	197	7.2	26.0	20.0	8	.2	2	68	1

07074660 VILLAGE CREEK NEAR SWIFTON, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
20...	14	5.3	7.1	20	.4	2.7	85	0	70	17
AUG										
18...	37	13	--	--	--	--	312	0	256	63
SEP										
15...	36	16	--	--	--	--	270	0	221	3.4
OCT										
13...	45	17	18	17	.6	3.9	240	0	197	9.6
NOV										
10...	22	8.3	--	--	--	--	110	0	90	5.6
DEC										
14...	22	9.3	--	--	--	--	111	0	91	18
JAN , 1977										
17...	20	11	13	21	.6	7.6	121	0	99	15
FEB										
15...	9.2	4.0	--	--	--	--	32	0	26	6.4
MAR										
15...	5.5	2.4	--	--	--	--	28	0	23	11
APR										
12...	7.8	3.2	4.5	21	.3	3.5	42	0	34	8.5
MAY										
09...	9.7	3.7	--	--	--	--	45	0	37	3.6
JUN										
07...	17	6.3	--	--	--	--	82	0	67	8.3

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
20...	3.3	4.2	10	104	105	89	.14	.42	44	149
AUG										
18...	--	--	--	188	218	--	.26	28.5	28	246
SEP										
15...	--	--	--	226	243	--	.31	36.9	44	287
OCT										
13...	8.5	16	18	235	255	245	.32	.00	10	265
NOV										
10...	--	--	--	190	175	--	.26	.00	30	205
DEC										
14...	--	--	--	159	152	--	.22	2.82	15	167
JAN , 1977										
17...	14	22	14	190	210	161	.26	.00	0	210
FEB										
15...	--	--	--	95	148	--	.13	31.3	34	172
MAR										
15...	--	--	--	73	321	--	.10	156	170	491
APR										
12...	7.5	3.6	7.6	58	189	58	.08	2.90	124	313
MAY										
09...	--	--	--	65	179	--	.09	.00	92	271
JUN										
07...	--	--	--	116	128	--	.16	.00	12	140

07074660 VILLAGE CREEK NEAR SWIFTON, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
20...	.07	.79	.86	3.8	.32	--	--	1900	2700	--
AUG										
18...	.09	.85	.94	4.2	.16	--	2	--	--	--
SEP										
15...	.12	.64	.76	3.4	.11	--	2	--	--	7.3
OCT										
13...	.04	.56	.60	2.7	.09	--	--	390	660	--
NOV										
10...	.03	.74	.77	3.4	.14	--	--	--	--	--
DEC										
14...	.00	.61	.61	2.7	.22	.14	--	--	--	--
JAN , 1977										
17...	.07	.15	.22	.97	.26	.17	4	1400	2800	--
FEB										
15...	1.4	1.3	2.7	12	.26	.20	--	--	--	--
MAR										
15...	.54	1.3	1.8	8.1	.47	.23	--	--	--	--
APR										
12...	.23	1.4	1.6	7.2	.39	.30	5	4800	750	12
MAY										
09...	.08	2.0	2.1	9.2	.75	.54	--	--	--	--
JUN										
07...	.01	1.1	1.1	4.9	.46	.25	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOTTOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
15...	5	.0	0	5.5	15	4.4	.0	.3	.2	.0	.0	.0
AUG , 1977												
11...	6	.1	1	4.7	3.4	1.7	.0	.9	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOTTOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
15...	.0	.0	.0	.0	.0	.0	0	.0	.08	.14	.00
AUG , 1977											
11...	.6	.0	.0	.0	.0	.0	0	.0	--	--	--

07074665 MAPLE DITCH NEAR SWIFTON, AR

LOCATION.--Lat 35°47'16", long 91°07'13", in SW¼ sec.5, T.13 N., R.1 W., Jackson County, Hydrologic Unit 11010013, at bridge on county road 2.6 mi (4.2 km) southeast of Swifton.

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	OIL-GREASE (SEVER-ITY) (01300)	GAS BUBBLES (SEVER-ITY) (01310)	FLOAT-ING SLUDGE (SEVER-ITY) (01315)	ATMOS-PHERIC ODOR (SEVER-ITY) (01330)	DEAD FISH (SEVER-ITY) (01340)	FLOAT-ING DEBRIS (SEVER-ITY) (01345)	TUR-BID-ITY (SEVER-ITY) (01350)	FLOAT-ING OR SOLID ICE COVER (SEVER-ITY) (01355)
JUL , 1976										
20...	1028	1028	3	3	0	0	0	2	1	--
AUG										
18...	1028	1028	3	0	0	0	0	3	1	--
SEP										
16...	1028	1028	0	0	3	0	0	0	0	--
OCT										
13...	1028	1028	2	2	0	1	0	3	4	--
NOV										
10...	1028	1028	2	0	0	4	0	4	2	--
DEC										
14...	1028	1028	0	0	0	0	0	1	2	--
JAN , 1977										
17...	1028	1028	--	--	--	--	--	--	--	4
FEB										
15...	1028	1028	0	0	0	0	0	1	2	--
MAR										
15...	1028	1028	0	0	0	0	0	3	4	--
APR										
12...	1028	1028	0	0	4	0	0	4	4	--
MAY										
09...	1028	1028	3	0	0	0	0	2	3	--
JUN										
07...	1028	1028	3	3	0	0	0	3	3	--

DATE	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)	TUR-BID-ITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)
JUL , 1976										
20...	.00	88	6.8	30.0	25.5	25	4.0	50	35	0
AUG										
18...	.00	150	6.7	34.5	24.0	20	2.7	33	57	0
SEP										
16...	.00	290	7.9	26.5	19.0	10	1.9	21	120	0
OCT										
13...	.00	295	7.3	27.5	15.5	15	6.2	64	140	13
NOV										
10...	.00	210	6.9	18.0	10.0	8	1.5	14	63	0
DEC										
14...	.00	158	6.9	5.5	5.5	45	.8	6	64	1
JAN , 1977										
17...	.00	165	7.2	-11.0	.0	20	--	--	61	8
FEB										
15...	.00	110	6.9	5.0	8.0	95	9.8	85	32	13
MAR										
15...	7.3	60	6.5	30.0	16.5	200	6.2	64	18	2
APR										
12...	.00	80	7.0	30.0	19.0	130	3.4	38	28	3
MAY										
09...	.00	73	7.1	27.5	21.5	85	1.5	17	27	2
JUN										
07...	.00	138	7.2	26.0	21.5	90	1.8	21	44	1

07074665 MAPLE DITCH NEAR SWIFTON, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
20...	9.2	2.9	1.6	8	.1	3.0	47	0	39	12
AUG										
18...	16	4.1	--	--	--	--	106	0	87	34
SEP										
16...	32	9.9	--	--	--	--	154	0	126	3.1
OCT										
13...	36	11	16	20	.6	5.0	155	0	127	12
NOV										
10...	16	5.5	--	--	--	--	114	0	94	23
DEC										
14...	15	6.4	--	--	--	--	76	0	62	15
JAN , 1977										
17...	14	6.3	7.1	18	.4	8.4	64	0	52	6.5
FEB										
15...	8.0	3.0	--	--	--	--	24	0	20	4.8
MAR										
15...	4.7	1.5	--	--	--	--	20	0	16	10
APR										
12...	7.1	2.5	3.2	17	.3	4.6	31	0	25	5.0
MAY										
09...	7.5	1.9	--	--	--	--	30	0	25	3.8
JUN										
07...	12	3.3	--	--	--	--	52	0	43	5.2

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
20...	1.6	2.1	5.8	64	90	49	.09	.00	48	138
AUG										
18...	--	--	--	90	105	--	.12	.00	36	141
SEP										
16...	--	--	--	183	201	--	.25	.00	16	217
OCT										
13...	15	23	24	202	210	206	.27	.00	23	233
NOV										
10...	--	--	--	164	150	--	.22	.00	24	174
DEC										
14...	--	--	--	119	129	--	.16	.00	87	216
JAN , 1977										
17...	14	15	13	139	169	109	.19	.00	23	192
FEB										
15...	--	--	--	86	180	--	.12	.00	37	217
MAR										
15...	--	--	--	50	257	--	.07	.99	58	315
APR										
12...	6.1	3.3	5.3	56	160	47	.08	.00	120	280
MAY										
09...	--	--	--	49	120	--	.07	.00	48	168
JUN										
07...	--	--	--	91	52	--	.12	.00	306	358

07074665 MAPLE DITCH NEAR SWIFTON, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
20...	.03	2.2	2.2	9.9	.50	--	--	4000	2000	--
AUG										
18...	.07	1.8	1.9	8.3	.29	--	6	--	--	--
SEP										
16...	.06	.77	.83	3.7	.12	--	4	--	--	4.9
OCT										
13...	.02	2.4	2.4	11	.58	--	--	2700	1400	--
NOV										
10...	.01	.96	.97	4.3	.67	--	--	--	--	--
DEC										
14...	.08	1.2	1.3	5.7	1.1	.58	--	--	--	--
JAN , 1977										
17...	1.1	.66	1.8	7.8	.68	.50	4	1800	1800	--
FEB										
15...	1.3	1.1	2.4	11	.29	.25	--	--	--	--
MAR										
15...	.52	1.1	1.6	7.2	.48	.48	--	--	--	--
APR										
12...	.11	1.8	1.9	8.5	.45	.41	8	4700	1500	24
MAY										
09...	.03	1.9	1.9	8.5	.68	.45	--	--	--	--
JUN										
07...	.02	3.1	3.1	14	.86	.74	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOTTOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
16...	20	.0	1	6.9	2.2	.0	.0	.0	.0	.0	.0	.0
AUG , 1977												
11...	5	.4	11	45	6.7	19	.0	.0	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOTTOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
16...	.0	.0	.0	.0	.0	.0	0	.0	.00	.00	.00
AUG , 1977											
11...	2.8	.0	.0	.0	.0	.0	0	.0	--	--	--

07074675 SWAN POND DITCH NEAR TUCKERMAN, AR

LOCATION.--Lat 35°42'46", long 91°11'08", in SE¼ sec.34, T.13 N., R.2 W., Jackson County, Hydrologic Unit 11010013, at bridge on county road 1.5 mi (2.4 km) southeast of Tuckerman.

PERIOD OF RECORD.--July 1976 to June 1977.

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	OIL-GREASE (SEVERITY) (01300)	GAS BUBBLES (SEVERITY) (01310)	FLOATING SLUDGE (SEVERITY) (01315)	ATMOSPHERIC ODOR (SEVERITY) (01330)	DEAD FISH (SEVERITY) (01340)	FLOATING DEBRIS (SEVERITY) (01345)	TURBIDITY (SEVERITY) (01350)	FLOATING OR SOLID ICE COVER (SEVERITY) (01355)
JUL , 1976										
20...	1028	1028	0	0	0	0	0	0	1	--
AUG										
19...	1028	1028	0	0	0	1	0	1	1	--
SEP										
16...	1028	1028	0	0	2	3	0	1	0	--
OCT										
13...	1028	1028	1	2	0	0	0	2	2	--
NOV										
10...	1028	1028	0	0	0	0	0	2	2	--
DEC										
14...	1028	1028	0	0	0	0	0	2	3	--
JAN , 1977										
17...	1028	1028	--	--	--	--	--	--	--	4
FEB										
15...	1028	1028	0	0	0	0	0	1	2	--
MAR										
15...	1028	1028	0	0	0	0	0	1	3	--
APR										
12...	1028	1028	0	0	0	0	0	0	1	--
MAY										
09...	1028	1028	3	0	0	0	0	1	2	--
JUN										
07...	1028	1028	0	0	0	0	0	2	1	--

DATE	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)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
JUL , 1976										
20...	.00	224	7.1	26.0	24.5	7	.6	7	93	0
AUG										
19...	.00	368	7.2	21.5	21.0	7	.9	10	170	0
SEP										
16...	.00	477	7.9	29.5	19.5	4	.3	3	200	0
OCT										
13...	.00	485	7.5	27.0	15.0	6	1.1	11	180	0
NOV										
10...	.00	285	7.5	18.0	10.0	9	6.9	63	78	0
DEC										
14...	.00	407	7.7	6.5	5.0	70	7.1	57	110	4
JAN , 1977										
17...	.00	270	7.1	-11.0	1.0	15	--	--	77	7
FEB										
15...	.64	155	7.1	8.0	5.0	85	6.6	53	44	13
MAR										
15...	32	88	6.5	27.5	15.0	200	6.2	64	22	0
APR										
12...	.00	130	7.0	29.0	21.0	70	3.5	40	36	0
MAY										
09...	.00	308	7.4	27.0	20.0	10	.5	1	87	0
JUN										
07...	.00	508	7.4	30.5	21.5	8	.3	3	160	24

07074675 SWAN POND DITCH NEAR TUCKERMAN, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
20...	24	8.1	13	23	.6	3.0	122	0	100	16
AUG										
19...	48	12	--	--	--	--	280	0	230	28
SEP										
16...	55	15	--	--	--	--	244	0	200	4.9
OCT										
13...	49	14	30	26	1.0	7.4	232	0	190	12
NOV										
10...	19	7.3	--	--	--	--	96	0	79	4.9
DEC										
14...	30	8.8	--	--	--	--	131	0	107	4.2
JAN , 1977										
17...	20	6.6	15	27	.7	8.6	86	0	71	11
FEB										
15...	11	4.1	--	--	--	--	38	0	31	4.3
MAR										
15...	5.1	2.3	--	--	--	--	27	0	22	14
APR										
12...	8.9	3.4	7.8	29	.6	4.5	46	0	38	7.4
MAY										
09...	23	7.1	--	--	--	--	110	0	90	7.0
JUN										
07...	43	12	--	--	--	--	166	0	136	11

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
20...	14	8.3	13	166	171	144	.23	.00	11	182
AUG										
19...	--	--	--	245	260	--	.33	.00	6	266
SEP										
16...	--	--	--	292	321	--	.40	.00	6	327
OCT										
13...	40	25	24	296	325	304	.40	.00	0	325
NOV										
10...	--	--	--	205	190	--	.28	.00	31	221
DEC										
14...	--	--	--	260	396	--	.35	.00	108	404
JAN , 1977										
17...	31	19	13	183	221	156	.25	.00	18	239
FEB										
15...	--	--	--	116	197	--	.16	.20	45	242
MAR										
15...	--	--	--	75	302	--	.10	6.48	74	376
APR										
12...	9.6	7.2	5.2	89	139	69	.12	.00	90	229
MAY										
09...	--	--	--	182	210	--	.25	.00	7	217
JUN										
07...	--	--	--	335	356	--	.46	.00	6	362

07074675 SWAN POND DITCH NEAR TUCKERMAN, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
20...	.08	1.0	1.1	4.8	.50	--	--	830	1100	--
AUG										
19...	.01	1.8	1.8	8.0	.83	--	4	--	--	--
SEP										
16...	.03	1.4	1.4	6.3	.59	--	2	--	--	9.5
OCT										
13...	.04	1.7	1.7	7.7	.88	--	--	450	480	--
NOV										
10...	.00	1.8	1.8	8.0	.78	--	--	--	--	--
DEC										
14...	.76	4.9	5.7	25	2.1	1.8	--	--	--	--
JAN , 1977										
17...	1.4	1.8	3.2	14	1.4	1.1	6	830	470	--
FEB										
15...	.52	1.7	2.2	9.8	.77	.77	--	--	--	--
MAR										
15...	.12	1.8	1.9	8.5	.38	.36	--	--	--	--
APR										
12...	.11	1.9	2.0	8.9	.58	.35	5	2400	590	18
MAY										
09...	.04	3.2	3.2	14	1.5	1.0	--	--	--	--
JUN										
07...	.02	14	14	62	2.5	2.2	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
16...	10	.0	3	6.7	9.6	2.4	.0	.3	.0	.0	.0	.0
AUG , 1977												
11...	9	.0	17	48	25	3.4	.0	.4	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
16...	.0	.0	.0	.0	.0	.0	0	.0	.01	.01	.01
AUG , 1977											
11...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

07074700 VILLAGE CREEK NEAR NEWPORT, AR

LOCATION.--Lat 35°35'34", long 91°14'28", in NE¼NW¼ sec.18, T.11 N., R.2 W., Jackson County, Hydrologic Unit 11010013, at bridge on State Highways 14 and 17, 3.5 mi (5.6 km) downstream from Locust Creek, and 1.0 mi (1.6 km) southeast of Newport.

PERIOD OF RECORD.--July 1976 to June 1977

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	OIL-GREASE (SEVERITY) (01300)	GAS BUBBLES (SEVERITY) (01310)	FLOATING SLUDGE (SEVERITY) (01315)	ATMOSPHERIC ODOR (SEVERITY) (01330)	DEAD FISH (SEVERITY) (01340)	FLOATING DEBRIS (SEVERITY) (01345)	TURBIDITY (SEVERITY) (01350)	FLOATING OR SOLID ICE COVER (SEVERITY) (01355)
JUL , 1976										
20...	1028	1028	0	0	0	0	0	1	1	--
AUG										
19...	1028	1028	0	0	0	0	0	1	1	--
SEP										
16...	1028	1028	0	0	0	4	0	1	1	--
OCT										
13...	1028	1028	0	2	0	0	0	1	2	--
NOV										
10...	1028	1028	0	0	0	0	0	1	2	--
DEC										
14...	1028	1028	0	0	0	0	0	0	1	--
JAN , 1977										
17...	1028	1028	--	--	--	--	--	--	--	3
FEB										
15...	1028	1028	0	0	0	0	0	2	2	--
MAR										
15...	1028	1028	0	0	0	0	0	1	3	--
APR										
12...	1028	1028	0	0	0	0	0	3	4	--
MAY										
09...	1028	1028	0	0	0	0	0	1	2	--
JUN										
07...	1028	1028	0	0	0	0	0	2	2	--

DATE	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)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
JUL , 1976										
20...	38	172	6.9	26.0	26.0	25	5.2	65	69	0
AUG										
19...	41	259	6.9	29.0	23.5	20	5.3	64	120	0
SEP										
16...	77	310	8.0	30.5	22.0	15	7.8	92	120	0
OCT										
13...	22	330	7.5	22.0	16.0	10	7.6	79	150	0
NOV										
10...	60	240	7.3	17.0	10.0	8	8.3	82	86	0
DEC										
14...	18	257	7.6	6.0	5.0	8	9.7	78	100	10
JAN , 1977										
17...	20	300	8.0	-12.0	1.0	10	--	--	110	4
FEB										
15...	181	185	7.2	3.5	5.0	30	8.7	70	58	15
MAR										
15...	774	87	6.5	22.5	15.0	180	7.1	74	27	0
APR										
12...	293	100	7.2	29.0	19.0	130	5.4	60	41	5
MAY										
09...	55	226	7.4	23.0	21.0	85	4.4	50	86	25
JUN										
07...	13	199	7.9	31.5	22.5	35	4.6	54	86	10

07074700 VILLAGE CREEK NEAR NEWPORT, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
JUL , 1976										
20...	18	5.9	7.0	17	.4	2.7	89	0	73	18
AUG										
19...	32	9.1	--	--	--	--	208	0	171	42
SEP										
16...	30	12	--	--	--	--	176	0	144	2.8
OCT										
13...	37	14	16	18	.6	3.4	196	0	161	9.9
NOV										
10...	21	8.2	--	--	--	--	108	0	89	8.7
DEC										
14...	27	8.9	--	--	--	--	115	0	94	4.6
JAN , 1977										
17...	26	10	12	19	.5	5.0	124	0	102	2.0
FEB										
15...	14	5.5	--	--	--	--	52	0	43	5.2
MAR										
15...	6.5	2.5	--	--	--	--	32	0	26	14
APR										
12...	10	4.0	5.4	20	.4	3.5	44	0	36	4.4
MAY										
09...	23	7.0	--	--	--	--	75	0	62	4.8
JUN										
07...	23	6.9	--	--	--	--	93	0	76	1.9

DATE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	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 NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL RESI-DUE (MG/L) (00500)
JUL , 1976										
20...	9.3	3.9	15	120	145	106	.16	12.3	18	163
AUG										
19...	--	--	--	169	183	--	.23	19.1	24	207
SEP										
16...	--	--	--	177	202	--	.24	36.8	24	226
OCT										
13...	8.0	12	17	201	221	204	.27	12.3	15	236
NOV										
10...	--	--	--	151	155	--	.21	24.5	26	181
DEC										
14...	--	--	--	161	166	--	.22	7.95	12	178
JAN , 1977										
17...	13	15	19	207	222	161	.28	11.3	0	222
FEB										
15...	--	--	--	117	294	--	.16	57.2	23	162
MAR										
15...	--	--	--	72	254	--	.10	150	30	284
APR										
12...	8.5	3.7	7.1	72	219	64	.10	57.0	60	279
MAY										
09...	--	--	--	135	204	--	.18	20.0	76	280
JUN										
07...	--	--	--	130	151	--	.18	4.56	39	190

07074700 VILLAGE CREEK NEAR NEWPORT, AR--Continued

WATER QUALITY DATA, JULY 1976 TO JUNE 1977

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L) (70507)	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
JUL , 1976										
20...	.29	.63	.92	4.1	.23	--	--	1600	410	--
AUG										
19...	.17	.56	.73	3.2	.18	--	1	--	--	--
SEP										
16...	.09	.47	.56	2.5	.14	--	3	--	--	7.0
OCT										
13...	.07	.60	.67	3.0	.15	--	--	650	350	--
NOV										
10...	.00	.88	.88	3.9	.14	--	--	--	--	--
DEC										
14...	.06	.57	.63	2.8	.16	.11	--	--	--	--
JAN , 1977										
17...	.33	.34	.67	3.0	.13	.12	1	610	380	--
FEB										
15...	.67	.61	1.3	5.7	.18	.16	--	--	--	--
MAR										
15...	.12	.99	1.1	4.9	.32	.25	--	--	--	--
APR										
12...	.20	1.2	1.4	6.2	.59	.29	6	4100	320	15
MAY										
09...	.55	.96	1.5	6.7	.40	.32	--	--	--	--
JUN										
07...	.17	.79	.96	4.3	.32	.22	--	--	--	--

DATE	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G) (01003)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG) (39351)	DDD IN BOTTOM MA-TERIAL (UG/KG) (39363)	DDE IN BOTTOM MA-TERIAL (UG/KG) (39368)	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG) (39571)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG) (39383)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG) (39393)	ETHION IN BOTTOM MA-TERIAL (UG/KG) (39399)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)
SEP , 1976												
16...	20	.0	6	5.6	6.8	.0	.0	.0	.0	.0	.0	.0
AUG , 1977												
11...	2	.0	0	1.7	.9	.0	.0	.1	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG) (39531)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG) (39481)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG) (39601)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG) (39791)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG) (39541)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG) (39787)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
SEP , 1976											
16...	.0	.0	.0	.0	.0	.0	0	.0	.00	.07	.01
AUG , 1977											
11...	.0	.0	.0	.0	.0	.0	0	.0	--	--	--

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, Hydrologic Unit 11010013, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
18...	9827	9827	--	--	8.3	--	--	--	1.1	--	--
19...	9827	9827	10100	300	--	13.0	--	9.8	--	20	--
NOV											
23...	9827	9827	6630	333	8.1	9.0	0	10.4	4.5	400	--
DEC											
29...	9827	9827	5400	332	8.2	4.0	5	11.5	2.5	120	--
JAN											
27...	9827	9827	--	--	--	--	--	--	--	51	--
FEB											
23...	9827	9827	--	--	--	--	--	--	--	<5	--
MAR											
22...	9827	9827	17900	232	8.1	14.0	40	9.4	2.5	--	--
APR											
26...	9827	9827	27700	217	7.9	19.0	30	8.3	6.1	--	190
MAY											
24...	9827	9827	14800	270	8.1	24.0	10	8.9	6.2	150	150
JUN											
21...	9827	9827	6230	332	8.1	28.0	10	8.9	2.7	--	--
JUL											
26...	9827	9827	8030	298	8.3	28.0	5	8.1	2.7	880	--
AUG											
23...	9827	9827	12400	289	8.3	27.0	10	7.2	4.7	320	--
SEP											
27...	9827	9827	--	--	--	--	--	--	--	10000	--
28...	9827	9827	15900	226	8.0	22.0	40	8.5	4.2	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
18...	--	--	--	--	--	--	3.8	1.2	--	--	--
19...	220	72	--	49	--	23	--	--	180	148	3.0
NOV											
23...	--	--	--	--	--	--	--	--	--	--	5.0
DEC											
29...	--	--	--	--	--	--	--	--	--	--	4.0
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	12
APR											
26...	--	--	--	--	--	--	--	--	--	--	2.0
MAY											
24...	--	--	35	--	15	--	3.0	1.2	--	--	6.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	3.0
JUL											
26...	--	--	--	--	--	--	--	--	--	--	5.0
AUG											
23...	140	--	28	--	15	--	3.2	1.8	--	--	2.0
SEP											
27...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	4.0

07074850 WHITE RIVER NEAR AUGUSTA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
19...	7.0	172	14	.17	--	--	.03	18	<10	<3	20	310
NOV												
23...	5.5	194	12	.11	--	--	.05	--	--	--	--	--
DEC												
29...	6.5	182	22	<.10	--	--	.05	--	--	--	--	--
MAR												
22...	4.5	155	111	.22	<.10	<.10	.18	--	--	--	--	--
APR												
26...	4.0	143	110	.25	<.05	<.10	.18	--	--	--	--	--
MAY												
24...	5.0	159	63	.13	.01	--	.12	--	<10	--	20	1900
JUN												
21...	6.0	187	63	.12	.01	.12	.06	--	--	--	--	--
JUL												
26...	5.5	--	42	.05	.00	.07	.05	--	--	--	--	--
AUG												
23...	5.0	179	86	.08	<.05	.06	.08	--	<10	<5	40	1900
SEP												
28...	5.0	165	185	.22	<.05	.13	.23	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
19...	40	80	<.5	<10	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
29...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	<10	160	--	20	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	<10	260	--	40	--	--	--	--	--	--	--	--
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010014, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
13...	9827	9827	--	1.4	119	7.6	20.0	5	8.5	2.4	20	8
NOV												
17...	9827	9827	--	25	96	7.4	12.0	5	11.7	2.7	100	--
DEC												
21...	9827	9827	--	46	87	7.4	4.0	5	11.5	1.6	<10	--
FEB												
16...	9827	9827	227	--	89	7.5	4.0	10	12.7	2.4	<10	--
MAR												
21...	9827	9827	227	--	76	7.6	12.0	5	10.7	1.7	--	--
APR												
20...	9827	9827	292	--	79	7.3	18.0	10	8.5	2.5	--	--
MAY												
18...	9827	9827	67	--	88	7.6	25.0	5	8.1	1.2	10	--
JUN												
15...	9827	9827	--	6.9	99	7.5	27.0	15	8.7	2.8	--	--
JUL												
18...	9827	9827	4.4	--	109	7.7	31.0	5	7.9	--	35	--
AUG												
09...	9827	9827	6.7	--	136	7.9	29.0	5	8.7	4.0	83	--
SEP												
19...	9827	9827	48	--	84	7.3	25.0	0	9.0	2.1	31	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT												
13...	68	16	--	24	--	2.0	2.7	1.1	53	--	52	4.0
NOV												
17...	--	--	--	--	--	--	--	--	--	--	--	6.0
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	11
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	13
MAR												
21...	39	13	--	14	--	1.0	--	--	32	0	26	8.0
APR												
20...	--	--	--	--	37	--	--	--	--	--	--	6.0
MAY												
18...	--	--	--	--	--	--	--	--	--	--	--	6.0
JUN												
15...	--	--	14	--	2.0	--	2.7	.9	--	--	--	3.0
JUL												
18...	--	--	--	--	--	--	--	--	--	--	--	5.0
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	5.0
SEP												
19...	32	--	9.0	--	2.0	--	3.0	1.4	--	--	--	10

07074990 MIDDLE FORK LITTLE RED RIVER NEAR SHIRLEY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT 13...	5.5	70	7	<.10	--	--	.06	<3
NOV 17...	3.5	57	1	<.10	--	--	.02	--
DEC 21...	4.0	73	1	<.10	--	--	.02	--
FEB 16...	4.0	67	12	<.10	--	--	.01	--
MAR 21...	4.5	48	4	<.10	<.10	<.10	.04	--
APR 20...	3.0	51	14	<.10	<.10	<.10	.03	--
MAY 18...	4.5	56	10	.01	<.01	.16	.02	--
JUN 15...	3.5	61	9	<.05	<.05	<.05	--	--
JUL 18...	4.5	73	13	--	.01	.20	.08	--
AUG 09...	9.0	88	11	<.05	<.05	.12	.05	--
SEP 19...	4.0	78	6	<.05	<.05	--	.03	--

DATE	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)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT 13...	<10	<3	<10	240	90	65	<.5	<10
NOV 17...	--	--	<10	200	70	40	--	10
DEC 21...	--	--	<10	230	50	<27	--	10
FEB 16...	--	--	<10	310	90	100	--	<10
MAR 21...	<10	<3	190	100	<10	<27	--	20
APR 20...	--	--	<10	360	--	--	--	<10
MAY 18...	--	--	<10	570	10	72	--	40
JUN 15...	<10	<3	<10	350	20	63	--	20
JUL 18...	--	--	60	270	30	130	--	40
AUG 09...	--	--	10	320	10	68	--	10
SEP 19...	<10	<5	30	410	10	210	--	50

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, Hydrologic Unit 11010014, 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.--38 years, 466 ft^3/s (13.2 m^3/s), 20.95 in/yr (532 mm/yr), 337,600 acre-ft/yr (416 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.--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. 3	2230	8,970	254	15.15	4.618
Mar. 28	0300	*48,300	1,370	26.23	7.995
Sept. 29	1530	7,930	225	14.57	4.441

[1] No flow Oct. 1-7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	58	33	26	128	661	852	178	17	22	26	30
2	.00	47	37	24	113	526	795	207	16	25	21	26
3	.00	42	35	23	113	3550	785	213	15	23	18	23
4	.00	37	33	23	149	4230	637	294	14	30	15	20
5	.00	33	32	23	239	1820	542	251	12	24	13	18
6	.00	33	39	23	282	1010	437	211	11	20	11	18
7	.00	31	86	23	233	740	368	183	9.1	17	9.7	16
8	.10	29	228	23	202	594	315	189	8.1	14	8.7	14
9	.40	27	172	25	175	504	275	640	7.6	11	6.7	17
10	.60	25	139	24	160	420	248	388	7.5	9.7	5.8	16
11	.70	26	188	23	154	387	225	263	6.7	8.5	4.8	13
12	.80	26	309	23	250	1460	199	202	6.4	7.2	7.2	11
13	1.4	26	280	23	399	904	177	162	7.2	6.1	11	13
14	1.6	28	212	30	336	651	158	132	7.3	5.2	18	154
15	2.0	29	172	45	272	544	144	110	7.5	4.3	64	233
16	2.2	27	135	60	227	440	132	93	9.1	3.8	71	147
17	2.4	28	105	65	202	364	120	79	10	3.0	919	97
18	2.8	29	84	65	180	332	120	67	11	2.3	1710	65
19	3.7	30	70	58	162	307	124	57	11	1.6	582	48
20	5.8	30	58	58	145	263	308	50	11	1.4	352	39
21	6.7	29	50	50	130	227	2730	44	11	2.2	254	33
22	7.6	29	45	48	120	199	1510	40	12	3.2	185	30
23	10	29	41	49	389	175	1060	36	13	2.8	135	26
24	29	29	40	49	1300	157	793	33	13	2.5	97	850
25	73	29	37	55	694	144	595	33	13	13	70	579
26	69	33	35	65	819	132	456	31	15	25	53	384
27	50	33	33	96	1670	6620	353	27	16	26	42	347
28	36	33	32	158	934	30600	284	26	16	24	35	333
29	31	33	31	162	---	3680	236	24	18	24	36	4410
30	45	32	30	147	---	1750	204	21	17	38	37	2240
31	64	---	27	150	---	1100	---	19	---	31	35	---
TOTAL	445.80	950	2848	1716	10177	64491	15182	4303	348.5	430.8	4852.9	10250
MEAN	14.4	31.7	91.9	55.4	363	2080	506	139	11.6	13.9	157	342
MAX	73	58	309	162	1670	30600	2730	640	18	38	1710	4410
MIN	.00	25	27	23	113	132	120	19	6.4	1.4	4.8	11
AC-FT	884	1880	5650	3400	20190	127900	30110	8530	691	854	9630	20330

CAL YR 1976 TOTAL 97959.50 MEAN 268 MAX 5520 MIN .00 AC-FT 194300
WTR YR 1977 TOTAL 115995.00 MEAN 318 MAX 30600 MIN .00 AC-FT 230100

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, Hydrologic Unit 11010014, 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.--16 years, 233 ft^3/s (6.60 m^3/s), 21.38 in/yr (543 mm/yr), 168,800 acre-ft/yr (208 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,700 ft^3/s (926 m^3/s) Mar. 28, 1974, gage height, 26.43 ft (8.056 m); no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (140 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 3	2100	5,710	162	14.93	4.551
Mar. 28	0415	*32,700	926	26.43	8.056

No flow Oct. 1-5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	58	31	38	107	445	533	117	6.0	17	19	13
2	.00	44	28	38	96	367	561	120	5.1	19	14	11
3	.00	36	27	37	98	2340	345	147	4.5	16	12	9.6
4	.00	30	26	36	125	2310	418	132	4.2	14	10	8.8
5	.00	26	24	35	149	990	355	117	3.9	13	8.8	8.0
6	.50	24	35	35	150	658	295	106	3.8	12	8.0	7.6
7	.60	22	172	35	136	482	255	95	3.1	10	7.2	6.8
8	.50	20	176	35	125	383	222	88	2.8	9.6	6.4	6.4
9	.40	18	135	39	115	320	198	85	3.3	8.8	5.8	6.0
10	.40	16	121	36	109	275	176	48	5.4	8.0	6.0	5.7
11	.30	16	206	35	110	273	160	34	6.1	7.6	6.0	5.4
12	.20	16	270	34	215	718	144	26	5.1	7.6	6.1	5.1
13	.20	16	199	35	264	501	132	21	5.5	6.4	5.8	5.5
14	.20	15	158	42	220	391	124	17	6.4	5.4	5.5	7.9
15	.20	16	136	58	188	326	116	14	7.3	4.8	284	9.6
16	.20	16	120	74	163	269	109	12	7.2	4.2	130	9.2
17	.20	15	107	79	150	233	196	10	6.4	3.8	861	9.1
18	.20	14	97	77	137	226	196	8.8	6.8	3.3	668	8.0
19	.40	15	89	66	126	203	241	7.2	6.0	3.0	281	7.6
20	.70	17	81	74	116	178	527	6.0	6.0	2.1	175	7.4
21	.60	17	73	70	109	160	2040	5.1	6.0	2.6	121	6.4
22	.70	17	69	68	104	144	950	4.5	5.6	23	90	6.4
23	1.7	18	64	67	336	132	641	4.5	4.5	42	69	6.0
24	13	18	61	69	667	124	469	4.5	3.3	62	55	516
25	71	17	58	81	423	116	350	4.5	3.3	81	42	477
26	93	18	55	96	698	110	275	4.4	5.4	82	34	208
27	51	22	51	120	819	5990	222	3.6	11	102	26	153
28	36	30	49	140	578	18700	184	3.0	15	81	22	145
29	28	32	46	140	---	2090	154	2.8	17	56	25	1880
30	44	32	44	130	---	1090	150	3.2	13	39	20	938
31	73	---	41	116	---	701	---	4.7	---	27	15	---
TOTAL	417.20	671	2849	2035	6633	41245	10738	1255.8	189.0	773.2	3038.6	4493.5
MEAN	13.5	22.4	91.9	65.6	237	1330	358	40.5	6.30	24.9	98.0	150
MAX	93	58	270	140	819	18700	2040	147	17	102	861	1880
MIN	.00	14	24	34	96	110	109	2.8	2.8	2.1	5.5	5.1
AC-FT	828	1330	5650	4040	13160	81810	21300	2490	375	1530	6030	8910

CAL YR 1976 TOTAL 58836.70 MEAN 161 MAX 2240 MIN .00 AC-FT 116700
WTR YR 1977 TOTAL 74338.30 MEAN 204 MAX 18700 MIN .00 AC-FT 147400

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, Hydrologic Unit 11010014, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	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)
OCT												
13...	9827	9827	--	38	7.2	21.0	5	--	9.0	100	1.5	<5
NOV												
17...	9827	9827	--	48	7.0	13.0	0	--	8.5	80	1.0	30
DEC												
08...	810	--	--	--	--	--	--	72	--	--	--	--
08...	810	1028	.0	--	--	--	--	--	--	--	--	--
08...	810	1028	23	--	--	--	--	--	--	--	1.5	--
08...	810	810	23	<50	6.4	8.5	5	--	9.7	--	--	--
08...	810	1028	92	--	--	--	--	--	--	--	1.2	--
08...	810	810	92	<50	6.5	8.5	10	--	8.9	--	--	--
21...	9827	9827	--	47	7.2	7.0	5	--	9.9	81	1.0	<5
JAN												
17...	9827	9827	--	45	7.2	3.0	0	--	11.0	81	.8	30
FEB												
16...	9827	9827	--	49	7.2	6.0	0	--	12.4	99	2.0	--
MAR												
21...	9827	9827	--	46	7.0	13.0	5	--	11.0	104	1.5	--
30...	810	--	--	--	--	--	--	7.2	--	--	--	--
30...	810	1028	.0	--	--	--	--	--	--	--	--	--
30...	810	1028	25	--	--	--	--	--	--	--	1.9	--
30...	810	810	25	<50	8.3	13.0	170	--	9.6	--	--	--
30...	810	1028	100	--	--	--	--	--	--	--	1.4	--
30...	810	810	100	<50	7.7	9.0	10	--	10.7	--	--	--
APR												
20...	9827	9827	--	40	7.2	19.0	25	--	9.1	97	.4	--
MAY												
18...	9827	9827	--	40	7.4	15.0	5	--	9.1	89	1.3	<5
JUN												
15...	9827	9827	--	44	7.0	27.0	10	--	8.4	104	.8	--
JUL												
18...	9827	9827	--	45	7.2	31.0	0	--	8.1	108	--	45
26...	810	--	--	--	--	--	--	240	--	--	--	--
26...	810	1028	.0	--	--	--	--	--	--	--	--	--
26...	810	1028	26	--	--	--	--	--	--	--	.8	--
26...	810	810	26	<50	7.7	29.0	0	--	7.1	--	--	--
26...	810	1028	104	--	--	--	--	--	--	--	.4	--
26...	810	810	104	50	7.1	13.5	50	--	1.6	--	--	--
AUG												
09...	9827	9827	--	47	7.2	30.0	5	--	8.3	109	1.4	190
SEP												
19...	9827	9827	--	43	6.9	27.0	0	--	7.8	96	.6	840

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	FECAL COLI-FORM (COL. PER 100 ML) (31616)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	TOTAL CAL-CIUM (CA) (MG/L) (00916)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	CALCIUM AS CaCO3 (MG/L) (00910)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL PO-TAS-SIUM (K) (MG/L) (00937)
OCT												
13...	<4	--	<5	26	11	--	6.0	--	--	2.0	1.5	.6
NOV												
17...	<4	--	--	--	--	--	--	--	--	--	--	--
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	1	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	.8
08...	--	--	--	28	--	--	--	12	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	.9
08...	--	--	--	24	--	--	--	10	--	--	--	--
21...	<4	--	--	--	--	--	--	--	--	--	--	--
JAN												
17...	<4	--	<4	--	--	--	--	--	--	--	--	--
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	22	8	--	7.2	--	--	.9	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	500	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	1.3
30...	--	--	--	18	--	--	--	12	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	.9
30...	--	--	--	20	--	--	--	12	--	--	--	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
18...	<4	--	--	--	--	--	--	--	--	--	--	--
JUN												
15...	4	--	--	--	--	4.0	--	--	1.0	--	1.7	.8
JUL												
18...	<4	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	83	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	1.1
26...	--	--	--	14	--	--	--	14	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	1.1
26...	--	--	--	18	--	--	--	14	--	--	--	--
AUG												
09...	20	--	--	--	--	--	--	--	--	--	--	--
SEP												
19...	7	--	--	14	--	4.0	--	--	1.0	--	2.0	1.2

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)
OCT												
13...	18	--	15	2.0	4.5	28	--	<.10	--	--	--	--
NOV												
17...	--	--	--	<3.0	<3.0	29	4	<.10	--	--	--	--
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	2.1	1.6	--	--	--	--	.07	.00	.02
08...	--	--	22	--	--	--	--	--	--	--	--	--
08...	--	--	--	2.3	1.5	--	--	--	--	.06	.00	.18
08...	--	--	24	--	--	--	--	--	--	--	--	--
21...	--	--	--	4.0	3.0	43	11	<.10	--	--	--	--
JAN												
17...	--	--	--	2.0	4.0	36	0	.13	--	--	--	--
FEB												
16...	--	--	--	4.0	3.0	33	9	.14	--	--	--	--
MAR												
21...	17	0	14	5.0	4.0	35	4	.14	<.10	--	<.10	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	6.2	1.7	--	--	--	--	.15	.11	3.0
30...	--	--	12	--	--	--	--	--	--	--	--	--
30...	--	--	--	4.0	2.6	--	--	--	--	.11	.06	.10
30...	--	--	14	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	4.0	25	31	4	<.10	<.10	--	<.10	--
MAY												
18...	--	--	--	4.0	3.5	25	3	.02	.01	--	.17	--
JUN												
15...	--	--	--	3.0	3.5	34	4	.02	<.05	--	<.05	--
JUL												
18...	--	--	--	6.0	4.0	46	2	--	.01	--	.04	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	4.1	1.8	--	--	--	--	.02	.00	.23
26...	--	--	14	--	--	--	--	--	--	--	--	--
26...	--	--	--	3.5	1.6	--	--	--	--	.26	.00	.37
26...	--	--	20	--	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	4.0	4.5	34	5	<.05	<.05	--	.16	--
SEP												
19...	--	--	--	8.0	3.5	41	3	<.05	<.05	--	--	--

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	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												
13...	--	--	--	<.01	--	--	<3	<10	<3	20	20	40
NOV												
17...	--	--	--	<.01	--	--	--	--	--	10	110	50
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	.02	.09	.40	.01	.00	70	1	--	0	70	200	<100
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	.18	.24	1.1	.02	.01	170	1	--	0	100	550	<100
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	<.01	--	--	--	--	--	<10	70	560
JAN												
17...	--	--	--	.02	--	--	--	--	--	--	--	--
FEB												
16...	--	--	--	<.01	--	--	--	--	--	<10	100	20
MAR												
21...	--	--	--	.04	--	--	--	<10	<3	150	220	<10
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	3.1	3.3	14	.06	.06	820	2	--	0	10	1700	<100
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	.16	.27	1.2	.09	.09	170	0	--	0	30	290	<100
30...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	--	--	--	<.01	--	--	--	--	--	230	260	--
MAY												
18...	--	--	--	.01	--	--	--	--	--	<10	550	<10
JUN												
15...	--	--	--	--	--	--	--	<10	<3	20	130	<10
JUL												
18...	--	--	--	.01	--	--	--	--	--	70	60	30
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	.23	.25	1.1	.02	.00	110	0	--	0	60	40	<100
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	.37	.63	2.8	.02	.01	240	0	--	0	70	630	<100
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	.03	--	--	--	--	--	<10	<30	<10
SEP												
19...	--	--	--	.01	--	--	--	<10	<3	30	100	20

07075638 GREERS FERRY LAKE AT HIGHWAY 92, AT HIGDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL MANGANESE (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 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...	29	<.5	--	<10	--	--	--	--	--	--	--	--
NOV												
17...	110	--	--	10	--	--	--	--	--	--	--	--
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	170	.0	<50	80	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	340	.0	<50	120	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
21...	84	--	--	10	--	--	--	--	--	--	--	--
JAN												
17...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
FEB												
16...	53	--	--	50	--	--	--	--	--	--	--	--
MAR												
21...	56	--	--	30	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	100	.0	<50	40	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	60	.1	<50	70	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
20...	17	--	--	30	--	--	--	--	--	--	--	--
MAY												
18...	12	--	--	10	--	--	--	--	--	--	--	--
JUN												
15...	36	--	--	30	.00	.00	.00	.00	.00	.00	<.05	0
JUL												
18...	94	--	--	40	--	--	.00	--	.00	.00	.00	0
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	10	.0	<50	70	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	870	.2	<50	80	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	43	--	--	<10	--	--	<.01	--	.00	.00	<.01	0
SEP												
19...	35	--	--	40	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010014, 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, 1,411,000 acre-ft (1.74 km^3) Jan. 19, 20, 1977, elevation, 443.71 ft (135.243 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,036,000 acre-ft (2.51 km^3) Apr. 5, elevation, 464.93 ft (141.711 m); minimum, 1,411,000 acre-ft (1.74 km^3) Jan. 19, 20, elevation, 443.71 ft (135.243 m).

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

443	1,393	458	1,817
448	1,527	463	1,974
453	1,668	465	2,038

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1641000	1544000	1450000	1448000	1427000	1504000	2016000	1978000	1897000	1853000	1792000	1770000
2	1634000	1542000	1440000	1447000	1427000	1508000	2022000	1970000	1892000	1852000	1791000	1763000
3	1631000	1541000	1438000	1447000	1430000	1548000	2028000	1964000	1889000	1851000	1789000	1762000
4	1623000	1541000	1437000	1447000	1431000	1580000	2035000	1956000	1885000	1850000	1788000	1761000
5	1621000	1533000	1437000	1447000	1433000	1593000	2034000	1948000	1884000	1845000	1787000	1760000
6	1618000	1533000	1438000	1445000	1435000	1600000	2034000	1940000	1879000	1841000	1786000	1758000
7	1616000	1533000	1438000	1445000	1436000	1608000	2031000	1940000	1879000	1837000	1785000	1755000
8	1614000	1524000	1439000	1445000	1438000	1614000	2028000	1939000	1877000	1840000	1783000	1751000
9	1613000	1516000	1438000	1448000	1432000	1618000	2024000	1934000	1874000	1836000	1782000	1750000
10	1612000	1510000	1439000	1443000	1441000	1621000	2026000	1934000	1870000	1835000	1781000	1749000
11	1604000	1503000	1443000	1438000	1443000	1628000	2028000	1935000	1869000	1834000	1779000	1748000
12	1598000	1494000	1446000	1432000	1447000	1640000	2026000	1935000	1869000	1834000	1781000	1746000
13	1590000	1494000	1447000	1430000	1448000	1648000	2026000	1935000	1865000	1826000	1784000	1748000
14	1583000	1494000	1447000	1431000	1454000	1653000	2025000	1936000	1863000	1820000	1784000	1753000
15	1578000	1486000	1447000	1432000	1456000	1658000	2016000	1936000	1863000	1815000	1783000	1752000
16	1578000	1477000	1447000	1432000	1457000	1661000	2014000	1929000	1862000	1814000	1783000	1752000
17	1576000	1469000	1448000	1426000	1459000	1664000	2012000	1928000	1860000	1813000	1794000	1752000
18	1567000	1469000	1448000	1418000	1461000	1666000	2003000	1923000	1860000	1807000	1801000	1752000
19	1562000	1469000	1450000	1411000	1462000	1669000	1994000	1917000	1859000	1802000	1803000	1752000
20	1552000	1470000	1450000	1413000	1463000	1671000	1991000	1916000	1858000	1798000	1803000	1751000
21	1547000	1469000	1448000	1414000	1463000	1673000	2004000	1916000	1858000	1798000	1804000	1750000
22	1539000	1466000	1449000	1414000	1464000	1673000	2005000	1916000	1857000	1798000	1799000	1749000
23	1540000	1459000	1449000	1416000	1469000	1674000	2008000	1914000	1856000	1797000	1796000	1746000
24	1527000	1457000	1449000	1416000	1474000	1674000	2007000	1909000	1855000	1798000	1793000	1768000
25	1543000	1457000	1450000	1417000	1479000	1674000	2001000	1903000	1854000	1794000	1790000	1774000
26	1544000	1458000	1449000	1419000	1486000	1675000	1994000	1902000	1854000	1795000	1786000	1770000
27	1543000	1458000	1449000	1421000	1492000	1762000	1993000	1901000	1856000	1795000	1785000	1769000
28	1543000	1457000	1449000	1422000	1500000	1966000	1986000	1900000	1856000	1795000	1785000	1768000
29	1541000	1452000	1448000	1422000	---	1991000	1979000	1900000	1854000	1793000	1781000	1802000
30	1544000	1449000	1448000	1422000	---	2002000	1978000	1900000	1852000	1792000	1776000	1812000
31	1544000	---	1448000	1426000	---	2010000	---	1899000	---	1792000	1770000	---
MAX	1641000	1544000	1450000	1448000	1500000	2010000	2035000	1978000	1897000	1853000	1804000	1812000
MIN	1527000	1449000	1437000	1411000	1427000	1504000	1978000	1899000	1852000	1792000	1770000	1746000
(†)	448.61	445.12	445.10	444.27	447.02	464.12	463.12	460.65	459.13	457.15	456.45	457.84
(‡)	-104000	-95000	-1000	-22000	+74000	+510000	-32000	-79000	-47000	-60000	-22000	+42000

CAL YR 1976 MAX 2057000 MIN 1437000 ‡ -196000
WTR YR 1977 MAX 2035000 MIN 1411000 ‡ +164000

† 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
18...	1028	--	--	--	--	--	--	144	--	--	--	--
18...	1028	1028	.0	22	7.9	19.5	--	--	8.6	--	--	--
18...	1028	1028	10	24	7.6	19.5	--	--	8.5	--	--	--
18...	1028	1028	20	24	7.5	19.5	--	--	8.5	--	--	--
18...	1028	1028	30	24	7.5	19.5	--	--	8.4	--	--	--
18...	1028	1028	40	24	7.5	19.5	--	--	8.5	--	--	--
18...	1028	1028	45	25	6.9	18.0	--	--	3.4	--	--	--
18...	1028	1028	50	25	6.8	17.5	--	--	3.3	--	--	--
18...	1028	1028	55	25	6.7	17.0	--	--	3.1	--	--	--
18...	1028	1028	60	26	6.7	16.0	--	--	3.1	--	--	--
18...	1028	1028	70	26	6.7	14.5	--	--	3.3	--	--	--
18...	1028	1028	80	26	6.7	13.5	--	--	3.6	--	--	--
18...	1028	1028	90	26	6.7	12.5	--	--	3.8	--	--	--
18...	1028	1028	100	26	6.7	11.5	--	--	3.7	--	--	--
18...	1028	1028	110	27	6.7	10.0	--	--	3.1	--	--	--
18...	1028	1028	120	28	6.6	9.5	--	--	2.2	--	--	--
18...	1028	1028	130	30	6.6	9.0	--	--	1.0	--	--	--
18...	1028	1028	140	32	6.7	8.5	--	--	.2	--	--	--
NOV												
15...	1028	--	--	--	--	--	--	132	--	--	--	--
15...	1028	1028	.0	22	7.1	13.0	--	--	9.6	--	--	--
15...	1028	1028	10	22	7.1	13.0	--	--	9.5	--	--	--
15...	1028	1028	20	22	7.0	13.0	--	--	9.5	--	--	--
15...	1028	1028	30	23	7.0	13.0	--	--	9.4	--	--	--
15...	1028	1028	40	23	7.0	13.0	--	--	9.4	--	--	--
15...	1028	1028	50	23	6.9	13.0	--	--	9.4	--	--	--
15...	1028	1028	60	23	6.9	13.0	--	--	9.4	--	--	--
15...	1028	1028	70	23	6.9	13.0	--	--	9.4	--	--	--
15...	1028	1028	80	24	6.7	13.0	--	--	8.3	--	--	--
15...	1028	1028	90	25	6.3	12.0	--	--	3.1	--	--	--
15...	1028	1028	100	25	6.2	11.0	--	--	2.6	--	--	--
15...	1028	1028	110	26	6.2	10.5	--	--	1.4	--	--	--
15...	1028	1028	120	30	6.3	10.0	--	--	.3	--	--	--
15...	1028	1028	130	34	6.4	9.5	--	--	.2	--	--	--
15...	1028	1028	137	36	6.5	9.0	--	--	.1	--	--	--
DEC												
07...	810	--	--	--	--	--	--	156	--	--	--	--
07...	810	1028	.0	--	--	--	--	--	--	--	0	--
07...	810	1028	25	44	--	--	--	--	--	1.6	--	--
07...	810	810	25	<50	7.4	10.0	0	--	9.1	--	--	26

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)
DEC												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	.8	--	3.7	1.5	.08	.00	.07	.07	.15	.66	.01
07...	12	--	18	--	--	--	--	--	--	--	--	--

DATE	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											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	.00	70	0	0	80	90	<100	190	.0	<50	90
07...	--	--	--	--	--	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)
DEC												
07...	810	1028	100	47	--	--	--	--	--	.8	--	--
07...	810	810	100	<50	6.6	10.0	0	--	7.7	--	24	12
13...	1028	--	--	--	--	--	--	144	--	--	--	--
13...	1028	1028	.0	25	7.7	10.0	--	--	8.6	--	--	--
13...	1028	1028	10	25	7.6	10.0	--	--	8.5	--	--	--
13...	1028	1028	20	25	7.6	9.5	--	--	8.5	--	--	--
13...	1028	1028	30	26	7.6	9.5	--	--	8.4	--	--	--
13...	1028	1028	40	26	7.6	9.5	--	--	8.4	--	--	--
13...	1028	1028	50	26	7.6	9.0	--	--	8.4	--	--	--
13...	1028	1028	60	26	7.6	9.0	--	--	8.4	--	--	--
13...	1028	1028	70	26	7.5	9.0	--	--	8.4	--	--	--
13...	1028	1028	80	26	7.5	9.0	--	--	8.4	--	--	--
13...	1028	1028	90	26	7.5	9.0	--	--	8.2	--	--	--
13...	1028	1028	100	30	7.4	9.0	--	--	7.5	--	--	--
13...	1028	1028	110	33	7.2	9.0	--	--	2.9	--	--	--
13...	1028	1028	120	36	7.2	9.0	--	--	1.0	--	--	--
13...	1028	1028	130	42	7.2	9.0	--	--	.2	--	--	--
13...	1028	1028	138	43	7.2	8.5	--	--	.1	--	--	--
JAN												
25...	1028	--	--	--	--	--	--	168	--	--	--	--
25...	1028	1028	.0	22	7.9	5.5	--	--	13.4	--	--	--
25...	1028	1028	10	22	7.8	5.5	--	--	13.4	--	--	--
25...	1028	1028	20	22	7.7	5.5	--	--	13.4	--	--	--
25...	1028	1028	30	22	7.7	5.5	--	--	13.4	--	--	--
25...	1028	1028	40	23	7.7	5.5	--	--	13.4	--	--	--
25...	1028	1028	50	23	7.7	5.5	--	--	13.4	--	--	--
25...	1028	1028	60	23	7.6	5.5	--	--	13.3	--	--	--
25...	1028	1028	70	23	7.6	5.5	--	--	13.3	--	--	--
25...	1028	1028	80	23	7.5	5.5	--	--	13.3	--	--	--
25...	1028	1028	90	23	7.5	5.5	--	--	13.4	--	--	--
25...	1028	1028	100	23	7.5	5.0	--	--	13.4	--	--	--
25...	1028	1028	110	23	7.5	5.0	--	--	13.4	--	--	--
25...	1028	1028	120	23	7.4	5.0	--	--	13.5	--	--	--
25...	1028	1028	130	23	7.4	5.0	--	--	13.4	--	--	--
25...	1028	1028	135	23	7.4	5.0	--	--	13.4	--	--	--
FEB												
07...	1028	--	--	--	--	--	--	216	--	--	--	--
07...	1028	1028	.0	21	7.4	5.0	--	--	12.8	--	--	--
07...	1028	1028	10	21	7.4	5.0	--	--	12.8	--	--	--
07...	1028	1028	20	21	7.3	5.0	--	--	12.8	--	--	--

DATE	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)
DEC											
07...	1.2	--	3.9	1.4	.08	.00	.11	.11	.19	.84	.01
07...	--	16	--	--	--	--	--	--	--	--	--

DATE	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											
07...	.00	40	0	0	90	180	<100	480	.3	<50	180
07...	--	--	--	--	--	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
FEB												
07...	1028	1028	30	21	7.3	5.0	--	--	12.8	--	--	--
07...	1028	1028	40	21	7.3	5.0	--	--	12.8	--	--	--
07...	1028	1028	50	21	7.3	5.0	--	--	12.8	--	--	--
07...	1028	1028	60	21	7.3	5.0	--	--	12.7	--	--	--
07...	1028	1028	70	21	7.3	5.0	--	--	12.7	--	--	--
07...	1028	1028	80	21	7.2	5.0	--	--	12.6	--	--	--
07...	1028	1028	90	21	7.2	5.0	--	--	12.6	--	--	--
07...	1028	1028	100	21	7.2	5.0	--	--	12.6	--	--	--
07...	1028	1028	120	22	7.2	5.0	--	--	12.5	--	--	--
07...	1028	1028	130	22	7.2	5.0	--	--	12.5	--	--	--
07...	1028	1028	140	22	7.1	4.5	--	--	12.5	--	--	--
07...	1028	1028	145	22	7.0	4.5	--	--	12.5	--	--	--
MAR												
07...	1028	--	--	--	--	--	--	132	--	--	--	--
07...	1028	1028	.0	24	7.8	8.0	--	--	13.2	--	--	--
07...	1028	1028	10	24	7.8	7.5	--	--	13.1	--	--	--
07...	1028	1028	20	24	7.7	7.5	--	--	13.0	--	--	--
07...	1028	1028	30	24	7.7	7.0	--	--	12.9	--	--	--
07...	1028	1028	40	24	7.7	7.0	--	--	12.8	--	--	--
07...	1028	1028	50	24	7.6	7.0	--	--	12.8	--	--	--
07...	1028	1028	60	24	7.6	6.5	--	--	12.7	--	--	--
07...	1028	1028	70	24	7.6	6.5	--	--	12.6	--	--	--
07...	1028	1028	80	24	7.5	6.0	--	--	12.5	--	--	--
07...	1028	1028	90	24	7.5	6.0	--	--	12.4	--	--	--
07...	1028	1028	100	24	7.5	6.0	--	--	12.3	--	--	--
07...	1028	1028	110	24	7.5	6.0	--	--	12.3	--	--	--
07...	1028	1028	120	24	7.5	5.5	--	--	12.3	--	--	--
07...	1028	1028	130	24	7.5	5.5	--	--	12.3	--	--	--
07...	1028	1028	140	24	7.4	5.5	--	--	12.3	--	--	--
07...	1028	1028	145	24	7.4	5.5	--	--	12.2	--	--	--
30...	810	1028	.0	--	--	--	--	--	--	--	20	--
30...	810	--	--	--	--	--	--	54	--	--	--	--
30...	810	1028	25	--	--	--	--	--	--	1.0	--	--
30...	810	810	25	<50	8.0	12.0	50	--	10.9	--	--	22
30...	810	1028	100	--	--	--	--	--	--	1.4	--	--
30...	810	810	100	<50	7.5	9.0	0	--	11.5	--	--	16
APR												
05...	1028	--	--	--	--	--	--	96	--	--	--	--
05...	1028	1028	.0	22	7.4	13.0	--	--	11.8	--	--	--
05...	1028	1028	10	22	7.4	13.0	--	--	11.8	--	--	--

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)
MAR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	.8	--	4.1	1.6	.08	.02	.07	.09	.17	.75	.09
30...	10	--	14	--	--	--	--	--	--	--	--	--
30...	--	1.2	--	4.5	1.5	.10	.05	.13	.18	.28	1.2	.10
30...	12	--	14	--	--	--	--	--	--	--	--	--
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.09	90	0	0	10	200	<100	10	.0	<50	50
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.10	80	0	0	30	220	<100	30	1.9	<50	120
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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								
05...	1028	1028	20	22	7.4	13.0	--	11.8
05...	1028	1028	30	22	7.4	13.0	--	11.8
05...	1028	1028	40	22	7.4	12.5	--	11.8
05...	1028	1028	50	22	7.4	12.5	--	11.8
05...	1028	1028	60	22	7.3	12.5	--	11.8
05...	1028	1028	70	22	7.3	12.0	--	11.8
05...	1028	1028	80	23	7.3	11.0	--	12.0
05...	1028	1028	85	23	7.2	10.0	--	12.2
05...	1028	1028	90	23	7.2	9.0	--	12.3
05...	1028	1028	100	23	7.2	7.5	--	12.3
05...	1028	1028	105	23	7.2	7.0	--	12.3
05...	1028	1028	110	23	7.2	7.0	--	12.2
05...	1028	1028	120	23	7.1	6.5	--	12.0
05...	1028	1028	130	22	7.1	6.0	--	11.8
05...	1028	1028	140	22	7.1	6.0	--	11.7
05...	1028	1028	150	22	7.1	6.0	--	11.6
05...	1028	1028	155	22	7.1	6.0	--	11.8
MAY								
01...	1028	--	--	--	--	--	114	--
01...	1028	1028	.0	30	7.4	20.5	--	10.8
01...	1028	1028	10	30	7.4	20.5	--	10.8
01...	1028	1028	15	30	7.7	19.0	--	11.2
01...	1028	1028	20	30	7.5	18.5	--	11.2
01...	1028	1028	25	30	7.3	17.0	--	11.6
01...	1028	1028	30	30	7.3	14.0	--	12.1
01...	1028	1028	35	30	7.2	13.0	--	11.8
01...	1028	1028	40	30	7.0	12.0	--	11.2
01...	1028	1028	50	30	7.0	11.5	--	11.1
01...	1028	1028	60	30	7.0	11.5	--	11.0
01...	1028	1028	70	30	6.9	11.5	--	11.0
01...	1028	1028	80	30	6.9	10.5	--	11.1
01...	1028	1028	90	30	6.9	10.0	--	11.4
01...	1028	1028	100	30	6.9	9.5	--	11.6
01...	1028	1028	110	30	6.9	8.5	--	11.6
01...	1028	1028	120	30	6.9	7.5	--	11.4
01...	1028	1028	130	30	6.9	6.5	--	11.2
01...	1028	1028	140	30	6.9	6.5	--	11.1
01...	1028	1028	150	30	6.8	6.5	--	11.0
01...	1028	1028	155	30	6.8	6.0	--	11.0
31...	1028	--	--	--	--	--	108	--
31...	1028	1028	.0	27	7.2	28.0	--	8.4
31...	1028	1028	10	26	7.3	27.5	--	8.4
31...	1028	1028	15	26	7.4	27.0	--	8.5
31...	1028	1028	20	26	7.9	24.5	--	9.8
31...	1028	1028	25	26	7.7	21.5	--	10.4
31...	1028	1028	30	26	7.4	18.0	--	9.8
31...	1028	1028	35	25	7.4	15.0	--	9.9
31...	1028	1028	40	25	7.3	14.0	--	9.6
31...	1028	1028	50	26	7.2	12.5	--	9.4
31...	1028	1028	60	27	7.2	12.0	--	9.4
31...	1028	1028	70	27	7.2	11.5	--	9.5
31...	1028	1028	80	27	7.2	11.0	--	9.6
31...	1028	1028	90	27	7.2	10.5	--	9.8
31...	1028	1028	100	27	7.2	10.0	--	10.0
31...	1028	1028	105	27	7.2	9.0	--	10.4
31...	1028	1028	110	27	7.2	8.0	--	10.3
31...	1028	1028	120	27	7.2	7.5	--	10.2
31...	1028	1028	130	27	7.1	7.5	--	10.0
31...	1028	1028	140	27	7.1	7.5	--	9.7
31...	1028	1028	150	28	7.1	7.0	--	9.5
JUN								
27...	1028	--	--	--	--	--	150	--
27...	1028	1028	.0	30	7.2	27.5	--	8.0
27...	1028	1028	10	30	7.1	27.5	--	7.9
27...	1028	1028	20	30	7.1	27.5	--	7.9
27...	1028	1028	25	31	7.1	27.0	--	8.1
27...	1028	1028	30	29	6.9	18.5	--	9.5
27...	1028	1028	35	28	6.8	16.0	--	9.2
27...	1028	1028	40	28	6.8	14.5	--	8.7
27...	1028	1028	45	29	6.7	13.0	--	8.4
27...	1028	1028	50	30	6.7	12.0	--	8.4
27...	1028	1028	60	30	6.7	11.5	--	8.7
27...	1028	1028	70	30	6.7	11.0	--	8.7
27...	1028	1028	80	30	7.0	10.5	--	9.0
27...	1028	1028	90	30	6.8	9.5	--	9.3
27...	1028	1028	100	30	6.8	8.5	--	9.5
27...	1028	1028	110	30	6.8	8.0	--	9.5
27...	1028	1028	120	30	6.8	7.5	--	9.4
27...	1028	1028	130	30	6.8	7.0	--	9.0
27...	1028	1028	140	30	6.8	7.0	--	8.7

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
JUN												
27...	1028	1028	150	30	6.7	7.0	--	--	8.5	--	--	--
JUL												
26...	1028	--	--	--	--	--	--	126	--	--	--	--
26...	1028	1028	.0	29	6.8	29.5	--	--	8.0	--	--	--
26...	1028	1028	10	29	6.9	29.5	--	--	8.0	--	--	--
26...	1028	1028	15	29	6.9	29.0	--	--	8.0	--	--	--
26...	1028	1028	20	29	6.8	27.0	--	--	8.1	--	--	--
26...	1028	1028	25	28	6.8	22.0	--	--	9.5	--	--	--
26...	1028	1028	30	28	6.8	18.0	--	--	9.4	--	--	--
26...	1028	1028	35	28	6.7	14.5	--	--	9.1	--	--	--
26...	1028	1028	40	28	6.7	13.0	--	--	8.5	--	--	--
26...	1028	1028	50	29	6.7	12.0	--	--	8.3	--	--	--
26...	1028	1028	60	30	6.7	11.0	--	--	8.5	--	--	--
26...	1028	1028	70	29	6.7	10.5	--	--	8.6	--	--	--
26...	1028	1028	80	29	6.8	10.0	--	--	8.9	--	--	--
26...	1028	1028	90	29	6.8	9.5	--	--	9.1	--	--	--
26...	1028	1028	100	30	6.8	8.5	--	--	9.0	--	--	--
26...	1028	1028	110	30	6.8	8.0	--	--	8.8	--	--	--
26...	1028	1028	120	30	6.8	7.5	--	--	8.2	--	--	--
26...	1028	1028	130	30	6.7	7.0	--	--	7.8	--	--	--
26...	1028	1028	140	30	6.7	7.0	--	--	7.5	--	--	--
26...	1028	1028	145	30	6.7	7.0	--	--	7.4	--	--	--
26...	810	--	--	--	--	--	--	180	--	--	--	--
26...	810	1028	.0	--	--	--	--	--	--	--	83	--
26...	810	1028	25	--	--	--	--	--	--	1.0	--	--
26...	810	810	25	<50	6.7	23.5	0	--	8.6	--	--	12
26...	810	1028	100	--	--	--	--	--	--	.6	--	--
26...	810	810	100	<50	6.6	13.0	20	--	8.2	--	--	14
AUG												
22...	1028	--	--	--	--	--	--	168	--	--	--	--
22...	1028	1028	.0	31	7.5	28.5	--	--	8.2	--	--	--
22...	1028	1028	10	31	7.5	28.5	--	--	8.3	--	--	--
22...	1028	1028	20	31	7.4	28.0	--	--	8.2	--	--	--
22...	1028	1028	25	31	7.4	27.5	--	--	8.1	--	--	--
22...	1028	1028	30	31	7.3	23.0	--	--	8.6	--	--	--
22...	1028	1028	35	31	7.3	18.5	--	--	8.5	--	--	--
22...	1028	1028	40	30	7.2	16.0	--	--	8.3	--	--	--
22...	1028	1028	45	30	7.2	13.5	--	--	8.0	--	--	--
22...	1028	1028	50	30	7.1	12.5	--	--	7.9	--	--	--
22...	1028	1028	60	31	7.1	12.0	--	--	7.9	--	--	--

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)
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	.8	--	2.7	1.4	.02	.00	.27	.27	.29	1.3	.01
26...	10	--	14	--	--	--	--	--	--	--	--	--
26...	--	1.2	--	3.5	1.4	.12	.00	.05	.05	.17	.75	.04
26...	12	--	14	--	--	--	--	--	--	--	--	--

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.00	80	0	0	40	20	<100	10	.0	<50	50
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.04	110	0	0	80	110	<100	20	.1	<50	100
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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								
22...	1028	1028	70	32	7.0	11.0	--	7.9
22...	1028	1028	80	32	6.9	10.5	--	8.1
22...	1028	1028	90	32	6.9	9.5	--	8.5
22...	1028	1028	100	32	6.9	9.0	--	8.5
22...	1028	1028	110	33	6.9	8.5	--	8.2
22...	1028	1028	120	33	6.9	8.0	--	7.5
22...	1028	1028	130	33	6.9	7.5	--	7.0
22...	1028	1028	140	33	7.0	7.5	--	6.7
22...	1028	1028	144	33	7.0	7.5	--	6.4
SEP								
12...	1028	--	--	--	--	--	144	--
12...	1028	1028	.0	29	7.6	27.5	--	8.0
12...	1028	1028	10	29	7.5	27.0	--	8.1
12...	1028	1028	20	29	7.4	27.0	--	8.1
12...	1028	1028	25	29	7.4	25.5	--	7.8
12...	1028	1028	30	29	7.3	21.5	--	7.6
12...	1028	1028	35	28	7.2	17.5	--	7.5
12...	1028	1028	40	28	7.1	15.5	--	7.6
12...	1028	1028	45	28	7.1	13.5	--	7.0
12...	1028	1028	50	28	7.0	12.5	--	6.9
12...	1028	1028	60	29	7.0	11.5	--	7.0
12...	1028	1028	70	29	7.0	11.0	--	7.1
12...	1028	1028	80	29	7.0	10.5	--	7.4
12...	1028	1028	90	29	7.0	10.0	--	7.7
12...	1028	1028	100	29	6.9	9.5	--	7.8
12...	1028	1028	110	30	6.9	9.0	--	7.5
12...	1028	1028	120	31	6.9	8.0	--	6.4
12...	1028	1028	130	31	6.9	7.5	--	5.6
12...	1028	1028	140	31	6.8	7.5	--	5.2
12...	1028	1028	147	34	6.8	7.5	--	4.6

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, 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°31'02", long 91°59'50", in NE¼ sec.7, T.10 N., R.9 W., Cleburne County, Hydrologic Unit 11010014, 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-QUALITY RECORDS
(See next page)

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)
OCT											
18...	1028	1028	27	6.7	11.5	--	3.6	--	--	--	--
NOV											
15...	1028	1028	27	6.5	11.5	--	6.0	--	--	--	--
DEC											
08...	810	1028	55	--	--	--	--	1.5	0	--	--
08...	810	810	60	7.5	8.5	10	9.1	--	--	22	18
13...	1028	1028	31	7.4	9.0	--	7.2	--	--	--	--
JAN											
25...	1028	1028	24	7.6	6.0	--	15.3	--	--	--	--
FEB											
07...	1028	1028	22	7.4	5.0	--	14.2	--	--	--	--
MAR											
07...	1028	1028	25	7.5	7.0	--	17.2	--	--	--	--
28...	810	1028	--	--	--	--	--	1.1	2	--	--
28...	810	810	<50	7.8	9.5	20	11.4	--	--	24	10
APR											
05...	1028	1028	23	7.2	8.5	--	12.8	--	--	--	--
MAY											
01...	1028	1028	30	7.2	9.0	--	11.0	--	--	--	--
31...	1028	1028	28	7.2	10.0	--	10.8	--	--	--	--
JUN											
27...	1028	1028	30	7.8	9.0	--	10.0	--	--	--	--
JUL											
26...	1028	1028	31	7.1	10.0	--	11.4	--	--	--	--
26...	810	1028	--	--	--	--	--	.8	8510	--	--
26...	810	810	<50	7.2	9.5	20	9.8	--	--	18	14
AUG											
22...	1028	1028	34	7.2	12.0	--	10.3	--	--	--	--
SEP											
12...	1028	1028	32	7.0	10.5	--	5.2	--	--	--	--

DATE	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											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	.8	--	3.5	1.5	.09	.06	.17	.23	.32	1.4	.05
08...	--	20	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	.8	--	5.9	1.8	.24	.03	.11	.14	.38	1.7	.09
28...	--	14	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.9	--	3.9	1.4	.13	.00	.23	.23	.36	1.6	.00
26...	--	14	--	--	--	--	--	--	--	--	--
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	.03	60	1	0	70	320	<100	1700	.1	<50	90
08...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	.09	70	0	0	<10	220	<100	30	1.2	<50	20
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.00	110	0	0	10	140	<100	40	.0	<50	120
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11010014, 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 1963 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, 21.0°C June 25, 1977; minimum, -0.5°C Dec. 26, 1975, Jan 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.0°C June 25; minimum 6.0°C Dec. 26-28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
13...	9827	9827	6230	42	6.7	15.0	5	4.9	.4	25	20	28
NOV												
17...	9827	9827	6980	48	6.8	12.0	0	6.0	1.0	230	--	--
DEC												
21...	9827	9827	20	45	7.1	6.0	0	10.8	1.1	14	--	--
JAN												
17...	9827	9827	5530	42	7.1	4.0	0	10.5	.6	50	<4	--
FEB												
16...	9827	9827	20	42	7.2	4.0	5	12.7	2.4	48	--	--
MAR												
21...	9827	9827	20	41	6.8	13.0	5	11.0	1.0	--	--	14
APR												
20...	9827	9827	7420	38	6.8	13.0	5	10.8	2.5	--	--	--
MAY												
18...	9827	9827	1680	43	6.9	9.0	0	10.6	1.4	70	--	--
JUN												
15...	9827	9827	20	46	6.8	13.0	5	10.5	1.4	--	--	--
JUL												
18...	9827	9827	20	49	6.9	19.0	0	10.3	--	13	--	--
AUG												
09...	9827	9827	20	50	7.0	16.0	5	8.9	1.0	430	--	--
SEP												
19...	9827	9827	20	177	9.9	19.0	0	9.5	.5	--	--	13
19...	9827	9827	--	--	--	--	--	--	--	500	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	12	--	8.0	--	2.0	1.6	.6	20	--	16	2.0
NOV											
17...	--	--	--	--	--	--	--	--	--	--	3.0
DEC											
21...	--	--	--	--	--	--	--	--	--	--	3.0
JAN											
17...	--	--	--	--	--	--	--	--	--	--	2.0
FEB											
16...	--	--	--	--	--	--	--	--	--	--	4.0
MAR											
21...	0	--	4.3	--	.7	--	--	18	0	15	4.0
APR											
20...	--	--	--	--	--	--	--	--	--	--	3.0
MAY											
18...	--	--	--	--	--	--	--	--	--	--	5.0
JUN											
15...	--	4.0	--	45	--	2.6	.8	--	--	--	6.0
JUL											
18...	--	--	--	--	--	--	--	--	--	--	6.0
AUG											
09...	--	--	--	--	--	--	--	--	--	--	4.0
SEP											
19...	--	3.0	--	1.0	--	28	4.5	--	--	--	6.0
19...	--	--	--	--	--	--	--	--	--	--	--

07076200 LITTLE RED RIVER NEAR WILBURN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT 13...	4.5	32	6	.21	--	--	.09	<3	10	<3	30	130
NOV 17...	2.5	34	4	<.10	--	--	<.01	--	--	--	<10	240
DEC 21...	3.0	42	15	<.10	--	--	<.01	--	--	--	<10	40
JAN 17...	4.0	34	3	.10	--	--	.01	--	--	--	<10	150
FEB 16...	3.5	36	6	.23	--	--	<.01	--	--	--	<10	250
MAR 21...	3.0	31	5	<.10	<.10	<.10	.04	--	<10	<3	60	650
APR 20...	2.5	26	6	.10	<.10	<.10	<.01	--	--	--	90	110
MAY 18...	3.5	29	4	.11	<.01	.15	.03	--	--	--	50	320
JUN 15...	3.0	35	4	.11	<.05	<.05	--	--	<10	5	30	240
JUL 18...	4.0	34	2	.08	.01	.04	.02	--	--	--	80	240
AUG 09...	5.0	33	5	.13	<.05	.16	.02	--	--	--	<10	<30
SEP 19...	7.0	121	4	.10	<.05	--	.02	--	<10	<5	20	230

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	220	--	--	20	--	--	--	--	--	--	--	--
NOV 17...	570	720	<.5	<10	--	--	--	--	--	--	--	--
DEC 21...	180	470	--	50	--	--	--	--	--	--	--	--
JAN 17...	60	120	--	50	.00	.00	.00	.00	.00	.00	.00	0
FEB 16...	<10	88	--	30	--	--	--	--	--	--	--	--
MAR 21...	<10	100	--	<10	--	--	--	--	--	--	--	--
APR 20...	--	59	--	20	--	--	--	--	--	--	--	--
MAY 18...	30	100	--	30	--	--	--	--	--	--	--	--
JUN 15...	10	92	--	30	.00	.00	.00	.00	.00	.00	.00	0
JUL 18...	80	140	--	100	--	--	.00	--	.00	.00	.00	0
AUG 09...	20	74	--	<10	--	--	<.01	--	.00	.00	<.01	0
SEP 19...	20	420	--	30	--	--	--	--	--	--	--	--

07076200 LITTLE RED RIVER NEAR WILBURN, AR--Continued

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

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

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

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, Hydrologic Unit 11010014, 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, 23.5°C July 4, 1977; minimum, 1.0°C Jan 1-4, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C July 4, minimum, 1.0°C Jan 1-4.

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	8.5	6.5	2.0	1.0	---	---	8.0	6.5
2			---	---	8.0	7.0	1.0	1.0	---	---	7.0	6.5
3			---	---	8.0	7.0	1.0	1.0	2.0	1.5	7.0	7.0
4			9.5	9.0	7.0	6.5	1.5	1.0	3.0	1.5	7.0	6.5
5			9.5	8.0	6.5	6.5	1.5	1.5	3.0	2.0	7.0	6.0
6			10.0	9.5	6.5	6.0	1.5	1.5	3.0	2.0	7.0	5.5
7			9.5	9.0	6.0	6.0	4.0	1.5	3.0	2.0	8.0	6.0
8			9.5	8.0	6.0	5.5	3.5	3.0	3.0	1.5	9.0	6.5
9			10.0	9.5	5.5	4.5	3.5	1.5	3.5	2.0	9.5	8.0
10			10.5	10.0	6.5	5.0	1.5	1.5	4.0	3.0	10.5	8.5
11			10.0	9.5	6.5	6.5	3.5	1.5	4.0	3.5	10.5	10.0
12			9.5	9.0	7.0	6.5	4.5	3.5	5.0	4.0	10.5	9.5
13			9.5	9.0	6.5	6.0	4.5	4.0	5.5	4.5	10.5	9.0
14			8.5	7.0	6.0	5.5	---	---	5.0	4.5	11.0	9.5
15			9.0	7.0	6.0	5.5	---	---	4.5	4.0	13.0	10.0
16			10.0	9.0	6.5	5.5	---	---	4.0	3.5	12.0	10.5
17			10.0	9.5	6.5	5.5	---	---	4.5	3.5	11.5	11.0
18			10.0	9.5	6.5	5.5	---	---	5.5	4.0	13.0	11.5
19			10.0	9.5	8.0	6.5	---	---	5.5	5.0	12.0	11.0
20			10.0	9.0	7.0	5.0	---	---	5.5	4.5	12.0	10.0
21			9.0	8.0	5.0	4.0	---	---	5.5	4.5	12.0	10.5
22			8.0	6.5	4.0	3.5	---	---	---	---	12.0	10.0
23			8.5	6.0	4.0	3.5	---	---	---	---	13.0	10.0
24			9.5	8.5	3.5	3.0	---	---	---	---	12.0	11.0
25			9.5	9.0	4.5	4.0	---	---	---	---	13.0	10.5
26			10.0	9.5	4.0	3.5	---	---	---	---	13.5	13.0
27			10.0	8.0	4.0	3.0	---	---	---	---	---	---
28			8.0	5.5	4.0	3.5	---	---	8.0	6.5	---	---
29			5.5	4.5	4.5	3.0	---	---	---	---	13.5	10.0
30			7.0	4.5	4.5	4.0	---	---	---	---	10.0	9.5
31			---	---	4.0	2.0	---	---	---	---	9.5	8.5
MONTH			10.5	4.5	8.5	2.0	4.5	1.0	8.0	1.5	13.5	5.5

07076500 LITTLE RED RIVER AT PANGBURN, AR--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.5	8.5	10.5	9.0	21.5	13.0	18.0	16.5	20.0	19.0	11.5	9.5
2	11.0	9.5	10.0	8.5	21.5	20.5	21.0	16.5	20.5	19.0	11.5	10.0
3	10.5	10.0	9.5	8.0	20.5	14.5	22.0	19.0	20.0	19.0	11.5	9.5
4	11.0	10.0	8.5	8.0	13.0	9.5	23.5	21.0	19.5	16.0	13.5	11.0
5	---	---	9.0	8.5	12.0	10.5	23.0	20.5	16.5	15.0	15.0	13.5
6	---	---	10.0	8.5	11.0	9.0	15.0	10.5	18.5	16.0	16.0	15.0
7	10.0	8.0	9.5	8.5	15.0	11.0	13.0	10.0	19.5	17.0	16.0	13.5
8	9.5	7.0	10.5	8.0	14.0	10.0	12.0	10.0	19.5	18.0	13.5	10.0
9	9.0	7.0	11.5	10.5	15.0	11.0	15.0	12.0	18.5	15.0	11.5	10.0
10	9.0	7.0	11.0	10.5	17.0	14.0	16.5	15.0	15.5	13.5	13.5	11.0
11	12.0	9.0	10.0	8.5	19.5	15.5	19.0	16.0	15.0	13.5	14.0	13.0
12	14.5	11.0	11.5	9.5	15.5	10.0	20.5	18.0	15.5	14.0	15.5	13.5
13	13.0	8.5	14.0	10.5	15.0	11.5	20.5	14.5	16.5	15.0	16.0	15.5
14	11.0	9.0	15.0	13.0	16.5	15.5	14.5	10.5	16.5	15.5	---	---
15	9.5	8.0	17.0	14.0	16.5	13.0	13.0	10.0	17.0	16.0	---	---
16	9.0	6.5	19.0	16.0	14.0	13.0	12.0	9.5	20.0	17.0	---	---
17	10.5	8.5	20.5	11.0	13.5	12.0	15.0	11.5	20.0	19.5	17.0	15.5
18	9.5	7.0	11.5	9.5	14.5	13.5	18.0	15.0	20.0	19.0	18.5	16.5
19	9.0	6.5	13.0	11.0	15.5	14.0	15.0	10.0	20.0	18.5	19.0	18.0
20	8.0	7.0	10.5	9.0	16.5	15.0	11.0	9.5	19.0	18.0	19.0	17.0
21	10.0	7.0	10.0	8.5	17.0	15.5	11.5	9.5	18.5	17.0	18.5	17.0
22	9.0	7.0	13.0	10.0	18.5	16.0	14.0	11.5	19.5	18.0	18.0	16.5
23	8.5	7.0	15.5	13.0	21.5	13.0	15.5	13.5	18.5	10.0	---	---
24	9.0	7.0	17.0	15.0	22.0	20.0	16.0	15.0	12.0	10.0	---	---
25	8.5	7.0	16.5	11.5	21.5	21.0	18.5	16.0	12.0	10.0	---	---
26	8.5	7.0	13.0	9.0	21.0	20.5	18.0	18.0	13.0	10.5	---	---
27	9.5	7.0	12.0	10.0	21.5	19.5	18.0	17.0	12.0	10.0	13.0	10.5
28	10.0	9.0	13.0	10.5	20.5	18.5	18.0	16.5	14.5	12.0	13.0	10.0
29	9.0	8.0	15.0	12.0	15.5	14.0	18.5	16.5	16.5	14.5	14.5	11.0
30	9.5	8.0	18.0	14.0	17.0	14.5	18.5	16.5	16.0	16.0	15.5	14.5
31	---	---	20.0	16.5	---	---	20.0	18.0	11.5	9.5	---	---
MONTH	14.5	6.5	20.5	8.0	22.0	9.0	23.5	9.5	20.5	9.5	19.0	9.5

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, Hydrologic Unit 11010014, 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 mi^2 (4,268 km^2).

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, 30.0°C July 5, minimum, 0.0°C On many days during January 1967, January and February 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.0°C July 5, minimum, 0.0°C on many days during January and February.

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

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

07076620 LITTLE RED RIVER NEAR SEARCY, AR--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.0	11.5			24.0	23.0	25.5	23.5	26.5	25.5	14.0	12.0
2	12.0	11.5			24.0	23.0	26.5	23.5	28.0	25.0	14.0	13.0
3	13.0	12.0			24.0	16.5	29.0	24.5	---	---	14.0	13.5
4	13.0	13.0			16.5	15.5	29.5	25.0	---	---	15.5	13.5
5	13.0	12.0			15.5	14.0	30.0	26.5	---	---	17.0	14.5
6	12.0	11.0			16.5	13.5	28.5	15.5	---	---	18.0	16.5
7	11.5	10.5			17.0	15.0	15.5	14.5	---	---	18.5	18.0
8	11.5	10.5			18.5	15.5	15.0	14.5	---	---	20.5	19.0
9	11.0	10.5			21.0	16.5	18.5	15.0	26.0	25.0	20.0	14.5
10	11.0	11.0			23.5	18.5	21.0	17.0	25.0	23.5	14.5	13.5
11	11.5	11.0			21.0	15.0	24.0	21.0	23.0	20.0	15.5	14.0
12	13.5	13.0			16.5	14.0	28.0	21.0	23.0	19.5	15.5	14.5
13	16.5	16.5			19.0	15.5	26.0	23.0	22.0	20.5	19.0	15.5
14	16.0	14.5			20.0	18.0	25.5	16.0	---	---	18.0	18.0
15	14.0	11.5			20.0	18.0	16.0	14.0	---	---	19.0	18.0
16	---	---			19.0	18.5	14.5	13.5	26.0	23.0	20.5	19.0
17	---	---			19.0	18.0	16.0	13.5	24.5	24.0	21.0	19.5
18	---	---			21.0	18.0	19.0	15.0	25.0	23.5	22.0	20.5
19	---	---			21.0	19.5	19.5	13.5	24.0	23.0	24.5	21.0
20	---	---			21.5	20.5	13.5	12.0	24.5	23.0	23.5	22.0
21	---	---			26.0	21.5	13.5	12.0	25.5	23.0	23.5	22.0
22	---	---			26.5	22.0	15.0	13.5	28.0	24.0	23.0	21.5
23	---	---			28.5	24.0	16.5	14.5	25.0	14.5	23.5	21.0
24	---	---			29.5	25.5	19.0	16.5	14.5	13.5	23.0	21.5
25	---	---			28.5	26.5	26.0	19.0	14.5	14.5	21.5	18.0
26	---	---			26.5	25.5	22.0	22.0	15.0	14.5	20.5	19.0
27	---	---			26.0	25.0	23.0	22.0	15.0	14.0	21.5	20.5
28	---	---			28.0	25.5	24.5	22.0	15.5	14.0	21.5	13.5
29	---	---			26.0	25.0	26.0	22.0	18.0	15.5	14.5	14.0
30	---	---			28.0	24.5	25.0	23.0	19.5	17.0	18.0	13.5
31	---	---			---	---	29.5	24.0	17.0	12.0	---	---
MONTH	16.5	10.5			29.5	13.5	30.0	12.0	28.0	12.0	24.5	12.0

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, Hydrologic Unit 11010014, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
18...	9827	9827	--	7.3	--	--	--	1.1	--	--	--
19...	9827	9827	56	--	11.0	--	9.9	--	300	--	46
NOV											
23...	9827	9827	54	7.3	6.0	5	9.6	1.0	1300	--	--
DEC											
29...	9827	9827	57	7.3	2.0	5	11.9	2.0	1000	--	--
JAN											
27...	9827	9827	--	--	--	--	--	--	5000	--	--
FEB											
23...	9827	9827	59	7.3	9.0	10	12.0	2.2	170	--	--
MAR											
22...	9827	9827	45	7.2	13.0	20	10.1	1.9	--	--	--
APR											
26...	9827	9827	41	7.3	12.0	5	10.6	1.2	210	52	--
MAY											
24...	9827	9827	--	--	--	--	--	--	140	10	--
24...	9827	9827	58	7.2	19.0	15	9.2	1.8	--	--	--
JUN											
21...	9827	9827	54	7.2	25.0	15	8.9	1.9	250	--	--
JUL											
26...	9827	9827	51	7.3	28.0	35	8.2	2.0	3000	--	--
AUG											
23...	9827	9827	52	7.2	26.0	10	8.3	3.0	430	--	20
SEP											
27...	9827	9827	--	--	--	--	--	--	8700	--	--
28...	9827	9827	48	7.1	15.0	10	8.4	.8	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
18...	--	--	--	--	--	--	--	--	--	--
19...	29	--	8.0	--	6.0	2.1	.7	21	17	2.0
NOV										
23...	--	--	--	--	--	--	--	--	--	4.0
DEC										
29...	--	--	--	--	--	--	--	--	--	4.0
JAN										
27...	--	--	--	--	--	--	--	--	--	--
FEB										
23...	--	--	--	--	--	--	--	--	--	3.0
MAR										
22...	--	--	--	--	--	--	--	--	--	5.0
APR										
26...	--	--	--	--	--	--	--	--	--	1.0
MAY										
24...	--	--	--	--	--	--	--	--	--	--
24...	--	4.0	--	2.0	--	3.5	1.1	--	--	5.0
JUN										
21...	--	--	--	--	--	--	--	--	--	2.0
JUL										
26...	--	--	--	--	--	--	--	--	--	4.0
AUG										
23...	--	4.0	--	1.0	--	2.9	1.8	--	--	4.0
SEP										
27...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	3.0

07076634 LITTLE RED RIVER AT JUDSONIA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
19...	7.0	36	20	.12	--	--	.02	<3	<10	<3	<10	170
NOV												
23...	3.5	43	13	.14	--	--	.06	--	--	--	--	--
DEC												
29...	5.0	36	4	.14	--	--	.08	--	--	--	--	--
FEB												
23...	5.5	39	12	.25	--	--	.06	--	--	--	--	--
MAR												
22...	5.0	37	16	.24	<.10	<.10	.07	--	--	--	--	--
APR												
26...	3.0	37	16	.10	.00	<.10	.02	--	--	--	--	--
MAY												
24...	4.5	48	22	.09	.01	--	.02	--	<10	--	<10	920
JUN												
21...	4.0	41	14	.11	.01	.12	.07	--	--	--	--	--
JUL												
26...	4.0	--	17	.18	.01	.28	.07	--	--	--	--	--
AUG												
23...	4.0	38	111	.15	<.05	.26	.15	--	<10	<5	40	2500
SEP												
28...	4.5	46	37	.25	<.05	.18	.09	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
19...	20	130	<.5	<10	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
29...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	30	250	--	40	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	<10	470	--	100	--	--	--	--	--	--	--	--
SEP												
28...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020301, near center of span on downstream side of bridge on U.S. Highway 70, 1.0 mi (1.6 km) northeast of DeValls 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (M) (00078)	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 .7UM-MF (COL./ 100 ML) (31625)
OCT												
27...	9827	9827	265	--	13.0	--	--	9.4	89	--	1100	--
27...	9827	9827	--	8.1	--	10	--	--	--	1.2	--	--
NOV												
15...	9827	9827	210	8.2	9.0	0	--	10.6	91	1.5	270	--
DEC												
14...	9827	9827	273	8.2	5.0	5	--	11.5	90	2.1	320	--
JAN												
24...	9827	9827	--	--	--	--	--	--	--	--	150	--
FEB												
23...	9827	9827	--	--	--	--	--	--	--	--	27	--
MAR												
28...	9827	9827	226	7.9	21.0	120	--	8.9	99	3.9	--	--
APR												
25...	9827	9827	210	7.9	17.0	40	--	8.6	89	2.7	200	--
JUN												
07...	9827	9827	277	8.1	20.0	15	--	7.9	84	2.1	<10	--
27...	9827	9827	176	7.2	25.0	60	--	5.9	70	2.4	--	--
JUL												
19...	9827	9827	--	--	--	--	--	--	--	--	--	--
19...	9827	9827	248	8.2	29.0	--	--	8.3	106	2.3	73	--
AUG												
22...	9827	9827	--	8.3	27.0	--	--	7.9	98	2.9	1500	--
30...	1028	1028	263	8.3	28.5	--	.40	8.5	110	3.0	--	822
SEP												
06...	1028	1028	262	7.6	27.0	--	.40	8.0	101	3.7	--	833
16...	1028	1028	254	8.2	20.5	--	.60	8.1	92	1.7	--	840
23...	1028	1028	260	8.1	25.0	--	.52	7.2	89	3.2	--	833
26...	9827	9827	192	7.8	24.0	50	--	7.1	84	3.8	5600	--
29...	1028	1028	201	7.2	23.5	--	.28	5.2	62	2.9	--	8300

DATE	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML) (31673)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)
OCT												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	--	--	170	47	--	31	--	23	3.5	--	--	--
JAN												
24...	60	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	210	--	82	--	20	--	7.2	--	3.0	--	--	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	13	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	120	140	5	--	33	--	13	--	2.9	4	.1
SEP												
06...	--	8500	130	5	--	30	--	13	--	2.7	4	.1
16...	--	8160	130	5	--	28	--	14	--	3.4	5	.1
23...	--	600	140	12	--	31	--	14	--	2.5	4	.1
26...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	4800	96	6	--	22	--	10	--	2.4	5	.1

07077000 WHITE RIVER AT DEVALLS BLUFF, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL POTASSIUM (K) (MG/L) (00937)	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)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SILICA (SIO2) (MG/L) (00955)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)
OCT												
27...	--	--	--	--	--	--	5.0	6.5	--	--	--	156
27...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	--	--	--	--	--	--	5.0	4.5	--	--	--	121
DEC												
14...	1.5	--	150	0	123	1.5	6.0	5.5	--	--	--	170
JAN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	--	--	--	--	7.0	5.0	--	--	--	208
APR												
25...	1.8	--	--	--	--	--	4.0	4.0	--	--	--	133
JUN												
07...	--	--	--	--	--	--	7.0	6.5	--	--	--	158
27...	--	--	--	--	--	--	16	18	--	--	--	131
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	5.0	5.0	--	--	--	151
AUG												
22...	--	--	--	--	--	--	--	6.0	--	--	--	--
30...	--	1.5	160	0	130	1.3	5.0	3.4	.1	6.7	149	--
SEP												
06...	--	1.7	150	0	120	6.0	5.6	3.8	.1	6.3	132	--
16...	--	2.1	150	0	120	1.5	4.1	5.0	.1	6.9	136	--
23...	--	1.9	150	0	120	1.9	6.5	3.8	.1	7.3	132	--
26...	--	--	--	--	--	--	4.0	6.5	--	--	--	143
29...	--	2.6	110	0	90	11	13	4.5	.1	6.7	106	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	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)	DISSOLVED KJEL. NITROGEN (N) (MG/L) (00623)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
OCT												
27...	--	--	15	.29	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	--	--	15	<.10	--	--	--	--	--	--	--	--
DEC												
14...	--	--	17	<.10	--	--	--	--	--	--	--	--
JAN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	4980	.28	<.10	--	--	--	--	--	--	--
APR												
25...	--	--	82	.18	.01	--	.05	--	--	--	--	--
JUN												
07...	--	--	63	.19	.01	--	.01	--	--	--	--	--
27...	--	--	--	.12	.01	--	.23	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	38	--	.00	--	.08	--	--	--	--	--
AUG												
22...	--	--	36	.17	<.05	--	.65	--	--	--	--	--
30...	144	.20	360	--	--	.01	.03	.86	.89	.35	.90	4.0
SEP												
06...	137	.18	208	--	--	.06	.00	.37	.37	.35	.43	1.9
16...	138	.19	73	--	--	.11	.00	.35	.35	.30	.46	2.0
23...	141	.18	194	--	--	.24	.06	.94	1.0	.61	1.2	5.5
26...	--	--	86	.17	<.05	--	<.05	--	--	--	--	--
29...	116	.14	213	--	--	.22	.06	.39	.45	.93	.67	3.0

07077000 WHITE RIVER AT DEVALLS BLUFF, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L) (00666)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL BARIUM (BA) (UG/L) (01007)	SUS-PENDED BARIUM (BA) (UG/L) (01006)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)
OCT											
27...	.03	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
NOV											
15...	.03	--	--	--	--	--	--	--	--	--	--
DEC											
14...	.06	--	<3	--	--	--	--	--	20	--	--
JAN											
24...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	1.1	--	--	--	--	--	--	--	--	--	--
APR											
25...	.12	--	<10	--	--	--	--	--	<10	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	<10	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	.08	--	--	--	--	--	--	--	--	--	--
30...	.14	.03	2	2	0	100	--	0	10	9	1
SEP											
06...	.11	.00	1	1	0	200	--	0	<10	<9	1
16...	.09	.02	1	1	0	100	100	0	<10	<10	0
23...	.30	.02	4	3	1	100	--	0	<10	10	0
26...	--	--	--	--	--	--	--	--	--	--	--
29...	.15	.05	5	5	0	0	--	0	<10	<10	0

DATE	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 (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)
OCT												
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	<3	--	--	--	--	--	<10	--	--	190	--	20
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	<3	--	--	--	--	--	<10	--	--	1700	--	--
JUL												
19...	<10	--	--	--	--	--	<10	--	--	--	--	<10
AUG												
30...	0	0	0	<50	<50	0	20	17	3	9000	0	<100
SEP												
06...	30	30	0	<50	<50	0	60	54	6	3700	10	<100
16...	20	20	0	<50	<50	0	<10	<6	4	1600	50	<100
23...	10	10	0	<50	50	0	120	110	6	8800	20	<100
29...	20	20	0	<50	<50	0	50	41	9	3900	40	<100

DATE	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)	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)
OCT											
27...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	--	--	<27	--	--	<.5	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	--	--	190	--	--	--	--	--	--	--	--
JUL											
19...	--	--	110	--	--	--	--	--	--	--	--
AUG											
30...	<100	0	880	880	0	.0	.0	.0	0	0	0
SEP											
06...	<96	4	860	830	30	.1	.1	.0	0	0	0
16...	<99	1	170	160	10	.0	.0	.0	0	0	0
23...	100	0	1100	1100	40	.3	.3	.0	0	0	0
29...	<99	1	370	370	0	.0	.0	.0	0	0	0

07077000 WHITE RIVER AT DEVALLS BLUFF, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL SILVER (AG) (UG/L) (01077)	SUS-PENDED SILVER (AG) (UG/L) (01076)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLOR-DANE (UG/L) (39350)
OCT											
27...	--	--	--	--	--	--	--	--	--	.00	--
DEC											
14...	--	--	--	150	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	.00	--
APR											
25...	--	--	--	180	--	--	--	--	--	--	--
JUL											
19...	--	--	--	<10	--	--	--	--	--	--	--
AUG											
30...	<10	--	0	40	40	0	6.3	--	--	--	--
SEP											
06...	<10	--	0	50	50	0	5.0	.0	.00	.00	.0
16...	<10	<10	0	30	20	10	2.5	.0	.00	.00	.0
23...	<10	--	0	50	70	10	4.7	.0	.00	.00	.0
29...	<10	--	<10	30	20	10	5.1	--	--	--	--

DATE	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)	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) (39782)	TOTAL LINDANE (UG/L) (39340)
OCT											
27...	--	.00	.00	--	.00	.00	--	--	--	.00	--
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	.00	.00	--	.00	.00	--	--	--	.00	--
APR											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.00
16...	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.00
23...	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.00
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	TOTAL MIREX (UG/L) (39755)	TOTAL PARA-THION (UG/L) (39540)	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)
OCT											
27...	--	--	.00	--	--	--	0	--	--	--	--
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	.00	--	--	--	0	--	--	--	--
APR											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	.00	.00	.00	.00	.00	.00	0	.00	.03	.02	.00
16...	.00	.00	.00	.00	.00	.00	0	.00	.04	.06	.00
23...	.00	.00	.00	.00	.00	.00	0	.00	.01	.02	.00
29...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020302, 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.--13 years, 820 ft^3/s (23.2 m^3/s), 15.95 in/yr (405 mm/yr) 594,100 acre-ft/yr (733 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, 3,150 ft^3/s (89.2 m^3/s) Mar. 29, gage height, 17.13 ft (5.221 m); minimum, 17 ft^3/s (0.48 m^3/s) Oct. 22, 23, gage height, 2.88 ft (0.878 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	195	28	20	57	145	2740	565	76	471	127	358
2	104	154	27	20	45	104	2630	490	151	391	109	291
3	83	114	27	20	88	797	2510	355	94	491	95	226
4	68	84	28	20	274	2800	2640	199	59	428	87	185
5	56	62	24	20	400	2920	2520	132	49	295	90	162
6	55	47	24	21	305	2710	2130	129	49	188	98	199
7	55	35	26	22	228	2320	1720	107	48	121	109	371
8	52	29	25	21	163	1910	1400	78	40	69	132	449
9	45	26	27	20	93	1470	1200	76	29	52	131	520
10	36	23	31	21	62	1050	1080	69	27	343	178	562
11	32	22	58	21	54	872	997	61	23	755	212	554
12	29	24	95	22	228	2050	931	58	23	641	195	440
13	26	20	168	23	330	2300	866	55	449	383	179	314
14	24	19	157	24	331	1980	797	55	304	252	187	493
15	21	25	116	24	234	1620	739	53	331	172	253	1130
16	22	32	84	22	164	1200	681	52	181	145	403	1350
17	22	25	63	21	113	874	614	50	146	185	516	1300
18	21	22	51	20	82	740	511	44	175	152	665	1060
19	19	20	42	19	64	655	401	46	211	124	766	903
20	18	20	36	19	51	575	318	40	170	141	748	856
21	18	21	31	18	43	451	339	41	137	191	646	729
22	17	20	28	18	40	261	394	46	100	193	540	604
23	18	20	25	18	159	153	2120	74	87	255	452	477
24	129	20	23	18	616	101	2570	256	84	318	311	730
25	429	20	22	18	663	76	1800	441	140	324	210	2020
26	508	24	24	18	442	73	1150	1020	258	381	171	2580
27	320	26	24	20	279	173	876	644	358	329	144	2680
28	197	28	22	22	197	2410	773	425	645	270	126	2690
29	127	26	20	27	---	3130	706	239	670	217	144	2840
30	178	28	20	47	---	3080	635	133	613	179	248	3110
31	228	---	20	63	---	2930	---	88	---	146	391	---
TOTAL	3084	1231	1396	707	5805	41930	38788	6121	5727	8602	8663	30183
MEAN	99.5	41.0	45.0	22.8	207	1353	1293	197	191	277	279	1006
MAX	508	195	168	63	663	3130	2740	1020	670	755	766	3110
MIN	17	19	20	18	40	73	318	40	23	52	87	162
CFSM	.14	.06	.06	.03	.30	1.93	1.85	.28	.27	.40	.40	1.44
IN.	.16	.07	.07	.04	.31	2.23	2.06	.32	.30	.46	.46	1.60
AC-FT	6120	2440	2770	1400	11510	83170	76940	12140	11360	17060	17180	59870

CAL YR 1976 TOTAL 228757 MEAN 625 MAX 3350 MIN 17 CFSM .89 IN 12.14 AC-FT 453700
WTR YR 1977 TOTAL 152237 MEAN 417 MAX 3130 MIN 17 CFSM .60 IN 8.08 AC-FT 302000

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, Hydrologic Unit 08020302, at bridge on State Highway 226, 2.5 mi (4.0 km) west of Cash.

DRAINAGE AREA.--735 mi² (1,904 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
13...	9827	9827	27	--	--	--	--	--	--	200	--	--
14...	9827	9827	25	369	8.2	20.0	20	8.5	4.1	--	--	--
NOV												
17...	9827	9827	26	343	8.2	7.0	55	10.1	2.9	140	--	--
DEC												
08...	9827	9827	26	323	7.9	4.0	20	11.0	2.5	<20	--	130
JAN												
25...	9827	9827	--	--	--	--	--	--	--	15	35	--
FEB												
08...	9827	9827	--	--	--	--	--	--	--	110	420	--
MAR												
08...	9827	9827	2000	83	7.0	10.0	200	8.5	4.6	--	--	9
APR												
12...	9827	9827	980	57	7.0	19.0	400	7.9	4.1	--	--	--
MAY												
24...	9827	9827	270	132	7.2	24.0	100	7.3	6.3	--	4800	--
JUN												
13...	9827	9827	470	116	7.4	25.0	60	4.7	10	--	--	--
28...	9827	9827	680	159	7.4	26.0	200	--	--	4400	3100	--
JUL												
11...	9827	9827	790	148	7.5	26.0	--	6.2	--	5700	--	--
AUG												
01...	9827	9827	130	334	8.1	26.0	35	6.5	2.5	3100	--	--
SEP												
19...	9827	9827	950	146	7.5	25.0	60	6.1	2.6	11000	--	32

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	7.0
NOV											
17...	--	--	--	--	--	--	--	--	--	--	12
DEC											
08...	0	--	34	--	11	18	4.9	170	0	139	7.0
JAN											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	0	--	.2	--	1.9	6.8	7.6	23	0	19	5.0
APR											
12...	--	.4	--	1.6	--	4.6	5.4	--	--	--	7.0
MAY											
24...	--	--	--	--	--	--	--	--	--	--	10
JUN											
13...	--	--	--	--	--	--	--	--	--	--	3.0
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
01...	--	--	--	--	--	--	--	--	--	--	7.0
SEP											
19...	--	3.0	--	4.0	--	8.0	6.7	--	--	--	8.0

07077400 CACHE RIVER NEAR CASH, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
14...	19	248	52	<.10	--	--	.21	--	--	--	<10	1600
NOV												
17...	14	229	--	<.10	--	--	.15	--	--	--	<10	1300
DEC												
08...	17	208	2	.12	--	--	.13	<3	20	<3	<10	1100
MAR												
08...	7.0	350	384	.65	--	--	.62	<3	10	<3	<10	22200
APR												
12...	5.0	306	--	--	--	.54	.61	<10	<10	--	--	--
MAY												
24...	8.5	253	1480	--	.10	2.3	1.5	--	--	--	90	38800
JUN												
13...	6.5	147	--	--	.08	.19	--	--	--	--	20	--
28...	8.0	243	688	1.7	.27	.55	--	--	--	--	<10	--
JUL												
11...	6.0	--	--	.55	.15	.44	--	--	--	--	30	30500
AUG												
01...	8.5	232	138	.45	.03	.22	--	--	--	--	<10	3800
SEP												
19...	13	--	152	.11	<.05	--	.35	--	<10	7	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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	380	--	140	.00	.00	.00	.00	.00	.00	.00	0
NOV												
17...	<10	560	--	120	--	--	--	--	--	--	--	--
DEC												
08...	20	180	<.5	110	--	--	--	--	--	--	--	--
MAR												
08...	<10	580	--	460	--	--	--	--	--	--	--	--
APR												
12...	<10	320	--	--	.00	.00	.00	.00	.00	.01	.00	0
MAY												
24...	--	1800	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	1600	--	160	--	--	--	--	--	--	--	--
28...	--	--	--	70	--	--	--	--	--	--	--	--
JUL												
11...	--	830	--	80	.00	.00	.00	.00	.00	.00	.00	0
AUG												
01...	--	350	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP												
19...	<10	250	--	20	--	--	--	--	--	--	--	--

07077500 CACHE RIVER AT PATTERSON, AR

LOCATION.--Lat 35°16'10", long 91°14'15", in SE¼ sec.31, T.8 N., R.2 W., Woodruff County, Hydrologic Unit 08020302, 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 mi^2 (2,686 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1931, February 1937, August 1937 to September 1960, October 1965 to September 1976 in reports of the Geological Survey. Monthly discharge only for some periods, published in WSP 1311 and WSP 1731. January 1947 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers, Memphis district. Gage-height records July 11, 1916, to Dec. 31, 1931, are contained in reports of National Weather Service.

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

GAGE.--Water-stage recorder. Datum of gage is 182.96 ft (55.766 m) above mean sea level. Prior to Oct. 3, 1966, nonrecording and recording gages at or within 1,000 ft (305 m) of old U.S. Highway 64 crossing, 1.4 mi (2.25 km) downstream as follows: Prior to 1931, nonrecording gage at present datum; January 1937 to Oct. 5, 1949, nonrecording gage; and Oct. 6, 1949, to Dec. 31, 1950, water-stage recorder at mean Gulf level, or 0.24 ft (0.073 m) below mean sea level; Jan. 1, 1950, to Oct. 2, 1966, water-stage recorder at present datum.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--43 years (1927-31, 1937-76), 1,267 ft^3/s (35.9 m^3/s), 917,900 acre-ft/yr (1,130 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft^3/s (374 m^3/s) Jan. 24, 1937, gage height, 13.21 ft (4.026 m), present datum; no flow Oct. 27-30, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 19, 1927, reached a stage of 16.1 ft (4.90 m), present datum, from floodmarks, discharge, 24,500 ft^3/s (694 m^3/s), due to break in White River levee.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 8,600 ft^3/s (244 m^3/s) Mar. 31, gage height, 11.41 ft (3.478 m); minimum, 55 ft^3/s (1.56 m^3/s) Oct. 24.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 4,200 ft^3/s (119 m^3/s) Feb. 24, gage height, 9.98 ft (3.042 m); minimum, 38 ft^3/s (1.08 m^3/s) Nov. 25, gage height, 3.37 ft (1.027 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	240	97	2200	1250	661	3280	7360	3260	842	403	846	1480
2	235	116	1900	998	1200	3330	6220	3070	800	431	880	1370
3	223	131	1630	1640	1560	3210	5800	3590	793	497	910	1260
4	208	169	1350	2080	1630	3000	5480	3850	682	518	950	1200
5	198	247	1080	2230	1870	2670	5220	3400	640	510	980	1240
6	173	570	835	2270	2480	2300	5150	3020	686	414	1020	1310
7	159	1260	697	2460	2620	1920	5320	2960	637	388	1060	1320
8	147	1180	609	2670	2480	1720	5680	2700	694	390	1100	1230
9	136	965	522	2740	2180	1610	6020	2250	686	385	1180	1140
10	124	733	468	3350	1800	1610	6250	1920	612	380	1150	1130
11	115	643	446	4110	1570	1680	6320	1830	1180	287	1150	1120
12	102	974	504	3870	1360	2250	6280	1830	1740	247	1020	1340
13	93	1730	611	3450	1160	3500	6220	1770	1390	311	890	1540
14	85	2020	690	3450	970	3800	6220	1600	809	349	821	1610
15	83	1820	743	3540	817	3730	6080	1500	719	359	780	1670
16	77	1650	802	3470	748	3730	5850	1400	711	370	707	1820
17	70	1510	746	3310	723	3660	5580	1300	723	381	608	2130
18	63	1410	686	2980	661	3800	5300	1220	1110	385	510	2270
19	58	1480	610	2560	559	4550	5080	1150	1540	373	555	2270
20	56	1560	516	2010	465	4700	4850	1090	1780	377	801	2320
21	57	1640	427	1730	425	4650	4620	1040	1780	349	1330	2390
22	59	1720	368	1540	422	4550	4400	950	2180	327	1720	2340
23	59	1820	316	1400	666	4350	4220	870	1820	283	2160	2390
24	62	1930	275	1280	1390	4350	4080	825	1990	251	2560	2560
25	62	2040	247	1150	1600	4250	4130	809	1430	245	2790	2630
26	60	2130	232	1020	1750	4010	4060	772	1060	324	2910	2530
27	57	2060	221	870	2370	3850	3920	739	764	372	2840	2270
28	58	2080	226	780	2980	5180	3780	682	678	444	2580	1940
29	78	2260	362	686	---	6650	3540	682	563	748	2060	1720
30	85	2340	692	567	---	7430	3420	629	427	817	1780	1530
31	87	---	1030	510	---	8270	---	707	---	830	1630	---
TOTAL	3369	40285	22041	65971	39117	117590	156450	53415	31466	12745	42278	53070
MEAN	109	1343	711	2128	1397	3793	5215	1723	1049	411	1364	1769
MAX	240	2340	2200	4110	2980	8270	7360	3850	2180	830	2910	2630
MIN	56	97	221	510	422	1610	3420	629	427	245	510	1120
AC-FT	6680	79910	43720	130900	77590	233200	310300	105900	62410	25280	83860	105300

CAL YR 1974 TOTAL 470259 MEAN 1288 MAX 4520 MIN 56 AC-FT 932800
WTR YR 1975 TOTAL 637797 MEAN 1747 MAX 8270 MIN 56 AC-FT 1265000

07077500 CACHE RIVER AT PATTERSON, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	65	262	3060	2490	3380	1770	185	3300	3110	826	302
2	1190	68	396	3330	2220	2990	1670	212	3660	3080	780	279
3	1030	72	469	3510	1800	2560	1700	223	3770	2480	829	296
4	850	80	559	3430	1580	2160	1730	212	3640	1920	841	274
5	752	87	661	3230	1430	1980	1740	188	3320	1770	950	254
6	616	93	796	2920	1330	1770	1550	167	2880	1660	817	252
7	438	98	980	2540	1210	1650	1320	150	2340	1760	702	284
8	349	111	1070	2200	1080	1850	1100	134	1840	1650	592	281
9	264	130	1110	1850	953	3460	847	121	1560	2060	420	279
10	222	146	1340	1520	844	4070	733	112	1290	2300	355	278
11	186	148	1740	1360	808	3900	620	103	1030	2300	311	274
12	155	137	2450	1220	756	3830	489	81	805	2270	272	290
13	132	118	2560	1090	705	3720	400	67	660	2270	246	269
14	113	96	2700	963	631	3580	349	76	477	2390	241	251
15	99	82	2840	847	542	3370	293	82	367	2440	234	250
16	92	76	2980	797	445	3000	246	90	663	2350	228	249
17	89	73	2860	734	496	2480	218	97	936	2260	228	247
18	83	71	2560	659	1250	1920	190	103	1380	2180	232	238
19	77	67	2230	585	1660	1650	163	109	2760	2080	239	227
20	74	61	1940	530	1730	1450	148	113	2740	1950	255	200
21	72	52	1760	444	2770	1270	147	115	2400	1810	316	190
22	69	44	1600	397	3840	1180	140	115	2090	1720	355	171
23	66	41	1450	353	4150	1200	132	115	2170	1620	364	154
24	63	39	1290	320	4180	1120	173	118	2960	1610	352	148
25	77	38	1250	367	4120	1060	424	122	3360	1390	334	135
26	80	44	1470	680	4030	1060	521	126	3550	1280	331	129
27	75	66	1710	1060	3940	1170	355	140	3520	1260	330	127
28	71	82	1770	1380	3830	1350	240	340	3430	1150	336	120
29	66	92	1800	1750	3660	2010	192	1320	3280	1140	342	116
30	63	139	2200	2300	---	2700	172	1880	3120	1020	333	126
31	62	---	2790	2570	---	2240	---	2650	---	910	315	---
TOTAL	8925	2516	51593	47996	58480	71130	19772	9666	69298	59190	13306	6690
MEAN	288	83.9	1664	1548	2017	2295	659	312	2310	1909	429	223
MAX	1350	148	2980	3510	4180	4070	1770	2650	3770	3110	950	302
MIN	62	38	262	320	445	1060	132	67	367	910	228	116
AC-FT	17700	4990	102300	95200	116000	141100	39220	19170	137500	117400	26390	13270

CAL YR 1975 TOTAL 635136 MEAN 1740 MAX 8270 MIN 38 AC-FT 1260000
WTR YR 1976 TOTAL 418562 MEAN 1144 MAX 4180 MIN 38 AC-FT 830200

07077500 CACHE RIVER AT PATTERSON, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1952 to May 1955, October 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	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))0310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
07...	1028	1028	435	7.1	19.0	9.1	99	--	2.6	B140	320	170
NOV												
03...	1028	1028	--	--	--	--	--	--	--	--	--	--
03...	1028	1028	180	7.1	11.5	7.9	74	--	3.7	--	B37	57
DEC												
01...	1028	1028	275	7.6	6.0	9.6	80	--	2.4	B83	B40	110
JAN												
19...	1028	1028	194	7.2	1.0	--	--	--	3.8	B120	420	70
FEB												
08...	1028	1028	145	6.7	1.5	8.0	59	--	3.3	B67	120	43
MAR												
08...	1028	1028	80	6.7	10.0	9.5	84	52	2.3	B100	660	25
30...	1028	1028	75	6.4	17.0	5.6	60	48	2.6	1300	2600	22
MAY												
03...	1028	1028	65	6.7	19.0	7.0	77	42	2.4	270	320	23
JUN												
02...	1028	1028	125	6.9	24.0	6.1	74	60	5.5	370	1400	40
28...	1028	1028	189	6.8	25.0	5.4	67	53	2.8	390	1600	71
AUG												
16...	1028	1028	362	8.1	27.0	5.3	67	21	3.0	--	580	150
SEP												
13...	1028	1028	295	7.7	24.0	5.7	87	31	2.4	B300	900	120

DATE	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											
07...	0	43	15	21	21	.7	3.3	225	0	185	29
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	12	13	5.9	9.7	26	.6	1.6	54	0	44	6.9
DEC											
01...	4	28	8.6	12	19	.5	5.2	124	0	102	5.0
JAN											
19...	11	18	6.0	11	24	.6	4.9	71	0	58	7.2
FEB											
08...	3	11	3.7	8.2	27	.5	3.7	49	0	40	16
MAR											
08...	10	6.3	2.3	7.7	36	.7	3.2	18	0	15	5.7
30...	1	5.4	2.0	4.1	26	.4	2.9	25	0	21	16
MAY											
03...	7	6.0	2.0	3.8	24	.3	2.7	20	0	16	6.4
JUN											
02...	5	10	3.6	8.9	31	.6	3.3	43	0	35	8.7
28...	0	18	6.3	11	24	.6	2.8	86	0	71	22
AUG											
16...	0	40	13	19	21	.7	2.4	210	0	170	2.7
SEP											
13...	0	30	10	18	24	.7	4.5	160	0	130	5.1

07077500 CACHE RIVER AT PATTERSON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
OCT											
07...	8.7	12	.2	19	242	233	.33	.24	.63	.87	3.9
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	16	13	.1	12	114	98	.16	.20	.84	1.0	4.6
DEC											
01...	12	13	.1	20	181	160	.25	.08	.35	.43	1.9
JAN											
19...	13	14	.1	13	137	115	.19	.57	.27	.84	3.7
FEB											
08...	13	8.8	.1	13	97	86	.13	.72	.67	1.4	6.2
MAR											
08...	13	7.9	.1	6.6	61	56	.08	.28	1.6	1.9	8.3
30...	7.9	3.8	.1	7.1	73	46	.10	.26	2.0	2.3	10
MAY											
03...	7.8	3.2	.1	7.7	68	--	.09	.62	1.3	1.9	8.5
JUN											
02...	14	6.2	.1	12	89	79	.12	.77	2.4	3.2	14
28...	10	5.7	.2	13	111	109	.15	.50	.73	1.2	5.4
AUG											
16...	7.9	8.4	.2	20	212	214	.29	.21	.81	1.0	4.5
SEP											
13...	6.4	9.9	.2	19	175	177	.24	.22	.61	.83	3.7

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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											
07...	.22	4	1	3	<10	<9	1	0	0	0	<50
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	.22	--	--	--	--	--	--	--	--	--	--
DEC											
01...	.20	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.15	1	0	1	<10	<10	0	0	0	0	<50
FEB											
08...	.16	--	--	--	--	--	--	--	--	--	--
MAR											
08...	.52	--	--	--	--	--	--	--	--	--	--
30...	.43	--	--	--	--	--	--	--	--	--	--
MAY											
03...	.23	--	--	--	--	--	--	--	--	--	--
JUN											
02...	.40	--	--	--	--	--	--	--	--	--	--
28...	.30	--	--	--	--	--	--	--	--	--	--
AUG											
16...	.19	--	--	--	--	--	--	--	--	--	--
SEP											
13...	.22	--	--	--	--	--	--	--	--	--	--

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT												
07...	<50	0	10	8	2	1800	20	<100	<99	1	390	190
JAN												
19...	<50	0	10	8	2	1500	140	<100	<98	2	310	20
MAR												
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
28...	--	--	--	--	--	--	--	--	--	--	--	--

07077500 CACHE RIVER AT PATTERSON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT											
07...	200	.0	.0	.0	0	0	0	20	20	0	15
JAN											
19...	290	.1	.0	.1	0	0	0	10	0	10	6.6
MAR											
30...	--	--	--	--	--	--	--	--	--	--	17
JUN											
28...	--	--	--	--	--	--	--	--	--	--	8.4

DATE	TOTAL PCB (UG/L) (39516)	PCB IN BOTTOM MA-TERIAL (UG/KG) (39519)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	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)	TOTAL DDT (UG/L) (39370)
OCT												
07...	.0	0	.00	.00	.0	.0	1	.00	2.2	.00	2.5	.00

DATE	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	TOTAL DI-AZINON (UG/L) (39570)	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)	TOTAL HEPTA-CHLOR (UG/L) (39410)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)
OCT												
07...	.4	.00	.00	.2	.00	.0	.00	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	TOTAL TOX-APHENE (UG/L) (39400)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	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)
OCT											
07...	.0	.00	.00	.00	.00	0	0	.00	.01	.06	.00

07077500 CACHE RIVER AT PATTERSON, AR--Continued

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

PHYTOPLANKTON

DATE	OCT 7,76
TIME	1300
TOTAL CELLS/ML	270
DIVERSITY: DIVISION	0.9
.CLASS	0.9
..ORDER	1.5
...FAMILY	1.8
....GENUS	2.4

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...HYDRODICTYACEAE		
....PEDIASTRUM	*	0
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	44#	16
....MELOSIRA	79#	29
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	9	3
...NAVICULACEAE		
....NAVICULA	9	3
...NITZSCHIACEAE		
....NITZSCHIA	44#	16
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	17	6
....TRACHELOMONAS	70#	26

BENTHIC INVERTEBRATES

DATE	NOV 3,76
TIME	1515
TOTAL COUNT	197
DIVERSITY: PHYLUM	0.0
.CLASS	0.1
..ORDER	0.5
...FAMILY	0.5
....GENUS	0.0
....GENUS-INSECTA	0.0

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.CRUSTACEA	
..AMPHIPODA	
...GAMMARIDAE	
....GAMMARUS	2
.INSECTA	
..DIPTERA	
...CERATOPOGONIDAE	1
...CHIRONOMIDAE	
....BRILLIA	22
....CHIRONOMUS	19
....CORYNONEURA	16
....EUKIEFFERIELLA	45
....MICROPSECTRA	37
....PENTANEURA	6
....PHAENOPSECTRA	10
....POLYPEDILUM	15
....TRISSOCLADIUS	11
..EPHEMEROPTERA	
...HEPTAGENIIDAE	
....STENONEMA	10
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	2
...LEPTOCERIDAE	
....TRIAENODES	1

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, Hydrologic Unit 08020302, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (M) (00078)	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 .7UM-MF (COL./100 ML) (31625)
OCT												
27...	9827	9827	379	7.9	13.0	15	--	8.1	76	3.0	60	--
NOV												
15...	9827	9827	213	7.5	7.0	40	--	7.9	65	2.5	290	--
DEC												
14...	9827	9827	297	7.8	6.0	20	--	9.8	78	2.1	300	--
JAN												
24...	9827	9827	--	--	--	--	--	--	--	--	8	--
FEB												
23...	9827	9827	--	--	--	--	--	--	--	--	25	--
MAR												
28...	9827	9827	84	7.1	21.0	600	--	7.2	80	3.6	--	--
APR												
25...	9827	9827	88	7.0	19.0	300	--	4.6	49	3.6	7000	--
JUN												
07...	9827	9827	173	7.5	20.0	200	--	5.4	58	2.9	<100	--
27...	9827	9827	220	7.6	25.0	120	--	5.9	70	2.5	<20	--
JUL												
19...	9827	9827	232	7.7	29.0	--	--	5.1	65	3.2	--	--
21...	9827	9827	--	--	--	--	--	--	--	--	130	--
AUG												
22...	9827	9827	--	8.0	27.0	--	--	6.2	77	2.6	580	--
30...	1028	1028	268	8.0	27.0	--	.30	5.1	65	1.6	--	822
SEP												
06...	1028	1028	280	7.4	27.5	--	.30	4.8	62	2.4	--	817
15...	1028	1028	285	7.9	21.5	--	.30	6.4	74	2.2	--	8180
22...	1028	1028	280	7.7	24.0	--	--	5.2	63	2.2	--	<33
26...	9827	9827	193	7.4	23.0	70	--	4.8	55	1.9	8800	--
28...	1028	1028	153	7.3	24.0	--	--	5.7	70	2.8	--	878

DATE	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML) (31673)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)
OCT												
27...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	--	--	150	27	--	34	--	17	18	--	--	--
JAN												
24...	180	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	7800	--	16	--	1.0	--	.6	--	5.3	--	--	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
27...	3100	--	--	--	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	6.0	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	850	100	0	--	27	--	8.8	--	15	23	.6
SEP												
06...	--	180	95	0	--	24	--	8.6	--	16	26	.7
15...	--	1200	110	0	--	29	--	9.3	--	16	23	.7
22...	--	8100	100	0	--	26	--	8.5	--	14	22	.6
26...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	1800	57	7	--	15	--	4.7	--	8.6	23	.5

07077600 CACHE RIVER AT BRASFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL POTASSIUM (K) (MG/L) (00937)	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)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SILICA (SIO2) (MG/L) (00955)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)
OCT												
27...	--	--	--	--	--	--	4.0	26	--	--	--	232
NOV												
15...	--	--	--	--	--	--	15	17	--	--	--	166
DEC												
14...	2.9	--	150	0	123	3.8	7.0	23	--	--	--	209
JAN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	--	--	--	--	8.0	6.0	--	--	--	326
APR												
25...	4.1	--	--	--	--	--	6.0	5.0	--	--	--	241
JUN												
07...	--	--	--	--	--	--	16	11	--	--	--	222
27...	--	--	--	--	--	--	8.0	16	--	--	--	194
JUL												
19...	--	--	--	--	--	--	7.0	14	--	--	--	174
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	--	--	--	--	--	--	--	16	--	--	--	--
30...	--	3.7	140	0	110	2.2	5.2	9.7	.1	18	168	--
SEP												
06...	--	3.7	140	0	110	8.9	5.1	13	.2	18	155	--
15...	--	3.7	150	0	120	3.0	3.9	13	.1	17	158	--
22...	--	4.4	130	0	110	4.2	6.0	14	.1	16	142	--
26...	--	--	--	--	--	--	5.0	16	--	--	--	162
28...	--	4.1	61	0	50	4.9	5.2	14	.1	13	99	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	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)	DISSOLVED KJELDAHL NITROGEN (N) (MG/L) (00623)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL NITROGEN (NO3) (MG/L) (71887)
OCT												
27...	--	--	14	.28	--	--	--	--	--	--	--	--
NOV												
15...	--	--	14	.10	--	--	--	--	--	--	--	--
DEC												
14...	--	--	5	<.10	--	--	--	--	--	--	--	--
JAN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	51	.17	.11	--	--	--	--	--	--	--
APR												
25...	--	--	90	.10	.08	--	.34	--	--	--	--	--
JUN												
07...	--	--	38	.35	.08	--	.23	--	--	--	--	--
27...	--	--	--	.36	.05	--	.29	--	--	--	--	--
JUL												
19...	--	--	46	.38	.06	--	.22	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	--	--	32	.21	<.05	--	.26	--	--	--	--	--
30...	157	.23	93	--	--	1.2	.05	.70	.75	.64	2.0	8.6
SEP												
06...	158	.21	42	--	--	.17	.05	1.3	1.4	.45	1.6	7.0
15...	166	.21	152	--	--	.22	.04	.78	.82	.51	1.0	4.6
22...	154	.19	31	--	--	.16	.07	.28	.35	--	.51	2.3
26...	--	--	33	.10	<.05	--	.05	--	--	--	--	--
28...	95	.13	27	--	--	.09	.12	.35	.47	.47	.56	2.5

07077600 CACHE RIVER AT BRASFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L) (00666)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL BARIUM (BA) (UG/L) (01007)	SUS-PENDED BARIUM (BA) (UG/L) (01006)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)
OCT											
27...	.06	--	--	--	--	--	--	--	--	--	--
NOV											
15...	.11	--	--	--	--	--	--	--	--	--	--
DEC											
14...	.03	--	<3	--	--	--	--	--	<10	--	--
JAN											
24...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	.24	--	--	--	--	--	--	--	--	--	--
APR											
25...	.45	--	<10	--	--	--	--	--	<10	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	<10	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
22...	.14	--	--	--	--	--	--	--	--	--	--
30...	.16	.08	1	0	1	200	--	0	<10	9	1
SEP											
06...	.09	.06	1	0	1	400	--	0	10	7	3
15...	.32	.06	3	3	0	100	0	100	<10	<10	0
22...	.16	.07	2	1	1	200	--	200	<10	<9	1
26...	--	--	--	--	--	--	--	--	--	--	--
28...	.15	.08	1	0	1	0	--	0	<10	<10	0

DATE	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 (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)
OCT												
27...	--	--	--	--	--	--	30	--	--	1200	--	--
NOV												
15...	--	--	--	--	--	--	20	--	--	2000	--	--
DEC												
14...	<3	--	--	--	--	--	<10	--	--	1100	--	50
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	--	--	--	--	<10	--	--	5400	--	--
APR												
25...	<3	--	--	--	--	--	<10	--	--	5800	--	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	<10	--	--	--	--	--
JUL												
19...	<10	--	--	--	--	--	<10	--	--	--	--	<10
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--
30...	40	40	0	<50	50	0	20	9	11	1400	50	<100
SEP												
06...	10	10	0	<50	<49	1	20	15	5	1400	330	<100
15...	20	20	0	<50	<50	0	<10	<6	4	5700	40	<100
22...	10	10	0	<50	<50	0	<10	<5	5	1600	110	<100
26...	--	--	--	--	--	--	50	--	--	2500	--	--
28...	10	0	10	<50	<50	0	10	2	8	1500	80	<100

07077600 CACHE RIVER AT BRASFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	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)
OCT											
27...	--	--	550	--	--	--	--	--	--	--	--
NOV											
15...	--	--	200	--	--	--	--	--	--	--	--
DEC											
14...	--	--	630	--	--	.6	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	--	--	220	--	--	--	--	--	--	--	--
APR											
25...	--	--	300	--	--	--	--	--	--	--	--
JUN											
07...	--	--	440	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	500	--	--	--	--	--	--	--	--
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
30...	100	0	130	60	120	.0	.0	.0	0	0	0
SEP											
06...	<94	6	210	100	110	.0	.0	.0	2	1	1
15...	<100	0	460	330	130	.0	.0	.0	0	0	0
22...	<99	1	180	100	80	.0	.0	.0	0	0	0
26...	--	--	170	--	--	--	--	--	--	--	--
28...	<99	1	100	60	40	.0	.0	.0	0	0	0

DATE	TOTAL SILVER (AG) (UG/L) (01077)	SUS-PENDED SILVER (AG) (UG/L) (01076)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLOR-DANE (UG/L) (39350)
OCT											
27...	--	--	--	<10	--	--	--	--	--	.00	--
NOV											
15...	--	--	--	<10	--	--	--	--	--	--	--
DEC											
14...	--	--	--	150	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	.00	--
MAR											
28...	--	--	--	40	--	--	--	--	--	--	--
APR											
25...	--	--	--	50	--	--	--	--	--	--	--
JUN											
07...	--	--	--	30	--	--	--	--	--	--	--
27...	--	--	--	<10	--	--	--	--	--	.00	--
JUL											
19...	--	--	--	<10	--	--	--	--	--	.00	--
AUG											
22...	--	--	--	--	--	--	--	--	--	.00	--
30...	<10	--	0	40	30	10	6.0	--	--	--	--
SEP											
06...	<10	--	0	180	160	20	7.0	.0	.00	.00	.0
15...	<10	<10	0	40	30	10	6.6	.0	.00	.00	.0
22...	<10	--	0	30	20	10	5.7	--	--	--	--
26...	--	--	--	20	--	--	--	--	--	--	--
28...	<10	--	0	20	10	10	7.1	.0	.00	.00	.0

07077600 CACHE RIVER AT BRASFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	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) (39782)	TOTAL LINDANE (UG/L) (39340)
OCT											
27...	--	.00	.00	--	.00	.00	--	--	--	.00	--
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	.00	.01	--	.00	.00	--	--	--	.00	--
MAR											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	.00	.01	--	.00	.00	--	--	--	.00	--
JUL											
19...	--	.00	.00	--	.00	.00	--	--	--	.00	--
AUG											
22...	--	.00	.00	--	.00	.01	--	--	--	.00	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.00
15...	.00	.00	.00	.00	.00	.01	.00	.00	.00	--	.00
22...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.00

DATE	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)	TOTAL MIREX (UG/L) (39755)	TOTAL PARA-THION (UG/L) (39540)	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)
OCT											
27...	--	--	.00	--	--	--	0	--	--	--	--
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	.00	--	--	--	0	--	--	--	--
MAR											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	.00	--	--	--	0	--	--	--	--
JUL											
19...	--	--	.00	--	--	--	0	--	--	--	--
AUG											
22...	--	--	.04	--	--	--	0	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	.00	.00	.00	.00	.00	.00	0	.00	.04	.09	.00
15...	.00	.00	.01	.00	.00	.00	0	.00	.03	.06	.00
22...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
28...	.00	.00	.01	.00	.00	.00	0	.00	.02	.03	.00

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, Hydrologic Unit 08020302, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
13...	9827	9827	--	--	--	--	--	--	--	>46000	--	--
14...	9827	9827	--	379	7.4	21.0	30	2.4	24	--	--	--
NOV												
01...	9827	9827	--	--	--	--	--	--	--	--	--	--
17...	9827	9827	6.0	350	7.5	7.0	460	3.8	20	120000	--	--
DEC												
08...	9827	9827	--	187	7.3	4.0	55	5.7	<5.7	46000	--	50
MAR												
08...	9827	9827	--	105	7.1	11.0	120	9.2	8.1	--	--	13
APR												
12...	9827	9827	--	127	7.2	20.0	150	3.9	14	--	--	--
MAY												
24...	9827	9827	--	414	7.3	24.0	120	5.4	>69	36000	--	--
JUN												
13...	9827	9827	67	100	6.7	28.0	140	2.5	25	--	--	--
28...	9827	9827	10	343	7.4	28.0	50	--	--	65000	140	--
JUL												
11...	9827	9827	18	249	7.6	27.0	--	6.1	--	37000	--	--
AUG												
01...	9827	9827	.00	439	7.7	27.0	55	4.8	19	66000	--	--
SEP												
19...	9827	9827	38	397	7.5	25.5	40	.7	30	95000	--	54

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	26
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	21
DEC											
08...	0	--	14	--	4.0	13	4.3	74	0	61	16
MAR											
08...	0	--	1.3	--	2.4	8.4	3.7	29	0	24	8.0
APR											
12...	--	1.6	--	2.5	--	12	3.6	--	--	--	10
MAY											
24...	--	--	--	--	--	--	--	--	--	--	13
JUN											
13...	--	--	--	--	--	--	--	--	--	--	7.0
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	6.0
AUG											
01...	--	--	--	--	--	--	--	--	--	--	24
SEP											
19...	--	8.0	--	7.0	--	35	6.6	--	--	--	21

07077660 BAYOU DEVIEW NEAR GIBSON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
14...	33	243	27	.14	--	--	3.7	--	--	--	<10	1900
NOV												
01...	--	--	--	--	--	--	--	--	--	--	--	--
17...	28	388	63	.33	--	--	5.4	--	--	--	20	14300
DEC												
08...	15	141	41	<.10	--	--	10	<3	30	<3	<10	1300
MAR												
08...	8.5	188	114	.60	--	--	.80	<3	10	<3	<10	7000
APR												
12...	11	141	--	--	--	1.7	.60	<10	<10	--	--	--
MAY												
24...	33	273	272	--	.03	10	1.9	--	--	--	170	3600
JUN												
13...	5.5	170	--	--	.18	.95	--	--	--	--	30	--
28...	29	225	57	--	.01	9.3	--	--	--	--	<10	--
JUL												
11...	17	--	--	.28	.21	37	--	--	--	--	10	10000
AUG												
01...	36	273	36	.01	.01	12	--	--	--	--	<10	2800
SEP												
19...	32	--	82	<.05	<.05	--	1.5	--	<10	<5	<10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	700	--	30	.00	.00	.00	.00	.00	.00	.00	0
NOV												
01...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
17...	--	770	--	300	--	--	--	--	--	--	--	--
DEC												
08...	20	370	<.5	190	--	--	--	--	--	--	--	--
MAR												
08...	20	430	--	420	--	--	--	--	--	--	--	--
APR												
12...	<10	310	--	--	--	--	--	--	--	--	--	--
MAY												
24...	--	1100	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	1200	--	100	--	--	--	--	--	--	--	--
28...	--	--	--	<10	.00	.00	.00	.00	.00	.00	.00	0
JUL												
11...	--	420	--	30	.00	.00	.00	.00	.00	.00	.00	0
AUG												
01...	--	1200	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP												
19...	<10	470	--	10	--	--	--	--	--	--	--	--

07077700 BAYOU DEVIEW AT MORTON, AR

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, Hydrologic Unit 08020302, 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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to May 1973, August 1973 to September 1976 in reports of Geological Survey. February 1939 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers, Memphis district.

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

GAGE.--Water-stage recorder. Datum of gage is 187.71 ft (57.214 m) above mean sea level. Nonrecording gage prior to Nov. 8, 1949. At datum 0.26 ft (0.079 m) below mean sea level prior to Jan. 1, 1952.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--36 years (1940-72, 1974-76), 524 ft^3/s (14.8 m^3/s), 379,600 acre-ft/yr (468 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,700 ft^3/s (190 m^3/s) Nov. 23, 1957, gage height, 18.23 ft (5.557 m); maximum gage height, 18.75 ft (5.715 m) May 2, 1973; no flow at times in most years. Maximum stage since at least 1932, that of May 2, 1973.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 2,890 ft^3/s (81.8 m^3/s) Mar. 30; maximum gage height, 18.08 ft (5.511 m) Apr. 6-10; minimum discharge, 16 ft^3/s (0.45 m^3/s) Oct. 24, gage height, 12.61 ft (3.844 m).

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 2,490 ft^3/s (70.5 m^3/s) June 29; maximum gage height, 17.57 ft (5.355 m) Feb. 24; no flow 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	58	88	567	603	468	1010	2810	802	188	129	208	496
2	56	117	420	680	1050	692	2770	1090	165	76	213	492
3	54	143	281	913	1330	504	2620	1210	142	80	430	430
4	52	171	195	1160	1610	342	2540	1300	107	76	893	361
5	49	198	156	1260	1870	253	2580	1220	79	66	1080	307
6	47	192	151	1160	1980	212	2640	774	68	62	1140	351
7	45	157	152	792	1970	188	2640	605	67	65	1020	595
8	43	66	150	629	1840	167	2620	494	68	79	734	656
9	41	93	125	632	1340	152	2600	467	69	101	530	568
10	38	577	99	920	986	195	2590	443	72	95	386	553
11	36	926	82	1360	747	468	2530	326	171	91	273	591
12	34	972	89	1590	578	1220	2400	261	419	100	206	843
13	32	718	94	1720	462	1970	2180	205	398	125	179	1130
14	30	603	80	1900	366	2260	1860	164	301	140	155	1240
15	27	584	82	1760	263	2370	1440	123	211	144	138	1210
16	26	588	116	1300	203	2380	1200	90	200	127	141	1040
17	24	489	116	923	188	2330	857	65	447	97	367	913
18	23	214	80	634	187	2340	623	56	845	75	597	734
19	21	140	62	507	180	2350	531	49	923	93	635	559
20	20	240	54	435	153	2290	409	44	865	84	778	657
21	19	170	44	346	129	2230	286	39	827	88	897	961
22	18	130	36	256	111	2140	192	38	795	130	936	1060
23	17	90	31	218	369	2010	136	39	604	176	846	957
24	17	160	30	216	1020	1880	93	39	490	186	654	647
25	21	340	39	208	1270	1720	128	44	342	197	529	458
26	26	622	64	187	1360	1490	343	44	240	213	424	290
27	36	1930	80	164	1330	1240	392	47	212	215	343	177
28	43	2020	98	152	1260	1930	267	57	208	256	295	113
29	51	1980	91	138	---	2450	198	86	197	311	280	61
30	59	1080	296	125	---	2620	287	154	189	297	278	47
31	67	---	436	145	---	2790	---	190	---	242	402	---
TOTAL	1130	15798	4396	23033	24620	46193	42762	10565	9909	4216	15987	18497
MEAN	36.5	527	142	743	879	1490	1425	341	330	136	516	617
MAX	67	2020	567	1900	1980	2790	2810	1300	923	311	1140	1240
MIN	17	66	30	125	111	152	93	38	67	62	138	47
AC-FT	2240	31340	8720	45690	48830	91620	84820	20960	19650	8360	31710	36690

CAL YR 1974 TOTAL 214665 MEAN 588 MAX 2560 MIN 17 AC-FT 425800
WTR YR 1975 TOTAL 217106 MEAN 595 MAX 2810 MIN 17 AC-FT 430600

07077700 BAYOU DEVIEW AT MORTON, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	17	818	1590	1370	813	1850	23	1880	1400	247	185
2	35	16	914	1430	1060	622	1740	.00	2020	965	258	199
3	59	21	702	1250	740	503	1130	.00	1670	682	240	234
4	67	37	496	958	589	417	740	.00	1070	697	197	269
5	62	49	347	665	556	618	572	.00	690	1150	140	331
6	52	99	534	556	519	776	441	.00	519	1360	84	339
7	44	67	906	441	408	654	294	.00	376	1400	59	306
8	37	51	1080	335	286	885	195	.00	246	1180	57	290
9	31	40	1070	331	214	1500	111	.00	175	834	58	326
10	28	31	827	216	169	1940	58	.00	99	626	62	392
11	25	24	559	138	136	2140	31	.00	50	429	61	408
12	24	25	394	128	117	2250	12	.00	22	281	57	372
13	23	24	258	136	97	2220	.00	.00	5.0	183	56	298
14	22	23	190	130	62	2120	1.0	.00	.00	135	57	238
15	20	22	276	168	41	1910	.00	.00	.00	95	63	212
16	21	20	549	218	28	1390	.00	.00	191	61	82	181
17	21	19	600	230	56	965	.00	.00	671	52	105	130
18	20	17	483	234	1100	690	.00	.00	951	42	109	84
19	19	17	313	234	1310	577	.00	.00	1560	32	107	57
20	17	17	195	234	1620	441	.00	.00	1940	23	101	39
21	16	17	142	232	1990	433	.00	.00	1930	15	91	19
22	15	17	97	222	2060	503	.00	.00	1400	16	86	3.0
23	15	16	66	204	2060	396	.00	.00	987	20	80	.00
24	15	16	60	214	2020	257	50	.00	1420	23	80	.00
25	25	16	138	663	1990	197	421	.00	1990	18	140	.00
26	30	23	715	1180	1980	160	507	.00	2280	17	195	.00
27	27	65	1100	1350	1830	400	343	91	2390	20	201	.00
28	24	146	1280	1480	1580	634	234	914	2460	20	206	.00
29	21	100	1420	1540	1130	1270	152	1290	2420	15	210	.00
30	19	461	1510	1540	---	1530	62	1480	2070	62	212	.00
31	18	---	1630	1510	---	1710	---	1690	---	195	193	---
TOTAL	889	1513	19669	19757	27118	30921	8944.00	5488.00	33482.00	12048	3894	4912.00
MEAN	28.7	50.4	634	637	935	997	298	177	1116	389	126	164
MAX	67	461	1630	1590	2060	2250	1850	1690	2460	1400	258	408
MIN	15	16	60	128	28	160	.00	.00	.00	15	56	.00
AC-FT	1760	3000	39010	39190	53790	61330	17740	10890	66410	23900	7720	9740

CAL YR 1975 TOTAL 217853.00 MEAN 597 MAX 2810 MIN 15 AC-FT 432100
WTR YR 1976 TOTAL 168635.00 MEAN 461 MAX 2460 MIN .00 AC-FT 334500

07077700 BAYOU DEVIEW AT MORTON, AR--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	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)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
07...	1028	1028	429	7.3	18.5	8.6	94	--	5.0	B100	210	170
NOV												
03...	1028	1028	159	7.2	11.5	4.4	42	--	4.7	--	B33	61
DEC												
01...	1028	1028	230	7.5	5.0	6.6	53	--	4.2	B120	88	80
JAN												
19...	1028	1028	245	7.3	1.0	--	--	--	6.4	B630	560	79
FEB												
08...	1028	1028	140	7.0	1.5	7.4	54	--	4.4	B110	210	39
MAR												
08...	1028	1028	90	6.9	10.0	8.6	76	61	3.2	B270	B340	24
30...	1028	1028	80	6.5	17.0	6.3	67	41	3.6	B530	540	23
MAY												
03...	1028	1028	80	6.9	20.0	--	--	40	4.4	B130	B120	41
JUN												
02...	1028	1028	325	7.2	25.0	4.5	55	48	>7.0	B11	B36	120
28...	1028	1028	257	7.6	25.0	4.4	54	33	3.6	370	1400	100
AUG												
16...	1028	1028	362	8.0	26.5	4.1	52	20	3.8	E1900	3600	150
SEP												
13...	1028	1028	415	7.8	24.0	4.1	50	37	3.9	730	1400	170

DATE	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											
07...	0	44	15	20	20	.7	3.4	215	0	176	17
NOV											
03...	18	15	5.8	9.7	23	.5	7.4	53	0	43	5.4
DEC											
01...	12	20	7.2	11	21	.5	6.8	83	0	68	4.2
JAN											
19...	9	20	7.0	17	30	.8	6.3	85	0	70	6.8
FEB											
08...	8	9.9	3.4	9.1	31	.6	3.7	37	0	30	5.9
MAR											
08...	5	6.0	2.2	6.3	33	.6	3.3	23	0	19	4.6
30...	7	5.6	2.2	5.2	30	.5	2.9	20	0	16	10
MAY											
03...	--	11	3.3	6.2	23	.4	3.2	--	--	--	--
JUN											
02...	11	31	9.7	19	25	.8	4.7	130	0	110	13
28...	9	26	8.4	13	22	.6	2.9	110	0	90	4.4
AUG											
16...	0	41	12	16	18	.6	2.9	200	0	160	3.2
SEP											
13...	0	44	14	23	22	.8	5.2	220	0	180	5.6

07077700 BAYOU DEVIEW AT MORTON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
OCT											
07...	23	14	.2	18	230	244	.31	.01	.93	.94	4.2
NOV											
03...	19	14	.2	13	120	110	.16	.21	.96	1.2	5.2
DEC											
01...	17	16	.1	9.9	157	129	.21	.04	.91	.95	4.2
JAN											
19...	21	20	.1	12	169	147	.23	.69	1.1	1.8	7.9
FEB											
08...	14	11	.1	6.6	96	76	.13	1.0	1.9	2.9	13
MAR											
08...	10	7.4	.1	6.1	99	53	.13	.23	1.7	1.9	8.5
30...	11	6.3	.1	8.1	78	51	.11	.35	2.0	2.4	10
MAY											
03...	11	5.5	.1	7.7	87	--	.12	.62	1.5	2.1	9.4
JUN											
02...	34	17	.1	9.6	198	189	.27	.26	2.1	2.4	10
28...	20	8.5	.2	14	149	147	.20	.66	.98	1.6	7.3
AUG											
16...	14	9.4	.2	20	213	214	.29	.11	.96	1.1	4.7
SEP											
13...	13	20	.3	26	248	254	.34	.09	.84	.93	4.1

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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											
07...	.17	3	1	2	<10	<10	0	10	10	0	50
NOV											
03...	.23	--	--	--	--	--	--	--	--	--	--
DEC											
01...	.21	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.31	2	0	2	<10	<9	1	0	0	0	<50
FEB											
08...	.24	--	--	--	--	--	--	--	--	--	--
MAR											
08...	.35	--	--	--	--	--	--	--	--	--	--
30...	.45	--	--	--	--	--	--	--	--	--	--
MAY											
03...	.19	--	--	--	--	--	--	--	--	--	--
JUN											
02...	.21	--	--	--	--	--	--	--	--	--	--
28...	.31	--	--	--	--	--	--	--	--	--	--
AUG											
16...	.19	--	--	--	--	--	--	--	--	--	--
SEP											
13...	.23	--	--	--	--	--	--	--	--	--	--

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT												
07...	50	0	10	7	3	1900	10	<100	<100	0	520	350
JAN												
19...	<50	0	10	5	5	1200	210	<100	<96	4	1200	100
MAR												
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
28...	--	--	--	--	--	--	--	--	--	--	--	--

07077700 BAYOU DEVIEW AT MORTON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT											
07...	170	.0	.0	.0	0	0	0	20	10	10	16
JAN											
19...	1100	.0	.0	.0	0	0	0	30	10	20	11
MAR											
30...	--	--	--	--	--	--	--	--	--	--	21
JUN											
28...	--	--	--	--	--	--	--	--	--	--	10

DATE	TOTAL PCB (UG/L) (39516)	PCB IN BOTTOM MA-TERIAL (UG/KG) (39519)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG) (39333)	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)	TOTAL DDT (UG/L) (39370)
OCT												
07...	.0	52	.00	.00	.9	.0	9	.00	15	.00	19	.00

DATE	DDT IN BOTTOM MA-TERIAL (UG/KG) (39373)	TOTAL DI-AZINON (UG/L) (39570)	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)	TOTAL HEPTA-CHLOR (UG/L) (39410)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG) (39413)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)
OCT												
07...	8.9	.00	.01	6.8	.00	.0	.00	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG) (39343)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	TOTAL TOX-APHENE (UG/L) (39400)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG) (39403)	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)
OCT											
07...	.0	.00	.00	.00	.00	0	0	.00	.01	.07	.01

07077700 BAYOU DEVIEW AT MORTON, AR--Continued

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

PHYTOPLANKTON

DATE	OCT 7,76
TIME	1130
TOTAL CELLS/ML	4200
DIVERSITY: DIVISION	1.5
.CLASS	1.6
..ORDER	1.8
...FAMILY	2.0
....GENUS	2.2

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	220	5
...SCENEDESMACEAE		
....ACTINASTRUM	*	0
....SCENEDESMUS	320	8
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	2200#	51
....MELOSIRA	270	6
..PENNALES		
...NAVICULACEAE		
....GYROSIGMA	*	0
...NITZSCHIACEAE		
....NITZSCHIA	160	4
.CHRYSOPHYCEAE		
..CHRYSOMONADALES		
...CHROMULINACEAE		
....CHRYSOCOCCUS	54	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.CYANOPHYCEAE		
..CHROCOCCALES		
...CHROCOCCACEAE		
....ANACYSTIS	650#	15
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	380	9
....PHACUS	*	0
....TRACHELOMONAS	*	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, Hydrologic Unit 08020302, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
27...	9827	9827	214	7.5	10.0	40	6.1	4.4	1100	--	--
NOV											
15...	9827	9827	186	7.4	5.0	90	9.0	3.2	460	--	--
DEC											
14...	9827	9827	179	7.4	4.0	60	9.5	1.9	340	--	100
JAN											
24...	9827	9827	--	--	--	--	--	--	95	30	--
FEB											
23...	9827	9827	--	--	--	--	--	--	87	--	--
MAR											
28...	9827	9827	222	7.2	20.0	300	6.1	3.2	--	--	--
APR											
25...	9827	9827	145	7.1	19.0	150	2.6	12	80	--	28
JUN											
07...	9827	9827	181	7.5	19.0	75	2.2	9.2	--	--	--
27...	9827	9827	312	8.2	22.0	20	7.5	2.4	<20	2900	--
JUL											
19...	9827	9827	174	7.7	27.0	--	5.6	2.5	200	--	--
AUG											
22...	9827	9827	--	7.9	24.0	--	6.1	1.2	620	--	--
SEP											
26...	9827	9827	177	7.4	23.0	55	5.3	2.2	3700	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
27...	--	--	--	--	--	--	--	--	--	--	7.0
NOV											
15...	--	--	--	--	--	--	--	--	--	--	26
DEC											
14...	55	--	15	--	16	11	4.2	55	0	45	23
JAN											
24...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	--	--	--	--	--	--	--	--	--	--	7.0
APR											
25...	--	4.7	--	2.0	--	8.1	3.5	--	--	--	4.0
JUN											
07...	--	--	--	--	--	--	--	--	--	--	7.0
27...	--	--	--	--	--	--	--	--	--	--	2.0
JUL											
19...	--	--	--	6.0	--	--	--	--	--	--	7.0
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	5.0

07077750 BAYOU DEVIEW NEAR BRASFIELD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
27...	14	152	4	.15	--	--	.14	--	--	--	--	--
NOV												
15...	16	169	5	.71	--	--	.14	--	--	--	<10	1900
DEC												
14...	15	132	10	<.10	--	--	.10	<3	10	<3	<10	770
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	7.5	222	32	.13	<.10	--	.26	--	--	--	<10	3600
APR												
25...	8.0	141	14	.01	.02	.41	.46	<10	<10	<3	<10	3700
JUN												
07...	11	145	68	.04	.01	.17	--	--	--	--	--	--
27...	7.5	172	--	.04	.01	.09	--	--	--	--	<10	--
JUL												
19...	9.5	153	42	.08	.01	.17	--	--	<10	10	<10	--
AUG												
22...	11	--	25	<.05	<.05	.16	.13	--	--	--	--	--
SEP												
26...	12	137	11	<.05	<.05	<.05	--	--	--	--	20	1000

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	110	--	30	.00	.00	.00	.00	.00	.00	.00	0
NOV												
15...	50	160	--	<10	--	--	--	--	--	--	--	--
DEC												
14...	50	58	1.0	160	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
28...	<10	190	--	120	--	--	--	--	--	--	--	--
APR												
25...	--	1100	--	40	--	--	--	--	--	--	--	--
JUN												
07...	10	2400	--	170	--	--	--	--	--	--	--	--
27...	<10	--	--	<10	.00	.00	.00	.00	.00	.00	.00	0
JUL												
19...	10	410	--	<10	.00	.00	.00	.00	.00	.00	.00	0
AUG												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP												
26...	<10	160	--	20	--	--	--	--	--	--	--	--

07077800 WHITE RIVER AT CLARENDON, AR

LOCATION.--Lat 34°41'08", long 91°18'55", in W½ sec.22, T.1 N., R.3 W., Monroe County, Hydrologic Unit 08020303, 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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to September 1976 in reports of Geological Survey. Gage-height record since 1884 are contained in reports of Mississippi River Commission and National Weather Service. Intermittent records of discharge since 1879 and daily discharges since Jan 1, 1928 in reports of Mississippi River Commission.

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

GAGE.--Water-stage recorder. Datum of gage is 139.91 ft (42.645 m) above mean sea level, or 140.02 ft (42.678 m) above mean Gulf level. Prior to Sept. 16, 1970, nonrecording gage at present site and datum.

REMARKS.--Some regulation by Norfork Lake since 1943 (see station 07059500), by Clearwater Lake (Missouri) since 1948, by Bull Shoals Lake since July 24, 1951, 318 mi (512 km) upstream (see station 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), by Greers Ferry Lake since Mar. 30, 1962 (see station 07075900), and by Beaver Lake since Dec. 26, 1963 (see station 07049690).

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--48 years, 29,970 ft^3/s (849 m^3/s), 21,710,000 acre-ft/yr (26,800 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 299,000 ft^3/s (8,468 m^3/s) Apr. 23, 1945; maximum gage height, 39.10 ft (11.921 m) Apr. 24, 1945; minimum discharge, 2,900 ft^3/s (82 m^3/s) Sept. 4, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1874, 43.3 ft (13.20 m) Apr. 23, 1927.

EXTREMES FOR WATER YEAR 1975.--Maximum discharge, 159,000 ft^3/s (4,500 m^3/s) Apr. 5; maximum gage height, 32.85 ft (10.013 m) Apr. 6; minimum daily discharge, 12,500 ft^3/s (354 m^3/s) July 18.

EXTREMES FOR WATER YEAR 1976.--Maximum discharge, 45,300 ft^3/s (1,280 m^3/s) July 2, gage height, 25.47 ft (7.763 m); minimum daily, 9,500 ft^3/s (269 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	20400	13400	36600	34400	57400	48200	127000	74700	32600	22000	18400	15300
2	20800	13900	36500	35400	57500	48600	141000	73800	31700	21700	19100	15200
3	20600	15600	36200	36700	58100	50000	153000	74700	31800	21400	19400	15400
4	20400	17300	36000	38800	58800	51100	158000	77900	30900	20000	19400	15800
5	20700	18400	35400	40400	59400	52600	159000	80300	29400	19200	19200	16200
6	21400	19300	34900	42100	60100	53700	158000	81800	27400	18000	18500	17400
7	22200	21500	34500	43400	60600	55500	153000	82600	26000	16800	17900	18300
8	22500	24600	33900	44600	60600	56900	147000	83400	25100	15800	17500	17800
9	21700	27100	33300	45700	59900	58700	146000	83800	24700	14800	16700	16700
10	20200	28800	33000	47100	59400	61000	146000	83300	24200	14900	15700	15200
11	19400	29800	32900	50600	57900	61900	136000	82200	23300	15300	15000	13800
12	19400	30200	33200	53500	57200	64900	136000	80500	22300	15800	14400	12700
13	20700	30400	33400	55300	56500	69400	132000	78100	21600	15300	13700	12900
14	21000	30600	33700	56800	55800	73600	123000	75800	20400	14600	13300	14100
15	21200	31400	33800	58000	54900	75500	113000	75300	19200	13800	13500	15800
16	20600	31900	33500	58600	53900	78100	110000	73100	18600	13300	14600	17400
17	19500	32400	32800	58700	53400	80800	112000	69900	18100	12700	15700	18400
18	18100	32700	32200	60200	52500	81900	106000	67300	18000	12500	15900	18600
19	17600	32400	31400	60800	51000	83600	101000	64900	18300	12800	16200	18300
20	17100	31900	30700	61500	49300	86500	95800	61300	18900	13000	16800	18500
21	17000	31300	30000	62800	50000	84100	91100	59000	19700	13100	17600	19300
22	17000	30600	29000	63500	48100	81600	87300	55500	21100	13200	19000	20800
23	16700	29800	28200	62800	48400	82200	82200	52500	22000	13300	20500	22400
24	16000	29500	28000	62400	48200	82600	80200	50300	22100	14200	21900	23800
25	15400	30300	28000	62600	47600	83600	78200	47600	21900	14800	22700	24400
26	15100	32300	28500	61900	47000	85600	77000	45500	21600	15800	22500	24500
27	14800	34100	29400	62000	47100	87500	74600	42900	21100	16600	21500	24400
28	14400	35500	30400	61300	47700	92700	73700	39900	21000	17100	20200	24000
29	14300	36200	31900	60400	---	103000	74200	37400	21400	16900	19200	22800
30	14200	36500	33100	59700	---	106000	75100	35800	22300	16600	16900	21300
31	13700	---	34100	58200	---	114000	---	34000	---	17000	15500	---
TOTAL	574100	839700	1008500	1660200	1518300	2295400	3446400	2025100	696700	492300	548400	551500
MEAN	18520	27990	32530	53550	54230	74050	114900	65330	23220	15880	17690	18380
MAX	22500	36500	36600	63500	60600	114000	159000	83800	32600	22000	22700	24500
MIN	13700	13400	28000	34400	47000	48200	73700	34000	18000	12500	13300	12700
AC-FT	1139000	1666000	2000000	3293000	3012000	4553000	6836000	4017000	1382000	976500	1088000	1094000

CAL YR 1974 TOTAL 15555000 MEAN 42620 MAX 104000 MIN 13400 AC-FT 30850000
WTR YR 1975 TOTAL 15656600 MEAN 42890 MAX 159000 MIN 12500 AC-FT 31050000

07077800 WHITE RIVER AT CLARENDON, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20300	11100	13800	26500	28800	29300	24400	30400	20800	43400	26400	15200
2	19500	11800	13500	28100	26900	27100	25600	30900	22500	44900	26300	14000
3	18800	12200	13300	29800	24800	25100	27300	30500	23300	45100	26000	13100
4	18000	12600	13700	31700	22500	23600	28000	29300	24200	45000	25500	12700
5	17800	12600	14300	33000	20900	22700	28500	27800	25500	43500	24900	12500
6	16900	12400	14700	33500	20700	22200	28500	26600	27200	41400	24100	12300
7	15600	12400	14900	33900	20700	21700	27900	25100	28200	39600	23600	12500
8	14800	12900	16300	33700	20800	22500	27200	23900	28400	38400	23600	13000
9	14900	13500	18100	33200	20600	24200	26500	23000	27600	37700	23700	13300
10	15100	14100	19500	32700	20100	25900	26000	22000	26100	37400	23700	13500
11	15200	14300	20800	31900	18900	27700	25700	20800	24800	37300	23600	13700
12	14900	13800	21700	31500	17900	28600	25200	19800	24300	37300	23300	13400
13	13800	12800	22600	30700	16900	29500	24300	18700	23900	37300	22700	12500
14	12600	12200	23300	29300	15800	29900	22900	17800	23600	37400	21600	11700
15	12100	12400	23600	27400	15400	30200	21400	17500	23100	37000	20300	11100
16	12200	13300	23500	25700	15200	30200	20100	17800	23000	36300	19100	10500
17	12500	14500	23900	24500	14900	29700	18900	18200	23500	35200	18000	11000
18	13700	15300	24000	23600	16300	28700	18200	18000	23700	33700	17100	12100
19	14800	15000	23600	23400	19500	27700	17800	17200	24700	31600	16200	12600
20	14900	13800	23600	23000	23400	26900	17500	16100	24800	30100	16000	12500
21	13900	12200	24600	22300	27000	25200	17600	15200	23700	29400	16000	12300
22	13200	11300	25400	21100	30100	24200	17700	14600	22100	28900	15800	11800
23	12600	11500	25800	20400	33000	23100	17600	14400	20600	28600	15300	10900
24	11800	12000	25900	20000	34900	22000	18000	14500	19900	28200	14800	9800
25	11600	12700	25800	19600	36300	20800	19200	15000	21200	27900	15000	9500
26	12100	13300	25900	20200	36800	19800	20700	15400	25100	27600	15400	9600
27	13100	13600	25900	22400	36600	19300	22800	15200	30100	27200	15500	10400
28	13400	14200	26000	25200	34800	19000	24900	14800	34300	26800	15500	11300
29	12700	14300	25800	27000	32300	19400	27500	14700	37700	26700	15700	12200
30	11500	14200	25700	29600	---	20900	29100	16000	41100	26500	16000	13700
31	10800	---	26000	29500	---	22900	---	18600	---	26500	15900	---
TOTAL	445100	392300	665500	844400	702800	770000	697000	619800	769000	1073900	616600	364700
MEAN	14360	13080	21470	27240	24230	24840	23230	19990	25630	34640	19890	12160
MAX	20300	15300	26000	33900	36800	30200	29100	30900	41100	45100	26400	15200
MIN	10800	11100	13300	19600	14900	19000	17500	14400	19900	26500	14800	9500
AC-FT	882900	778100	1320000	1675000	1394000	1527000	1382000	1229000	1525000	2130000	1223000	723400

CAL YR 1975 TOTAL 14737200 MEAN 40380 MAX 159000 MIN 10800 AC-FT 29230000
WTR YR 1976 TOTAL 7961100 MEAN 21750 MAX 45100 MIN 9500 AC-FT 15790000

07077800 WHITE RIVER AT CLARENDON, AR--Continued
(National stream-quality accounting station)

WATER-QUALITY RECORDS

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, Jan 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 355 micromhos Jan. 5; minimum, 110 micromhos Apr. 1.
WATER TEMPERATURES: Maximum 29.0°C on several days during July and August; minimum, 0.0°C Jan 19, 20, 21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
08...	1028	1028	246	8.1	--	9.3	98	--	B95	B24	130
NOV											
26...	1028	1028	--	--	--	--	--	--	--	--	--
26...	1028	1028	309	8.0	9.5	10.0	90	--	B13	B6	150
DEC											
20...	1028	1028	280	7.0	7.0	11.2	95	--	B7	<4	140
FEB											
01...	1028	1028	270	7.4	3.0	12.1	93	--	<7	B24	130
22...	1028	1028	250	7.1	8.0	11.4	99	--	B7	B8	140
MAR											
21...	1028	1028	179	7.2	15.0	7.8	80	--	B80	96	86
APR											
19...	1028	1028	--	--	--	--	--	--	--	--	--
19...	1028	1028	155	7.6	20.5	5.5	62	--	B7	100	84
MAY											
25...	1028	1028	246	7.8	23.0	7.8	93	--	--	B28	120
JUN											
13...	1028	1028	314	7.4	28.0	7.2	92	--	B11	B140	160
JUL											
11...	1028	1028	219	6.9	28.0	5.6	72	--	B300	B610	110
AUG											
31...	1028	1028	278	8.1	29.0	8.5	111	1.6	B60	--	130
SEP											
06...	1028	1028	244	7.5	27.0	8.1	102	1.7	B22	--	120
15...	1028	1028	254	8.2	21.5	7.5	87	1.9	B110	--	120
22...	1028	1028	270	8.1	25.0	7.3	90	2.1	B33	--	140
28...	1028	1028	181	7.8	24.0	7.0	85	2.6	B100	--	91

DATE	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											
08...	11	32	11	2.7	4	.1	1.3	139	0	114	1.8
NOV											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	8	36	15	3.8	5	.1	1.4	175	0	144	2.8
DEC											
20...	1	31	14	4.3	6	.2	1.6	164	0	135	26
FEB											
01...	5	32	13	3.8	6	.1	1.3	157	0	129	10
22...	9	33	13	3.6	5	.1	1.4	155	0	127	20
MAR											
21...	9	21	8.1	4.3	10	.2	1.3	94	0	77	9.5
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	15	18	9.5	2.1	5	.1	2.2	84	0	69	3.4
MAY											
25...	0	31	11	2.9	5	.1	1.5	150	0	120	3.8
JUN											
13...	7	39	16	5.0	6	.2	1.5	190	0	160	12
JUL											
11...	7	24	11	3.6	7	.2	1.6	120	0	98	24
AUG											
31...	2	32	13	3.9	6	.1	1.7	160	0	130	2.0
SEP											
06...	9	28	13	3.2	5	.1	1.7	140	0	110	7.1
15...	2	27	12	4.6	8	.2	2.3	140	0	110	1.4
22...	9	33	14	3.8	5	.1	2.1	160	0	130	2.0
28...	9	21	9.4	3.3	7	.2	2.8	100	0	82	2.5

07077800 WHITE RIVER AT CLARENDON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
OCT											
08...	6.3	3.7	.1	4.9	134	131	.18	.02	.14	.16	.71
NOV											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	4.2	5.3	.1	4.6	157	157	.21	.06	.13	.19	.84
DEC											
20...	7.9	5.9	.1	5.7	145	151	.20	.12	.28	.40	1.8
FEB											
01...	6.9	5.8	.1	5.0	144	145	.20	.25	.50	.75	3.3
22...	9.5	5.3	.1	3.1	149	145	.20	.00	.33	.33	1.5
MAR											
21...	10	4.0	.2	6.0	113	101	.15	.24	.79	1.0	4.6
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	10	3.0	.1	6.3	85	93	.12	.14	.50	.64	2.8
MAY											
25...	8.6	4.4	.1	4.7	134	138	.18	.10	.50	.60	2.7
JUN											
13...	9.3	6.0	.1	6.1	173	177	.24	.01	.28	.29	1.3
JUL											
11...	5.8	4.6	.1	6.0	125	116	.17	.19	1.0	1.2	5.3
AUG											
31...	4.2	4.4	.1	7.7	150	146	.20	.05	.37	.42	1.9
SEP											
06...	4.4	3.6	.1	6.5	124	130	.17	.13	.14	.27	1.2
15...	4.1	5.6	.1	7.1	131	132	.18	.06	.62	.68	3.0
22...	6.0	5.1	.1	7.5	134	151	.18	.23	.27	.50	2.2
28...	5.4	5.6	.1	7.4	106	104	.14	.20	.64	.84	3.7

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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											
08...	.06	--	--	1	--	--	1	--	--	0	--
NOV											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	.04	--	--	--	--	--	--	--	--	--	--
DEC											
20...	.05	--	--	--	--	--	--	--	--	--	--
FEB											
01...	.07	0	0	0	<10	<10	0	0	0	0	<50
22...	.05	--	--	--	--	--	--	--	--	--	--
MAR											
21...	.23	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	.11	2	--	1	<10	<9	1	0	0	0	<50
MAY											
25...	.09	--	--	--	--	--	--	--	--	--	--
JUN											
13...	.09	--	--	--	--	--	--	--	--	--	--
JUL											
11...	.16	3	2	1	<10	<10	0	20	--	0	<50
AUG											
31...	.06	1	0	1	<10	<9	1	40	40	0	<50
SEP											
06...	.06	0	0	0	<10	<9	1	10	10	0	<50
15...	.09	2	2	0	<10	<10	0	10	10	0	<50
22...	.09	1	0	1	<10	<10	0	20	20	0	<50
28...	.11	3	2	1	<10	<10	0	10	10	0	<50

07077800 WHITE RIVER AT CLARENDON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT												
08...	--	0	--	--	2	--	20	--	--	0	--	--
FEB												
01...	<49	1	10	6	4	650	30	<100	<100	0	70	40
APR												
19...	<48	2	<10	<6	4	1900	140	<100	<99	1	140	120
JUL												
11...	<50	0	10	3	7	3200	30	<100	<99	1	320	--
AUG												
31...	<50	0	40	35	5	950	30	<100	<100	0	120	110
SEP												
06...	<49	1	40	35	5	1100	70	<100	<97	3	130	110
15...	<50	0	<10	<5	5	1700	30	<100	<100	0	130	110
22...	<50	0	100	90	10	1400	30	<100	<100	0	140	120
28...	<50	0	40	34	6	2300	30	<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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT											
08...	0	--	--	.0	0	0	0	--	--	0	2.2
FEB											
01...	30	.2	.2	.0	0	0	0	20	10	10	1.9
APR											
19...	20	.0	--	.0	0	--	0	110	100	10	5.9
JUL											
11...	0	.0	.0	.0	0	0	0	30	26	4	4.7
AUG											
31...	10	.0	.0	.0	0	0	0	40	40	0	3.7
SEP											
06...	20	.0	.0	.0	0	0	0	30	30	0	4.5
15...	20	.1	.1	.0	0	0	0	40	30	10	7.1
22...	20	.1	.1	.0	0	0	0	60	60	0	3.9
28...	10	.0	.0	.0	0	0	0	30	20	10	5.5

DATE	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	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)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
NOV											
26...	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC											
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	ND	--	ND	--	ND	--	ND	--	ND
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	ND	ND	ND	--	ND	ND	ND	ND	ND
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	.0	.00	.00	--	--	--	.0	--	.00	--	.00
15...	.0	.00	.00	--	--	--	.0	--	.00	--	.00
22...	.0	.00	.00	--	--	--	.0	--	.00	--	.00
28...	.0	.00	.00	--	--	--	.0	--	.00	--	.00

07077800 WHITE RIVER AT CLARENDON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DDE IN BOTTOM MATERIAL (UG/KG) (39368)	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											
08...	--	--	--	--	--	--	--	--	--	--	--
NOV											
26...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC											
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
22...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	.00	--	.00	--	.00	--	.00	--	.00	--
15...	--	.00	--	.00	--	.00	--	.00	--	.00	--
22...	--	.00	--	.00	--	.00	--	.00	--	.00	--
28...	--	.00	--	.00	--	.00	--	.00	--	.00	--

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)	TOTAL METHYL PARATHION (UG/L) (39600)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
NOV											
26...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC											
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
22...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	.00	--	.00	--	.00	--	.00	--	.00	--	.00
15...	.00	--	.00	--	.00	--	.00	--	.00	--	.00
22...	.00	--	.00	--	.00	--	.00	--	.00	--	.00
28...	.00	--	.00	--	.00	--	.00	--	.00	--	.00

07077800 WHITE RIVER AT CLARENDON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	METHYL PARATHION IN BOTTOM MATERIAL (UG/KG) (39601)	TOTAL METHYL TRITHION (UG/L) (39790)	METHYL TRITHION IN BOTTOM MATERIAL (UG/KG) (39791)	TOTAL MIREX (UG/L) (39755)	TOTAL PARATHION (UG/L) (39540)	PARATHION IN BOTTOM MATERIAL (UG/KG) (39541)	SIMAZINE TOTAL COULSON COND. (UG/L) (39025)	SIMAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS) (39046)	TOTAL TOXAPHENE (UG/L) (39400)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG) (39403)
OCT										
08...	--	--	--	--	--	--	--	--	--	--
NOV										
26...	ND	ND	ND	--	ND	ND	ND	ND	ND	ND
DEC										
20...	--	--	--	--	--	--	--	--	--	--
FEB										
01...	--	--	--	--	--	--	--	--	--	--
22...	--	ND	--	--	ND	--	ND	--	ND	--
MAR										
21...	--	--	--	--	--	--	--	--	--	--
APR										
19...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	ND	ND	ND	--	ND	ND	ND	--	ND	ND
JUN										
13...	--	--	--	--	--	--	--	--	--	--
JUL										
11...	--	--	--	--	--	--	--	--	--	--
SEP										
06...	--	.00	--	.00	.00	--	--	--	0	--
15...	--	.00	--	.00	.00	--	--	--	0	--
22...	--	.00	--	.00	.00	--	--	--	0	--
28...	--	.00	--	.00	.00	--	--	--	0	--

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)
OCT										
08...	--	--	--	--	--	--	--	--	53	96
NOV										
26...	ND	ND	ND	ND	ND	ND	ND	ND	32	75
DEC										
20...	--	--	--	--	--	--	--	--	38	94
FEB										
01...	--	--	--	--	--	--	--	--	25	88
22...	ND	--	ND	--	ND	--	ND	--	54	94
MAR										
21...	--	--	--	--	--	--	--	--	164	98
APR										
19...	--	--	--	--	--	--	--	--	62	79
MAY										
25...	ND	ND	ND	--	ND	--	ND	--	93	95
JUN										
13...	--	--	--	--	--	--	--	--	337	23
JUL										
11...	--	--	--	--	--	--	--	--	327	55
SEP										
06...	.00	--	.02	--	.02	--	.00	--	--	--
15...	.00	--	.02	--	.03	--	.00	--	71	97
22...	.00	--	.01	--	.01	--	.00	--	74	97
28...	.00	--	.01	--	.01	--	.00	--	--	--

07077800 WHITE RIVER AT CLARENDON, AR--Continued

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

PHYTOPLANKTON

DATE	OCT 8,76		NOV 26,76		DEC 20,76		FEB 1,77	
TIME	1045		1130		1330		1130	
TOTAL CELLS/ML	4200		3100		1900		600	
DIVERSITY: DIVISION	0.6		1.3		1.1		1.3	
.CLASS	0.6		1.4		1.1		1.3	
..ORDER	0.9		2.1		1.5		1.8	
...FAMILY	1.1		2.8		1.7		2.0	
....GENUS	2.0		3.1		1.7		2.3	

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	39	2	--	-
...MICRACTINIACEAE								
....GOLENKINIA	41	1	--	-	--	-	--	-
....MICRACTINIUM	160	4	200	6	77	4	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	120	3	36	1	--	-	3	1
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	120	3	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	26	4
....SELENASTRUM	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	290	9	--	-	13	2
....SCENEDESMUS	41	1	140	5	--	-	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	--	-	--	-
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	54	2	--	-	23	4
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	--	-	--	-	--	-
..CHLOROCOCCALES								
...OOCYSTACEAE								
....GLOEOACTINIUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	1400#	33	18	1	1300#	66	26	4
....MELOSIRA	2000#	48	90	3	--	-	13	2
....STEPHANODISCUS	--	-	1200#	38	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	54	2	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	--	-	18	1	--	-	--	-
...DIATOMACEAE								
....DIATOMA	*	0	220	7	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	26	4
....FRAGILARIA	--	-	*	0	--	-	--	-
....SYNEDRA	41	1	--	-	39	2	6	1
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	--	-	3	1
...NAVICULACEAE								
....GYROSIGMA	--	-	--	-	--	-	--	-
....NAVICULA	41	1	18	1	77	4	3	1
...NITZSCHIACEAE								
....NITZSCHIA	160	4	310	10	77	4	62	10
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...CHROMULINACEAE								
....CHRYSOCOCCUS	--	-	72	2	--	-	--	-
...MALLOMONADACEAE								
....MALLOMONAS	--	-	--	-	--	-	--	-

07077800 WHITE RIVER AT CLARENDON, AR--Continued

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

PHYTOPLANKTON

DATE TIME	OCT 8,76 1045		NOV 26,76 1130		DEC 20,76 1330		FEB 1,77 1130	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCOCCALES								
...CHROCOCCACEAE								
....AGMENELLUM	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	310#	16	19	3
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	16	3
....OSCILLATORIA	--	-	--	-	--	-	360#	59
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	310	10	--	-	--	-
...CRYPTOMONADACEAE								
....CRYPTOMONAS	41	1	90	3	--	-	3	1
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	*	0	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	39	2	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...PERIDINIACEAE								
....PERIDINIUM	--	-	--	-	--	-	--	-

07077800 WHITE RIVER AT CLARENDON, AR--Continued

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

PHYTOPLANKTON

DATE	FEB 22,77		MAY 25,77		JUN 13,77		JUL 11,77	
TIME	1100		1100		1030		1030	
TOTAL CELLS/ML	2700		3600		6000		3100	
DIVERSITY: DIVISION	0.7		1.7		1.4		1.2	
.CLASS	0.7		1.7		1.4		1.2	
..ORDER	1.5		2.2		2.0		1.9	
...FAMILY	2.3		2.6		2.1		2.4	
....GENUS	2.8		3.5		2.5		2.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	*	0	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	*	0	--	-
....MICRACTINIUM	80	3	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	99	4	230	6	230	4	*	0
....DICTYOSPHAERIUM	80	3	520	15	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	*	0	--	-
....OOCYSTIS	--	-	92	3	*	0	40	1
....SELENASTRUM	--	-	--	-	*	0	--	-
....TETRAEDRON	--	-	*	0	*	0	--	-
....TREUBARIA	--	-	--	-	*	0	--	-
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	110	3	260	4	--	-
....CRUCIGENIA	--	-	61	2	--	-	--	-
....SCENEDESMUS	120	4	380	11	57	1	20	1
....TETRASTRUM	80	3	--	-	*	0	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	61	2	--	-	--	-
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	150	5
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	46	1	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	61	2	--	-	--	-
..CHLOROCOCCALES								
...OOCYSTACEAE								
....GLOEOACTINIUM	--	-	--	-	140	2	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	1300#	47	170	5	2800#	46	30	1
....MELOSIRA	80	3	920#	26	320	5	590#	19
....STEPHANODISCUS	--	-	*	0	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	--	-	--	-	--	-	--	-
...CYMBELLACEAE								
....CYMBELLA	80	3	*	0	--	-	--	-
...DIATOMACEAE								
....DIATOMA	80	3	--	-	--	-	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	160	6	--	-	--	-	--	-
....FRAGILARIA	220	8	--	-	--	-	--	-
....SYNEDRA	40	1	31	1	--	-	40	1
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	*	0	--	-	--	-
...NAVICULACEAE								
....GYROSIGMA	--	-	--	-	--	-	20	1
....NAVICULA	20	1	31	1	--	-	89	3
...NITZSCHIACEAE								
....NITZSCHIA	320	12	110	3	370	6	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...CHROMULINACEAE								
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-
...MALLOMONADACEAE								
....MALLOMONAS	--	-	*	0	--	-	--	-

07077800 WHITE RIVER AT CLARENDON, AR--Continued

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

PHYTOPLANKTON

DATE TIME	FEB 22,77 1100		MAY 25,77 1100		JUN 13,77 1030		JUL 11,77 1030	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCOCCALES								
...CHROCOCCACEAE								
....AGMENELLUM	--	-	240	7	--	-	400	13
....ANACYSTIS	--	-	340	9	1100#	19	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	350	11
...OSCILLATORIACEAE								
....LYNGBYA	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	570	9	1300#	43
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	*	0	--	-	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	*	0	--	-	--	-
....PHACUS	--	-	*	0	--	-	--	-
....TRACHELOMONAS	--	-	92	3	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...PERIDINIACEAE								
....PERIDINIUM	--	-	--	-	57	1	--	-

PERIPHYTON

	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
NOV. 26	48	24080	15770	8310	9.68	3.34	858	POLYETHYLENE STRIP
APR. 19	29	78.7	.000	78.7	.001	.010	7870	POLYETHYLENE STRIP

BENTHIC INVERTEBRATES

DATE TIME	NOV 26,76 1130
TOTAL COUNT	201
DIVERSITY: PHYLUM	0.0
.CLASS	0.0
..ORDER	0.7
...FAMILY	1.4
....GENUS	1.9
....GENUS-INSECTA	1.9

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	11
....PENTANEURA	1
....RHEOTANYTARSUS	2
....TRISSOCLADIUS	5
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	5
...HEPTAGENIIDAE	
....STENONEMA	3
..PLECOPTERA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	117
....HYDROPSYCHE	16
...POLYCENTROPODIDAE	
....POLYCENTROPUS	40

07077800 WHITE RIVER AT CLARENDON, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	271	323	329	269	255	110	176	268	210	291	266
2	237	276	325	328	294	259	119	---	265	202	279	257
3	275	282	332	329	272	254	113	181	271	214	268	300
4	231	286	304	335	262	237	121	203	287	237	312	251
5	245	279	309	355	247	228	112	181	---	224	296	260
6	247	268	292	348	264	148	115	177	282	258	302	244
7	247	317	284	339	259	206	117	181	278	274	301	254
8	252	283	288	326	259	152	116	188	260	269	294	267
9	261	252	291	326	269	161	120	189	278	253	314	269
10	---	278	294	316	269	160	119	206	293	250	322	253
11	279	298	273	294	292	165	121	193	283	226	318	254
12	271	231	285	332	286	170	120	188	293	263	313	250
13	269	235	319	312	299	169	134	190	317	261	304	266
14	296	253	295	290	288	135	136	218	314	---	---	255
15	256	232	286	257	264	168	140	241	301	283	302	255
16	242	217	284	251	265	162	119	246	333	276	321	260
17	276	290	270	243	249	163	117	251	301	265	314	259
18	275	287	280	255	249	140	120	262	294	260	308	260
19	274	232	284	248	256	183	156	261	306	249	315	279
20	298	215	276	276	289	189	129	244	316	---	308	289
21	294	---	294	253	270	187	162	252	326	284	296	267
22	241	291	304	250	273	---	164	224	320	272	290	280
23	265	307	306	241	254	180	169	238	322	238	284	250
24	261	298	319	259	254	173	154	252	320	255	281	248
25	239	315	322	266	263	188	159	254	329	277	294	236
26	254	307	327	281	273	192	194	254	328	280	258	---
27	269	288	342	268	259	198	202	289	323	236	250	159
28	289	284	314	274	261	200	178	238	306	245	236	---
29	277	324	313	264	---	216	180	251	168	253	253	190
30	280	344	325	268	---	138	184	---	197	268	234	173
31	---	---	313	283	---	142	---	263	---	279	274	---
MEAN	265	277	302	290	268	184	140	224	292	254	291	252

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	12.0	7.0	3.5	3.0	10.0	15.0	18.0	24.0	27.0	25.5	28.0
2	20.0	12.0	6.0	3.0	3.0	10.0	15.5	---	25.0	27.0	26.0	28.0
3	20.0	12.0	6.0	3.0	3.5	10.0	15.5	19.0	25.0	27.0	25.5	28.0
4	20.0	12.0	7.0	3.0	3.5	10.0	15.0	19.0	24.5	27.5	25.5	28.0
5	19.0	10.5	6.0	3.0	3.0	10.0	15.0	19.5	---	28.0	25.5	28.0
6	19.0	10.0	6.0	3.0	3.5	10.0	15.0	20.0	25.0	28.0	25.0	28.0
7	19.0	10.0	6.0	3.0	3.5	9.0	15.5	20.0	25.0	28.0	26.0	28.0
8	19.0	10.0	5.5	3.0	3.5	9.0	15.5	21.5	25.0	28.5	25.0	28.0
9	16.0	10.0	5.0	3.0	3.5	10.0	15.5	22.0	25.5	29.0	25.0	27.0
10	16.0	10.0	5.5	2.0	4.0	10.0	15.5	20.5	25.0	28.0	27.0	27.0
11	16.0	10.0	5.5	1.5	4.0	10.0	16.5	19.5	25.0	27.0	25.5	26.0
12	16.0	9.5	5.5	1.5	5.0	10.0	17.0	20.0	25.5	28.0	26.0	26.0
13	16.0	9.0	5.0	1.0	5.0	12.0	17.0	19.0	25.5	28.0	25.0	26.0
14	16.0	9.0	5.0	1.0	5.0	12.0	18.0	20.0	25.5	---	---	26.0
15	17.0	9.0	5.0	1.0	5.5	13.0	19.0	21.0	25.5	28.0	29.0	25.0
16	16.0	8.5	5.0	1.0	5.0	14.0	20.0	21.0	26.0	28.5	27.0	24.5
17	16.0	9.0	5.5	1.0	5.0	14.0	20.0	22.0	25.0	29.0	27.0	24.5
18	15.0	9.0	5.5	1.0	5.0	14.5	20.0	22.0	26.0	29.0	28.5	24.0
19	15.0	8.5	5.5	0.0	5.5	14.0	20.0	22.5	26.0	29.0	28.0	24.5
20	15.0	8.5	5.0	0.0	5.5	14.0	20.0	23.0	26.0	---	25.0	24.0
21	14.5	---	5.0	0.0	5.5	14.0	20.0	23.0	26.0	29.0	25.0	24.0
22	14.5	8.5	5.0	0.5	6.5	---	20.0	23.0	26.5	29.0	25.0	24.0
23	14.5	8.5	5.0	1.0	7.5	13.0	18.0	22.5	26.5	29.0	25.0	24.0
24	14.5	8.5	5.0	1.0	8.0	14.0	20.0	23.0	27.0	29.0	27.0	24.0
25	14.5	8.5	5.0	1.0	8.5	13.5	19.0	23.0	27.5	29.0	26.0	24.0
26	15.0	9.0	5.0	1.0	10.0	14.0	18.0	22.0	26.0	28.0	26.0	---
27	14.0	9.0	5.0	3.0	9.0	14.0	17.0	24.0	27.0	28.0	26.0	24.0
28	14.0	8.0	5.0	3.5	10.0	14.0	17.0	23.0	25.0	28.5	28.0	---
29	13.0	8.0	5.0	3.0	---	15.0	17.5	24.0	25.0	25.0	27.0	24.0
30	13.0	8.0	5.0	3.0	---	15.0	18.0	23.0	26.0	25.5	28.0	24.0
31	---	---	5.0	3.0	---	15.0	---	23.0	---	25.5	28.0	---
MEAN	16.5	9.5	5.5	2.0	5.5	12.0	17.5	21.5	25.5	28.0	26.5	25.5

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, Hydrologic Unit 08020303, 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 mi² (66,845 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (M) (00078)	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 .7UM-MF (COL./ 100 ML) (31625)
OCT												
04...	9827	9827	255	8.3	22.0	20	--	9.0	102	2.5	1400	--
05...	9827	9827	--	--	--	--	--	--	--	--	--	--
NOV												
01...	9827	9827	279	8.1	12.0	5	--	9.4	87	2.9	740	--
30...	9827	9827	290	8.2	7.0	5	--	10.7	88	1.5	840	--
JAN												
19...	9827	9827	246	8.1	1.0	30	--	12.7	89	3.1	590	--
FEB												
07...	9827	9827	254	8.0	4.0	15	--	13.6	104	4.4	47	--
MAR												
14...	9827	9827	168	7.7	16.0	80	--	8.7	87	1.5	--	--
APR												
11...	9827	9827	120	7.3	19.0	150	--	5.6	60	1.1	--	--
MAY												
09...	9827	9827	182	8.0	23.0	50	--	7.8	90	2.1	20	--
JUN												
14...	9827	9827	297	8.2	27.0	25	--	7.6	94	2.6	--	--
JUL												
12...	9827	9827	224	8.0	30.0	--	--	6.3	83	3.0	--	--
AUG												
08...	9827	9827	290	8.2	29.0	15	--	8.7	112	3.7	130	--
SEP												
01...	1028	1028	247	8.3	28.0	--	.30	7.8	101	1.6	--	813
07...	1028	1028	247	8.0	27.0	--	.30	7.0	89	--	--	811
12...	9827	9827	252	8.3	28.0	5	--	8.7	110	2.2	310	--
16...	1028	1028	251	8.2	21.0	--	--	8.1	93	1.6	--	860
23...	1028	1028	280	8.2	24.0	--	.49	7.7	93	1.8	--	833
29...	1028	1028	198	7.4	24.0	--	.25	6.2	75	2.6	--	856

DATE	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML) (31673)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	DISSOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	TOTAL POTASSIUM (K) (MG/L) (00937)
OCT												
04...	130	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
01...	35	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	110	--	37	--	3.0	4.1	--	--	--	1.6
JAN												
19...	410	--	--	--	--	--	--	--	--	--	--	--
FEB												
07...	<7	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	--	--	44	0	7.6	--	6.1	3.4	--	--	--	3.6
APR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	510	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
01...	--	816	120	0	29	--	12	--	4.0	7	.2	--
07...	--	540	130	8	31	--	13	--	3.5	5	.1	--
12...	--	--	110	--	--	12	--	3.5	--	--	--	1.7
16...	--	490	130	12	31	--	12	--	4.2	7	.2	--
23...	--	560	140	8	31	--	15	--	3.8	6	.1	--
29...	--	1900	87	8	20	--	9.1	--	3.4	8	.2	--

07077820 WHITE RIVER AT ST. CHARLES, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	143	--
05...	--	--	--	--	--	5.0	6.0	--	--	--	--	--
NOV												
01...	--	--	--	--	--	6.0	6.0	--	--	--	175	--
30...	--	--	0	--	--	4.0	8.5	--	--	--	171	--
JAN												
19...	--	--	--	--	--	3.0	7.0	--	--	--	147	--
FEB												
07...	--	--	--	--	--	7.0	6.5	--	--	--	146	--
MAR												
14...	--	86	0	71	2.7	4.0	6.5	--	--	--	173	--
APR												
11...	--	--	--	--	--	5.0	4.0	--	--	--	139	--
MAY												
09...	--	--	--	--	--	4.0	4.5	--	--	--	132	--
JUN												
14...	--	--	--	--	--	2.0	6.0	--	--	--	184	--
JUL												
12...	--	--	--	--	--	5.0	5.5	--	--	--	--	--
AUG												
08...	--	--	--	--	--	6.0	7.0	--	--	--	173	--
SEP												
01...	1.7	150	0	120	1.2	4.6	5.0	.1	7.2	133	--	138
07...	1.6	150	0	120	2.4	4.9	3.9	.1	6.7	131	--	139
12...	--	--	--	--	--	5.0	7.0	--	--	--	148	--
16...	2.0	140	0	110	1.4	4.8	5.1	.1	6.7	132	--	135
23...	1.9	160	0	130	1.6	5.9	5.1	.2	7.2	141	--	149
29...	2.8	97	0	80	6.2	4.9	5.5	.1	7.0	104	--	101

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	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)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L) (00623)	TOTAL NITRO-GEN (N) (MG/L) (00600)	TOTAL NITRO-GEN (NO3) (MG/L) (71887)
OCT											
04...	--	55	<.10	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
NOV											
01...	--	22	.20	--	--	--	--	--	--	--	--
30...	--	19	.15	--	--	--	--	--	--	--	--
JAN											
19...	--	55	.23	--	--	--	--	--	--	--	--
FEB											
07...	--	42	.29	--	--	--	--	--	--	--	--
MAR											
14...	--	124	.37	--	--	--	--	--	--	--	--
APR											
11...	--	23	.17	<.10	--	.23	--	--	--	--	--
MAY											
09...	--	--	.17	.01	--	.11	--	--	--	--	--
JUN											
14...	--	84	<.05	<.05	--	<.05	--	--	--	--	--
JUL											
12...	--	159	.18	.02	--	.14	--	--	--	--	--
AUG											
08...	--	63	<.05	<.05	--	--	--	--	--	--	--
SEP											
01...	.18	62	--	--	.02	.01	.32	.33	.33	.35	1.6
07...	.18	56	--	--	.18	.00	.84	.84	.00	1.0	4.5
12...	--	56	.05	<.05	--	.10	--	--	--	--	--
16...	.18	88	--	--	.09	.00	.38	.38	.00	.47	2.1
23...	.19	74	--	--	.50	.02	.24	.26	.25	.76	3.4
29...	.14	144	--	--	.23	.05	.57	.62	.61	.85	3.8

07077820 WHITE RIVER AT ST. CHARLES, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L) (00666)	TOTAL ARSENIC (AS) (UG/L) (01002)	SUS-PENDED ARSENIC (AS) (UG/L) (01001)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	TOTAL BARIUM (BA) (UG/L) (01007)	SUS-PENDED BARIUM (BA) (UG/L) (01006)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	TOTAL CAD-MIUM (CD) (UG/L) (01027)	SUS-PENDED CAD-MIUM (CD) (UG/L) (01026)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)
OCT											
04...	.08	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
NOV											
01...	.06	--	--	--	--	--	--	--	--	--	--
30...	.03	--	<3	--	--	--	--	--	<10	--	--
JAN											
19...	.11	--	--	--	--	--	--	--	--	--	--
FEB											
07...	.04	--	--	--	--	--	--	--	--	--	--
MAR											
14...	.33	--	<3	--	--	--	--	--	<10	--	--
APR											
11...	.17	--	--	--	--	--	--	--	--	--	--
MAY											
09...	.15	--	--	--	--	--	--	--	--	--	--
JUN											
14...	.15	--	--	--	--	--	--	--	--	--	--
JUL											
12...	.20	--	--	--	--	--	--	--	--	--	--
AUG											
08...	.08	--	--	--	--	--	--	--	--	--	--
SEP											
01...	.07	.02	1	0	1	300	--	0	<10	<10	0
07...	.07	.01	0	0	0	400	--	0	<10	<8	2
12...	.10	--	--	--	--	--	--	--	<10	--	--
16...	.09	.02	0	0	0	100	100	0	<10	<10	0
23...	.08	.04	1	0	1	200	--	100	<10	<10	0
29...	.13	.05	3	3	0	100	--	100	10	6	4

DATE	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 (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)
NOV											
30...	<3	--	--	--	--	--	<10	--	--	300	--
MAR											
14...	--	--	--	--	--	--	<10	--	--	7800	--
SEP											
01...	0	0	0	<50	<50	0	30	25	5	1100	10
07...	20	20	0	<50	<50	0	20	15	5	1100	10
12...	<5	--	--	--	--	--	<10	--	--	1300	--
16...	10	10	0	<50	<50	0	<10	<6	4	2000	30
23...	30	30	0	<50	<50	0	70	60	10	1400	40
29...	20	20	0	<50	<50	0	10	4	6	2900	100

DATE	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)	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)
NOV											
30...	<10	--	--	37	--	--	1.4	--	--	--	--
MAR											
14...	20	--	--	250	--	--	--	--	--	--	--
SEP											
01...	<100	<100	0	140	140	0	.0	.0	.0	0	0
07...	<100	<95	5	120	120	0	.0	.0	.0	2	2
12...	<10	--	--	92	--	--	--	--	--	--	--
16...	<100	<100	0	150	150	0	.0	.0	.0	0	0
23...	<100	<100	0	120	110	10	.0	.0	.0	0	0
29...	<100	<99	1	250	230	20	.0	.0	.0	0	0

07077820 WHITE RIVER AT ST. CHARLES, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	TOTAL SILVER (AG) (UG/L) (01077)	SUS-PENDED SILVER (AG) (UG/L) (01076)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	TOTAL ZINC (ZN) (UG/L) (01092)	SUS-PENDED ZINC (ZN) (UG/L) (01091)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)
NOV											
30...	--	--	--	--	<1	--	--	--	--	--	--
MAR											
14...	--	--	--	--	3	--	--	--	--	--	--
SEP											
01...	0	<10	--	0	20	20	0	4.5	--	--	--
07...	0	<10	--	0	20	10	10	5.5	.0	.00	.00
12...	--	--	--	--	<1	--	--	--	--	--	--
16...	0	<10	<10	0	40	40	0	3.7	.0	.00	.00
23...	0	<10	--	0	40	30	10	5.2	--	--	--
29...	0	<10	--	0	20	10	10	4.6	--	--	--

DATE	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)	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)
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
07...	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12...	--	--	--	--	--	--	--	--	--	--	--
16...	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	TOTAL MIREX (UG/L) (39755)	TOTAL PARA-THION (UG/L) (39540)	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)
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
07...	.00	.00	.00	.00	.00	.00	0	.00	.03	.02	.00
12...	--	--	--	--	--	--	--	--	--	--	--
16...	.00	.00	.00	.00	.00	.00	0	.00	.03	.03	.00
23...	--	--	--	--	--	--	--	--	.01	.01	.00
29...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020304, 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 the base gage.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years, 548 ft^3/s (15.5 m^3/s), 397,000 acre-ft/yr (490 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, 1,980 ft^3/s (56.1 m^3/s) Mar. 13, gage height, 27.44 ft (8.364 m); minimum, 2.3 ft^3/s (0.065 m^3/s) June 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	241	20	35	250	178	176	40	3.9	265	381	189
2	36	253	16	30	223	156	145	32	3.0	179	394	178
3	25	261	14	25	203	289	255	32	2.8	140	404	168
4	17	261	14	20	184	1160	667	34	2.6	157	408	153
5	18	258	13	20	166	1370	744	27	2.6	182	407	142
6	80	252	14	23	146	1260	644	23	2.7	200	398	185
7	90	246	21	44	126	1200	573	21	3.6	213	383	218
8	52	231	29	45	108	1150	529	18	4.8	220	352	246
9	29	223	31	47	91	1100	496	34	5.5	254	310	254
10	19	210	26	65	80	1050	475	62	5.3	360	258	254
11	13	195	31	90	74	1040	454	44	5.5	337	204	264
12	10	176	162	140	94	1590	428	31	5.6	304	157	294
13	9.1	155	198	350	184	1960	391	22	5.7	310	118	342
14	7.8	134	146	890	197	1890	337	16	8.1	329	92	435
15	6.6	112	114	1110	187	1750	264	14	44	341	241	508
16	5.5	90	130	905	201	1600	192	17	94	345	284	493
17	4.7	71	166	810	237	1470	130	21	210	345	225	480
18	4.2	55	193	770	274	1360	85	18	395	341	159	470
19	4.0	43	205	725	301	1250	59	15	492	337	113	458
20	4.3	36	201	828	314	1150	60	12	344	336	105	444
21	4.2	33	184	685	315	1060	54	10	183	343	137	429
22	4.3	31	162	658	301	964	39	8.8	107	336	172	417
23	4.2	26	134	635	295	875	35	9.1	80	321	195	408
24	4.7	21	108	610	327	786	39	7.8	68	302	216	537
25	80	16	92	585	350	694	41	6.2	62	283	223	1010
26	284	30	84	565	307	604	34	5.8	324	309	224	981
27	249	57	77	527	257	523	44	5.7	608	319	223	893
28	158	47	67	477	211	484	55	5.4	607	328	220	846
29	102	34	57	420	---	438	57	5.0	495	351	215	835
30	120	25	48	359	---	346	51	4.4	374	361	207	939
31	205	---	41	250	---	248	---	4.0	---	369	199	---
TOTAL	1705.6	3823	2798	12743	6003	30995	7553	605.2	4548.7	9117	7624	13470
MEAN	55.0	127	90.3	411	214	1000	252	19.5	152	294	246	449
MAX	284	261	205	1110	350	1960	744	62	608	369	408	1010
MIN	4.0	16	13	20	74	156	34	4.0	2.6	140	92	142
AC-FT	3380	7580	5550	25280	11910	61480	14980	1200	9020	18080	15120	26720

CAL YR 1976 TOTAL 114645.9 MEAN 313 MAX 2400 MIN 4.0 AC-FT 227400
WTR YR 1977 TOTAL 100985.5 MEAN 277 MAX 1960 MIN 2.6 AC-FT 200300

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, Hydrologic Unit 08020304, 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.--Chemical analyses: April 1974 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
27...	9827	9827	--	--	--	--	--	--	--	2000	--	--
27...	9827	9827	400	223	7.5	12.0	60	6.1	5.4	--	--	--
NOV												
15...	9827	9827	180	342	7.9	6.0	50	8.4	2.3	--	--	--
15...	9827	9827	--	--	--	--	--	--	--	200	--	--
DEC												
14...	9827	9827	230	379	7.9	.0	40	9.0	1.7	680	--	180
JAN												
24...	9827	9827	980	127	7.3	3.0	160	9.1	2.6	1700	760	54
FEB												
23...	9827	9827	470	207	7.3	12.0	200	9.2	2.9	50	--	--
MAR												
28...	9827	9827	770	223	7.5	19.0	150	5.7	>5.7	--	--	--
APR												
25...	9827	9827	66	181	7.4	20.0	45	4.4	>4.4	50	140	56
JUN												
07...	9827	9827	5.8	642	8.0	26.0	20	5.0	5.0	<4	--	--
27...	9827	9827	970	90	7.3	26.0	300	5.2	3.4	7400	4500	--
JUL												
19...	9827	9827	540	269	7.8	28.0	--	5.7	2.1	230	--	--
AUG												
22...	9827	9827	280	--	8.1	27.0	--	5.2	1.6	800	--	--
SEP												
26...	9827	9827	1600	126	7.2	24.0	80	3.3	2.5	16000	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	6.0
NOV											
15...	--	--	--	--	--	--	--	--	--	--	24
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	16	--	39	--	21	20	4.9	200	0	164	21
JAN											
24...	11	--	12	--	6.0	5.5	4.0	52	0	43	4.0
FEB											
23...	--	--	--	--	--	--	--	--	--	--	10
MAR											
28...	--	--	--	--	--	--	--	--	--	--	6.0
APR											
25...	--	16	--	3.2	--	8.8	4.1	--	--	--	4.0
JUN											
07...	--	--	--	--	--	--	--	--	--	--	24
27...	--	--	--	--	--	--	--	--	--	--	5.0
JUL											
19...	--	--	--	10	--	--	--	--	--	--	8.0
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
26...	--	--	--	--	--	--	--	--	--	--	4.0

07077960 BIG CREEK NEAR WATKINS CORNER, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
27...	18	175	125	.30	--	--	.41	--	--	--	20	8500
NOV												
15...	24	228	4	.82	--	--	.13	--	--	--	<10	920
DEC												
14...	18	253	17	.19	--	--	.12	<3	<10	<3	<10	1100
JAN												
24...	8.5	162	64	.33	--	--	.14	<3	<10	<3	<10	5200
FEB												
23...	14	215	550	.15	--	--	.23	--	--	--	20	6800
MAR												
28...	8.0	222	82	.54	.12	--	.40	--	--	--	--	--
APR												
25...	6.5	122	25	.00	.01	.17	.35	<10	<10	<3	<10	1000
JUN												
07...	18	387	72	.39	.06	.27	--	--	--	--	--	--
27...	6.0	282	--	.39	.13	.74	--	--	--	--	20	--
JUL												
19...	14	191	83	.27	.04	.18	--	--	<10	10	<10	--
AUG												
22...	14	--	69	.33	<.05	.13	.21	--	--	--	--	--
SEP												
26...	8.5	121	89	.18	<.05	.05	--	--	--	--	<10	4900

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	530	--	60	.00	.00	.00	.00	.00	.00	.00	0
NOV												
15...	--	200	--	20	--	--	--	--	--	--	--	--
DEC												
14...	<10	330	.9	150	--	--	--	--	--	--	--	--
JAN												
24...	<10	590	--	40	--	--	--	--	--	--	--	--
FEB												
23...	--	280	--	40	.00	.00	.00	.00	.00	.00	.00	0
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	--	360	--	20	--	--	--	--	--	--	--	--
JUN												
07...	--	1400	--	40	--	--	--	--	--	--	--	--
27...	--	--	--	190	.00	.01	.02	.00	.00	.00	.00	0
JUL												
19...	20	600	--	<10	.00	.00	.00	.00	.00	.00	--	--
AUG												
22...	--	--	--	--	.00	.00	.00	.00	.01	.00	.06	0
SEP												
26...	--	340	--	30	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020303, 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 1976 TO SEPTEMBER 1977

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)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)
OCT											
04...	9827	9827	261	8.1	23.0	25	8.1	3.5	>2700	2700	--
05...	9827	9827	--	--	--	--	--	--	--	--	--
NOV											
01...	9827	9827	266	8.1	13.0	15	9.4	1.2	840	30	--
30...	9827	9827	299	8.2	7.0	5	9.9	1.8	620	--	160
JAN											
19...	9827	9827	--	--	--	--	--	--	660	1300	--
FEB											
07...	9827	9827	--	--	--	--	--	--	250	<10	--
MAR											
14...	9827	9827	162	7.7	18.0	80	8.0	1.2	--	--	41
APR											
11...	9827	9827	119	7.3	21.0	240	6.2	2.1	--	--	--
MAY											
09...	9827	9827	177	7.9	23.0	40	7.4	1.5	40	220	--
JUN											
14...	9827	9827	284	8.2	27.0	25	7.8	1.9	--	--	--
JUL											
12...	9827	9827	233	8.2	30.0	--	7.9	2.4	65	--	--
AUG											
08...	9827	9827	290	7.0	29.0	20	8.9	--	230	--	--
SEP											
12...	9827	9827	268	8.4	28.0	10	9.8	3.3	--	--	120

DATE	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	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)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
04...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	6.0
NOV										
01...	--	--	--	--	--	--	--	--	--	7.0
30...	--	39	--	16	4.9	1.9	--	0	--	7.0
JAN										
19...	--	--	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	0	7.2	--	5.5	4.6	3.4	84	0	69	4.0
APR										
11...	--	--	--	--	--	--	--	--	--	5.0
MAY										
09...	--	--	--	--	--	--	--	--	--	4.0
JUN										
14...	--	--	--	--	--	--	--	--	--	7.0
JUL										
12...	--	--	--	--	--	--	--	--	--	7.0
AUG										
08...	--	--	--	--	--	--	--	--	--	7.0
SEP										
12...	--	--	13	--	4.8	2.2	--	--	--	10

07078285 WHITE RIVER AT LOCK AND DAM 1, NEAR NADY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
04...	--	139	62	<.10	--	--	.05	--	--	--	--	--
05...	14	--	--	--	--	--	--	--	--	--	--	--
NOV												
01...	7.0	178	51	.14	--	--	.09	--	--	--	--	--
30...	7.5	181	21	.12	--	--	.03	<3	10	<3	<10	690
FEB												
07...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	8.0	187	75	.58	--	--	.25	<3	<10	--	<10	6600
APR												
11...	4.5	149	27	.10	<.10	.21	.19	--	--	--	--	--
MAY												
09...	5.0	126	--	.19	.01	.15	.22	--	--	--	--	--
JUN												
14...	6.0	174	108	<.05	<.05	<.05	.18	--	--	--	--	--
JUL												
12...	8.0	--	86	.16	.01	.08	.10	--	--	--	--	--
AUG												
08...	5.5	176	79	<.05	<.05	--	.10	--	--	--	--	--
SEP												
12...	7.5	163	78	<.05	<.05	.42	.15	--	<10	<5	10	2300

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
04...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
05...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
01...	--	--	--	--	--	--	--	--	--	--	--	--
30...	<10	120	<.5	<10	--	--	--	--	--	--	--	--
FEB												
07...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
14...	10	150	--	50	--	--	--	--	--	--	--	--
APR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL												
12...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
AUG												
08...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP												
12...	<10	92	--	<10	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11070208, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
19...	9827	9827	9.0	305	7.9	13.0	--	11.0	1.0	210	90	--
NOV												
23...	9827	9827	4.0	309	8.3	10.5	0	14.3	2.7	--	--	--
DEC												
07...	9827	9827	--	--	--	--	--	--	--	<10	--	--
27...	9827	9827	--	328	8.4	8.0	0	18.0	4.7	--	--	140
JAN												
26...	9827	9827	--	--	--	--	--	--	--	--	--	--
FEB												
15...	9827	9827	20	--	--	--	--	--	--	93	5	--
MAR												
16...	9827	9827	76	276	8.0	15.0	5	11.9	2.5	--	--	140
APR												
19...	9827	9827	--	267	8.2	20.0	5	11.6	3.3	--	--	--
MAY												
17...	9827	9827	9.0	291	8.0	23.0	5	9.0	3.3	210	--	--
JUN												
14...	9827	9827	--	315	7.9	28.0	5	8.7	--	--	--	--
JUL												
19...	9827	9827	4.0	303	8.1	31.0	5	10.8	2.0	140	--	--
AUG												
16...	9827	9827	--	316	8.1	29.0	5	10.5	3.9	--	--	--
16...	9827	9827	--	--	--	--	--	--	--	980	--	--
SEP												
20...	9827	9827	--	--	7.8	23.0	0	9.3	1.9	2000	--	180

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	--	--	--	--	--	--	--	--	--	--	4.0
NOV											
23...	--	--	--	--	--	--	--	--	--	--	5.0
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	9	--	48	--	4.0	7.9	2.1	160	0	131	7.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
16...	17	--	52	--	2.1	4.9	1.8	150	0	123	7.0
APR											
19...	--	--	--	--	--	--	--	--	--	--	6.0
MAY											
17...	--	--	--	--	--	--	--	--	--	--	7.0
JUN											
14...	--	--	--	2.0	--	7.5	1.8	--	--	--	1.0
JUL											
19...	--	--	--	--	--	--	--	--	--	--	7.0
AUG											
16...	--	--	--	--	--	--	--	--	--	--	3.0
16...	--	--	--	--	--	--	--	--	--	--	--
SEP											
20...	--	69	--	2.0	--	18	2.5	--	--	--	8.0

07188820 LITTLE SUGAR CREEK AT CAVERNA, MO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT 19...	11	179	11	1.5	--	--	.13	--	--	--	--	--
NOV 23...	9.0	178	8	1.2	--	--	.22	--	--	--	--	--
DEC 27...	10	186	6	1.5	--	--	.17	<3	<10	<3	<10	<20
MAR 16...	7.5	168	19	1.7	--	--	.17	--	--	--	<10	540
APR 19...	7.0	164	9	1.4	--	.12	.20	--	--	--	--	--
MAY 17...	8.5	166	34	--	--	.01	.26	--	--	--	--	--
JUN 14...	10	189	9	.31	<.05	--	.25	--	<10	<3	<10	390
JUL 19...	9.5	325	14	.21	.01	.03	--	--	--	--	--	--
AUG 16...	12	192	44	.23	<.05	<.05	--	--	--	--	--	--
SEP 20...	9.0	202	8	.85	<.05	.07	.24	--	<10	8	<10	280

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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 19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC 27...	<10	40	<.5	<10	--	--	--	--	--	--	--	--
MAR 16...	<10	68	--	<10	--	--	--	--	--	--	--	--
APR 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 14...	--	56	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	<10	57	--	<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., Hydrologic Unit 11070208, 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 mi² (90.4 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	9827	9827	24	318	8.0	17.0	10	8.1	1.8	1800	--	--
NOV												
09...	9827	9827	18	320	8.2	11.0	20	10.9	1.8	60	--	160
DEC												
15...	9827	9827	18	333	8.2	8.0	0	12.6	2.5	93	--	--
JAN												
04...	9827	9827	18	332	8.1	3.0	0	12.4	1.6	100	--	--
FEB												
01...	9827	9827	18	--	--	--	--	--	--	15	10	--
MAR												
02...	9827	9827	18	--	--	--	--	--	--	10	--	--
APR												
05...	9827	9827	--	275	8.3	13.0	5	12.3	2.0	--	--	--
MAY												
03...	9827	9827	2.0	301	8.0	19.0	0	9.1	3.2	20	120	--
31...	9827	9827	1.0	314	7.9	23.0	0	7.1	1.4	24	530	--
JUL												
05...	9827	9827	30	330	8.0	26.0	10	8.7	4.8	87	500	--
AUG												
02...	9827	9827	2.0	350	8.0	24.0	5	8.8	2.2	280	--	190

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	5.0
NOV											
09...	12	--	57	--	5.0	4.6	1.2	180	0	148	9.0
DEC											
15...	--	--	--	--	--	--	--	--	--	--	8.0
JAN											
04...	--	--	--	--	--	--	--	--	--	--	6.0
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	10
MAY											
03...	--	51	--	5.0	--	4.5	1.1	--	--	--	9.0
31...	--	--	--	--	--	--	--	--	--	--	10
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	64	--	8.0	--	--	1.7	--	--	--	9.0

07188910 BUTLER CREEK NEAR SULPHUR SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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												
05...	8.5	184	2	.96	--	--	.02	--	--	--	--	--
NOV												
09...	10	194	--	.93	--	--	<.01	10	<3	<10	110	<10
DEC												
15...	12	199	--	1.1	--	--	.01	--	--	--	--	--
JAN												
04...	14	207	12	1.1	--	--	<.01	--	--	--	--	--
APR												
05...	7.0	168	10	.80	<.10	<.10	.02	--	--	--	--	--
MAY												
03...	7.5	190	<1	.65	.01	.06	.02	--	<3	--	--	10
31...	9.5	199	4	.62	.00	.01	.02	--	--	--	--	--
JUL												
05...	7.0	199	6	.86	.01	.04	.00	--	--	--	--	--
AUG												
02...	8.5	--	1	.61	.01	.02	.01	<10	--	<10	<30	<10

DATE	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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											
05...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	34	<.5	<10	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	<8	--	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	30	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110103, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	9827	9827	76	277	7.8	18.0	10	6.9	3.3	>2100	1700	--
NOV												
09...	9827	9827	76	301	8.0	12.0	10	10.6	2.1	50	--	150
DEC												
15...	9827	9827	16	267	8.1	8.0	5	13.0	4.2	140	--	--
27...	9827	9827	2.0	301	--	3.0	0	13.8	3.7	--	--	--
JAN												
04...	9827	9827	2.0	--	--	--	--	--	--	180	40	--
FEB												
01...	9827	9827	--	286	8.0	2.5	5	15.3	3.9	55	10	130
MAR												
02...	9827	9827	16	255	8.1	8.0	10	11.0	1.9	420	--	--
APR												
05...	9827	9827	106	193	7.8	12.0	40	10.1	1.5	--	--	--
MAY												
03...	9827	9827	5.0	276	8.1	22.0	0	11.0	--	--	140	--
31...	9827	9827	2.0	292	8.0	26.0	10	8.7	4.2	160	250	--
JUL												
05...	9827	9827	2.0	293	8.1	30.0	20	9.3	3.9	210	200	--
AUG												
02...	9827	9827	76	264	7.8	28.0	20	8.1	6.2	780	--	130
SEP												
06...	9827	9827	76	280	7.9	--	5	8.1	2.7	860	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	5.0
NOV											
09...	11	--	55	--	3.0	12	3.1	170	0	139	5.0
DEC											
15...	--	--	--	--	--	--	--	--	--	--	17
27...	--	--	--	--	--	--	--	--	--	--	9.0
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	23	--	48	--	3.0	6.8	1.9	130	0	107	20
MAR											
02...	--	--	--	--	--	--	--	--	--	--	26
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	47	--	2.0	--	4.7	2.0	--	--	--	7.0
31...	--	--	--	--	--	--	--	--	--	--	6.0
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	46	--	3.0	--	--	4.7	--	--	--	7.0
SEP											
06...	--	--	--	--	--	--	--	--	--	--	5.0

07194800 ILLINOIS RIVER AT SAVOY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
05...	10	160	22	.70	--	--	.07	--	--	--	--	--
NOV												
09...	11	176	3	.54	--	--	.04	--	<10	<3	<10	140
DEC												
15...	11	163	--	1.4	--	--	.14	--	--	--	--	--
27...	11	182	8	1.4	--	--	.05	--	--	--	--	--
FEB												
01...	12	172	4	1.1	--	--	.14	<3	<10	<3	<10	120
MAR												
02...	9.5	154	15	.77	--	--	.13	--	--	--	--	--
APR												
05...	6.5	130	10	--	--	--	--	--	--	--	--	--
MAY												
03...	9.5	162	15	1.4	.01	.09	.08	--	--	<3	<10	--
31...	11	170	15	.49	.01	.07	.08	--	--	--	--	--
JUL												
05...	11	179	21	.76	.01	.04	.08	--	--	--	--	--
AUG												
02...	9.5	--	13	.59	.02	.09	.08	--	<10	--	<10	570
SEP												
06...	11	170	40	.26	<.05	--	.11	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
05...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
09...	<10	2	<.5	<10	--	--	--	--	--	--	--	--
DEC												
15...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
27...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
01...	<10	<27	--	<10	--	--	--	--	--	--	--	--
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	<10	97	--	<10	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
05...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	<10	150	--	--	--	--	--	--	--	--	--	--
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110103, 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 mi^2 (337 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
19...	9827	9827	60	326	7.9	12.0	5	8.2	6.3	650	190	--
NOV												
23...	9827	9827	60	335	8.1	8.5	0	12.0	6.4	--	--	--
DEC												
07...	9827	9827	--	--	--	--	--	--	--	<20	--	--
27...	9827	9827	48	317	8.5	9.0	0	14.3	5.2	--	--	--
JAN												
26...	9827	9827	57	337	7.9	6.5	5	13.5	6.0	25	--	--
FEB												
15...	9827	9827	59	341	7.9	6.5	5	12.6	4.4	73	15	--
MAR												
16...	9827	9827	78	284	8.1	16.0	5	12.6	4.0	--	--	120
APR												
19...	9827	9827	76	293	8.1	21.0	10	11.0	5.2	--	--	--
MAY												
17...	9827	9827	51	327	7.9	23.0	10	8.6	>8.6	80	--	--
JUN												
14...	9827	9827	52	300	7.8	27.0	20	7.2	--	--	--	--
JUL												
19...	9827	9827	37	345	8.0	28.5	15	9.2	3.9	1400	--	--
AUG												
16...	9827	9827	36	355	8.1	28.0	10	8.6	4.2	1800	--	--
SEP												
20...	9827	9827	43	--	7.9	22.0	0	8.9	2.8	4700	--	140

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	--	--	--	--	--	--	--	--	--	--	9.0
NOV											
23...	--	--	--	--	--	--	--	--	--	--	10
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	7.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	11
FEB											
15...	--	--	--	--	--	--	--	--	--	--	13
MAR											
16...	13	--	46	--	1.6	11	3.3	130	0	107	10
APR											
19...	--	--	--	--	--	--	--	--	--	--	10
MAY											
17...	--	--	--	--	--	--	--	--	--	--	11
JUN											
14...	--	--	--	2.0	--	14	3.4	--	--	--	.0
JUL											
19...	--	--	--	--	--	--	--	--	--	--	14
AUG											
16...	--	--	--	--	--	--	--	--	--	--	9.0
SEP											
20...	--	53	--	2.0	--	18	4.5	--	--	--	17

07195000 OSAGE CREEK NEAR ELM SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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)
OCT											
19...	16	200	6	2.8	--	--	1.2	--	--	--	--
NOV											
23...	14	197	2	3.4	--	--	1.1	--	--	--	--
DEC											
27...	14	197	--	3.0	--	--	.69	--	--	--	--
JAN											
26...	20	213	4	2.8	--	--	1.3	--	--	--	--
FEB											
15...	17	209	4	3.3	--	--	1.6	--	--	--	--
MAR											
16...	14	175	11	2.5	--	--	.84	<10	--	<10	340
APR											
19...	14	191	15	4.3	--	.10	1.4	--	--	--	--
MAY											
17...	18	203	20	--	--	.06	1.8	--	--	--	--
JUN											
14...	16	192	25	3.0	<.05	--	1.6	<10	<3	<10	490
JUL											
19...	22	220	14	4.3	.01	.07	--	--	--	--	--
AUG											
16...	22	221	18	4.6	<.05	--	--	--	--	--	--
SEP											
20...	20	224	6	4.7	<.05	.05	2.1	<10	<5	<10	240

DATE	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											
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC											
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
16...	<10	77	<10	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	<10	71	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
SEP											
20...	<10	45	<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, Hydrologic Unit 11110103, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	9827	9827	140	277	7.8	17.0	5	7.8	2.7	>620	360	--
NOV												
09...	9827	9827	100	289	8.0	9.0	5	10.5	1.8	300	--	140
DEC												
15...	9827	9827	120	279	7.9	4.5	0	11.1	1.9	160	--	--
JAN												
04...	9827	9827	96	270	7.9	1.0	0	11.8	2.5	320	10	--
FEB												
01...	9827	9827	--	--	--	--	--	--	--	42	35	--
MAR												
02...	9827	9827	--	--	--	--	--	--	--	43	--	--
APR												
05...	9827	9827	610	202	7.9	12.0	40	9.0	1.6	--	--	--
MAY												
03...	9827	9827	160	272	7.8	19.0	0	6.8	2.4	1400	260	--
31...	9827	9827	100	285	7.9	24.5	10	6.7	2.2	600	290	--
JUL												
05...	9827	9827	120	263	7.7	28.0	20	7.2	>7.2	--	--	--
AUG												
02...	9827	9827	100	284	7.9	25.5	10	7.5	3.2	1200	--	120
SEP												
06...	9827	9827	76	301	7.9	25.5	0	7.5	2.6	1200	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	4.0
NOV											
09...	25	--	48	--	4.0	11	3.1	140	0	115	6.0
DEC											
15...	--	--	--	--	--	--	--	--	--	--	9.0
JAN											
04...	--	--	--	--	--	--	--	--	--	--	7.0
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	9.0
MAY											
03...	--	42	--	2.0	--	8.4	2.3	--	--	--	6.0
31...	--	--	--	--	--	--	--	--	--	--	7.0
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	44	--	2.0	--	--	3.3	--	--	--	8.0
SEP											
06...	--	--	--	--	--	--	--	--	--	--	6.0

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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												
05...	11	162	3	1.5	--	--	.32	--	--	<10	140	--
NOV												
09...	13	160	7	1.6	--	--	--	<10	<3	20	90	<10
DEC												
15...	13	162	5	2.0	--	--	.16	--	--	<10	<20	--
JAN												
04...	14	182	37	2.2	--	--	.25	--	--	10	310	--
APR												
05...	8.0	138	21	1.6	<.10	<.10	.17	--	--	<10	970	--
MAY												
03...	11	162	23	1.6	.01	.13	.30	--	<3	10	--	<10
31...	13	170	21	1.6	.01	.09	.39	--	--	110	550	--
JUL												
05...	13	164	18	1.7	.01	.09	.33	--	--	<10	730	--
AUG												
02...	14	--	23	.92	.01	.07	.37	<10	--	<10	660	<10
SEP												
06...	16	182	24	.89	<.05	--	.46	--	--	--	--	--

DATE	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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											
05...	38	--	<10	--	--	--	--	--	--	--	--
NOV											
09...	14	<.5	10	.00	.00	.00	.00	.00	.00	.00	0
DEC											
15...	<27	--	70	--	--	--	--	--	--	--	--
JAN											
04...	31	--	<10	--	--	--	--	--	--	--	--
APR											
05...	79	--	<10	--	--	--	--	--	--	--	--
MAY											
03...	74	--	<10	--	--	--	--	--	--	--	--
31...	77	--	50	--	--	--	--	--	--	--	--
JUL											
05...	91	--	<10	--	--	--	--	--	--	--	--
AUG											
02...	88	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110103, 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.--16 years, 14.6 ft^3/s (0.41 m^3/s), 13.96 in/yr (355 mm/yr), 10,600 acre-ft/yr (13.1 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.--Maximum discharge, 1,280 ft^3/s (36.2 m^3/s) Sept. 29 at 0200 hours, gage height, 9.25 ft (2.819 m) from floodmark, no other peak above base of 260 ft^3/s (7.4 m^3/s); minimum, 0.35 ft^3/s (0.01 m^3/s) Aug. 9, 10, gage height, 3.04 ft (0.927 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	8.0	7.7	6.2	8.1	7.8	20	7.6	4.8	7.6	4.2	4.2
2	7.6	7.9	7.6	6.5	7.8	7.7	20	7.0	4.6	5.7	4.0	3.6
3	7.5	7.6	7.5	6.7	8.8	8.0	17	6.7	4.4	4.8	3.3	3.3
4	7.7	7.6	7.4	6.8	9.2	7.2	16	6.5	4.0	4.4	2.5	3.3
5	19	7.7	7.5	6.9	8.8	6.9	14	6.5	3.8	4.0	1.9	5.0
6	11	7.8	20	6.8	8.4	6.7	13	5.9	3.6	3.6	1.5	4.4
7	8.9	7.7	13	6.7	8.3	6.7	12	5.7	3.8	3.6	1.1	4.2
8	8.0	7.7	11	6.7	8.1	6.7	11	5.9	3.8	3.5	.84	4.0
9	8.0	7.9	9.6	6.8	7.9	6.7	10	7.0	3.8	3.6	.56	3.6
10	8.0	7.9	9.2	7.0	7.9	6.7	9.5	5.7	3.6	4.2	2.2	3.3
11	7.8	9.3	8.8	7.0	8.0	20	9.2	5.4	3.0	3.8	3.0	4.6
12	7.5	8.8	8.5	7.0	9.7	20	9.2	5.2	3.2	3.3	3.3	5.4
13	7.2	7.9	7.8	7.0	8.6	17	8.8	5.0	4.0	2.5	4.2	4.6
14	6.8	8.0	7.5	7.2	8.5	14	8.2	4.8	4.8	1.8	4.4	5.2
15	7.3	8.0	7.5	7.1	8.1	12	7.9	5.0	4.2	1.3	4.2	5.7
16	7.4	7.8	7.4	7.0	7.8	10	8.5	4.8	3.8	.91	3.5	4.8
17	6.8	7.7	7.1	7.0	7.7	10	8.2	4.8	3.5	2.5	7.0	4.4
18	7.1	7.5	7.0	7.0	7.7	11	8.5	4.8	2.9	3.2	5.7	4.0
19	7.7	6.8	7.0	7.0	7.4	9.1	8.2	5.4	4.4	2.7	4.4	3.3
20	7.5	6.5	6.7	7.0	7.4	8.3	7.9	5.7	4.8	8.5	4.4	3.3
21	7.3	6.4	6.7	7.0	7.2	7.9	7.9	6.2	4.6	6.7	4.0	3.1
22	7.4	6.4	6.7	7.0	7.0	7.5	7.6	5.4	3.8	6.2	3.8	3.4
23	7.8	6.7	6.7	7.8	7.6	6.8	7.9	5.2	3.5	4.8	4.2	3.0
24	8.0	6.7	6.7	8.0	7.3	6.7	7.6	5.4	3.6	4.4	4.0	8.2
25	7.5	7.0	6.7	8.2	7.1	6.7	7.6	5.0	4.0	4.2	3.8	5.0
26	7.4	17	6.6	8.8	8.5	6.6	7.3	5.0	4.4	5.0	3.6	3.3
27	7.0	9.5	6.7	9.5	8.4	32	7.0	4.6	4.0	5.9	3.3	3.4
28	7.0	8.6	6.7	9.3	8.0	44	6.7	4.6	4.2	5.4	4.4	45
29	7.7	8.2	6.6	8.6	---	37	6.7	5.0	8.8	5.0	6.7	363
30	9.6	8.0	6.7	8.4	---	30	7.3	4.8	5.0	4.8	4.8	65
31	8.3	---	6.3	8.3	---	25	---	5.0	---	4.6	4.4	---
TOTAL	251.5	240.6	248.9	228.3	225.3	412.7	300.7	171.6	124.7	132.51	113.20	586.6
MEAN	8.11	8.02	8.03	7.36	8.05	13.3	10.0	5.54	4.16	4.27	3.65	19.6
MAX	19	17	20	9.5	9.7	44	20	7.6	8.8	8.5	7.0	363
MIN	6.8	6.4	6.3	6.2	7.0	6.6	6.7	4.6	2.9	.91	.56	3.0
CFSM	.57	.57	.57	.52	.57	.94	.70	.39	.29	.30	.26	1.38
IN.	.66	.63	.65	.60	.59	1.08	.79	.45	.33	.35	.30	1.54
AC-FT	499	477	494	453	447	819	596	340	247	263	225	1160

CAL YR 1976 TOTAL 4724.80 MEAN 12.9 MAX 307 MIN 5.3 CFSM .91 IN 12.38 AC-FT 9370
WTR YR 1977 TOTAL 3036.61 MEAN 8.32 MAX 363 MIN .56 CFSM .59 IN 7.95 AC-FT 6020

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, Hydrologic Unit 11110103, 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 mi² (88.1 km²), 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	9827	9827	14	213	7.8	18.0	10	8.0	2.2	3500	--	--
NOV												
09...	9827	9827	2.5	220	7.9	10.5	10	10.3	1.7	160	--	100
DEC												
15...	9827	9827	2.5	209	7.9	6.0	0	12.0	2.0	10	--	--
JAN												
04...	9827	9827	2.5	226	8.1	3.0	0	12.4	2.6	93	--	--
FEB												
01...	9827	9827	--	--	--	--	--	--	--	5	5	--
01...	--	--	2.5	--	--	--	--	--	--	--	--	--
MAR												
02...	9827	9827	5.0	--	--	--	--	--	--	40	--	--
APR												
05...	9827	9827	2.5	197	8.0	14.0	5	11.3	1.7	--	--	--
MAY												
03...	9827	9827	--	215	7.9	19.0	0	8.5	1.8	--	400	--
31...	9827	9827	--	203	7.8	23.0	5	8.0	2.4	510	760	--
JUL												
05...	9827	9827	--	247	8.0	27.0	10	8.2	2.6	--	--	--
05...	9827	9827	--	--	--	--	--	--	--	120	160	--
AUG												
02...	9827	9827	--	234	7.8	24.5	5	8.1	2.4	370	--	110
SEP												
06...	9827	9827	--	240	7.8	25.5	0	7.7	1.2	460	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	5.0
NOV											
09...	2	--	38	--	1.0	5.7	1.6	120	0	98	7.0
DEC											
15...	--	--	--	--	--	--	--	--	--	--	5.0
JAN											
04...	--	--	--	--	--	--	--	--	--	--	1.0
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	5.0
MAY											
03...	--	38	--	1.0	--	4.3	1.3	--	--	--	1.0
31...	--	--	--	--	--	--	--	--	--	--	3.0
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	42	--	2.0	--	--	1.8	--	--	--	3.0
SEP											
06...	--	--	--	--	--	--	--	--	--	--	4.0

07195850 FLINT CREEK NORTH OF SILOAM SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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												
05...	8.5	122	18	.81	--	--	.07	--	--	--	--	--
NOV												
09...	7.5	125	15	.87	--	--	.02	20	<3	<10	<20	<10
DEC												
15...	9.0	126	5	1.5	--	--	.01	--	--	--	--	--
JAN												
04...	9.5	--	--	--	--	--	--	--	--	--	--	--
APR												
05...	7.5	121	8	1.4	<.10	<.10	.03	--	--	--	--	--
MAY												
03...	7.5	131	9	.98	.01	.07	.02	--	<3	30	--	20
31...	8.0	131	11	.05	.01	.09	.03	--	--	--	--	--
JUL												
05...	8.0	152	5	.39	.01	.05	.01	--	--	--	--	--
AUG												
02...	8.0	--	10	.55	.01	.07	.03	<10	--	<10	370	20
SEP												
06...	9.0	147	8	.45	<.05	--	.06	--	--	--	--	--

DATE	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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											
05...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	25	<.5	<10	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN											
04...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	120	--	20	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	170	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110103, 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.--19 years, 40.3 ft^3/s (1.14 m^3/s), 11.90 in/yr (302 mm/yr), 29,200 acre-ft/yr (36.0 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, 7,480 ft^3/s (212 m^3/s) Mar. 27 at 0800 hours, gage height, 10.49 ft (3.197 m), no other peak above base of 2,000 ft^3/s (56 m^3/s); minimum, 0.10 ft^3/s (0.003 m^3/s) June 23, 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	8.4	2.3	2.3	16	15	58	7.0	.99	1.1	4.5	1.6
2	1.1	7.0	2.2	2.3	11	13	109	7.2	.88	1.3	3.0	1.3
3	1.1	6.5	2.1	2.2	11	16	67	7.5	.74	.74	4.8	1.0
4	1.8	7.4	2.1	2.3	15	17	52	6.6	.64	.46	3.6	.90
5	8.3	7.9	2.0	2.4	15	14	42	5.9	.55	.38	2.2	1.2
6	6.6	8.9	44	2.3	12	12	35	5.1	.45	.31	1.7	2.8
7	3.3	7.9	29	2.3	10	11	29	4.5	.42	.25	1.3	2.2
8	2.3	7.7	16	2.2	9.3	9.8	25	4.3	.34	.21	1.1	2.2
9	1.8	7.9	11	2.4	8.6	8.9	23	5.3	.31	29	.74	1.7
10	1.6	8.0	8.7	2.3	8.7	8.4	21	4.3	.33	20	.62	1.2
11	1.5	13	7.6	2.2	9.7	161	19	3.4	.28	3.3	9.0	2.2
12	1.3	12	6.3	2.1	12	111	18	3.1	.27	1.6	6.0	3.7
13	1.3	8.4	5.5	2.2	13	55	17	2.6	.21	.92	3.8	4.4
14	1.2	6.6	4.9	2.3	11	39	16	2.3	.21	.62	2.8	35
15	1.2	5.7	4.3	2.5	9.2	29	16	2.1	.19	.54	2.2	58
16	1.3	4.8	4.0	2.6	7.8	23	16	1.9	.19	.46	1.6	25
17	1.3	4.5	3.7	2.7	7.3	21	15	1.8	.20	.43	2.8	16
18	1.8	4.0	3.5	2.8	6.8	20	15	1.5	.19	.39	5.1	11
19	3.0	3.8	3.1	2.9	6.3	17	15	1.4	.18	.36	3.1	8.5
20	3.4	3.4	2.9	3.0	5.8	15	14	2.8	.19	.40	2.1	6.5
21	3.4	3.2	2.9	3.3	5.6	13	14	3.7	.17	.50	1.5	5.3
22	4.1	2.7	2.8	3.5	5.6	12	13	3.4	.14	15	1.3	4.5
23	6.2	2.5	2.7	3.8	39	11	11	2.6	.12	12	1.8	3.9
24	12	2.2	2.6	5.7	24	10	11	2.1	.22	2.0	1.5	4.0
25	12	2.3	2.6	8.3	17	9.8	9.9	1.6	.29	1.1	1.3	3.7
26	10	3.4	2.5	10	17	9.6	8.6	1.4	.45	1.0	1.2	3.3
27	6.1	3.4	2.5	16	21	1640	7.8	1.3	.41	50	1.0	3.2
28	4.5	3.0	2.5	21	17	865	7.3	1.0	.38	15	1.2	3.6
29	5.0	2.6	2.4	20	---	196	6.8	1.1	.37	7.5	3.0	47
30	10	2.4	2.4	18	---	105	6.4	1.0	.41	7.8	2.6	23
31	12	---	2.3	18	---	73	---	1.1	---	7.1	2.0	---
TOTAL	131.7	171.5	193.4	175.9	351.7	3560.5	717.8	100.9	10.72	181.77	80.46	287.90
MEAN	4.25	5.72	6.24	5.67	12.6	115	23.9	3.25	.36	5.86	2.60	9.60
MAX	12	13	44	21	39	1640	109	7.5	.99	50	9.0	58
MIN	1.1	2.2	2.0	2.1	5.6	8.4	6.4	1.0	.12	.21	.62	.90
CFSM	.09	.12	.14	.12	.27	2.50	.52	.07	.008	.13	.06	.21
IN.	.11	.14	.16	.14	.28	2.88	.58	.08	.01	.15	.07	.23
AC-FT	261	340	384	349	698	7060	1420	200	21	361	160	571

CAL YR 1976	TOTAL	9707.90	MEAN	26.5	MAX	3150	MIN	.17	CFSM	.58	IN	7.85	AC-FT	19260
WTR YR 1977	TOTAL	5964.25	MEAN	16.3	MAX	1640	MIN	.12	CFSM	.35	IN	4.82	AC-FT	11830

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	9827	9827	12	277	7.8	18.0	10	7.1	2.2	>500	--	--
12...	1028	1028	1.3	--	--	14.5	--	--	--	--	--	--
NOV												
07...	9827	9827	7.9	330	8.0	7.5	5	10.8	1.8	--	--	160
09...	9827	9827	--	--	--	--	--	--	--	250	--	--
24...	1028	1028	2.3	--	--	6.0	--	--	--	--	--	--
DEC												
15...	9827	9827	4.3	351	8.0	2.5	0	10.7	6.5	550	--	--
JAN												
04...	9827	9827	2.3	363	--	1.5	0	12.8	2.4	190	10	--
05...	1028	1028	2.4	--	--	2.5	--	--	--	--	--	--
FEB												
01...	9827	9827	--	--	--	--	--	--	--	25	5	--
16...	1028	1028	7.1	--	--	5.5	--	--	--	--	--	--
MAR												
02...	9827	9827	13	--	--	--	--	--	--	150	--	--
30...	1028	1028	99	--	--	15.0	--	--	--	--	--	--
APR												
05...	9827	9827	43	247	7.9	10.0	10	10.4	--	--	--	--
MAY												
03...	9827	9827	7.5	300	8.0	19.0	0	7.1	1.9	410	430	--
10...	1028	1028	4.7	--	--	19.5	--	--	--	--	--	--
31...	9827	9827	1.1	265	7.9	25.0	5	8.6	4.7	13	170	--
JUN												
20...	1028	1028	.14	--	--	26.5	--	--	--	--	--	--
JUL												
05...	9827	9827	.50	253	7.9	28.0	10	8.0	3.6	150	80	--
AUG												
02...	9827	9827	3.0	273	7.9	25.0	10	7.5	1.5	1400	--	140
03...	1028	1028	4.7	--	--	28.0	--	--	--	--	--	--
SEP												
06...	9827	9827	3.7	271	7.7	25.0	0	4.8	2.9	830	--	--
14...	1028	1028	6.2	--	--	21.5	--	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	8.0
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
07...	21	--	58	--	3.0	8.0	2.6	170	0	139	25
09...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	23
JAN											
04...	--	--	--	--	--	--	--	--	--	--	24
05...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	--	--	--	--	--	--	--	--	--	13
MAY											
03...	--	50	--	3.0	--	5.0	1.8	--	--	--	12
10...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	10
JUN											
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	51	--	3.0	--	--	2.8	--	--	--	19
03...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--			
14...	--	--	--								

07196900 BARON FORK AT DUTCH MILLS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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												
05...	7.5	157	--	.35	--	--	.05	--	--	<10	180	--
NOV												
07...	9.5	190	7	.20	--	--	--	<10	<3	<10	30	<10
DEC												
15...	11	211	--	1.7	--	--	.47	--	--	20	3300	--
JAN												
04...	12	228	5	1.4	--	--	.15	--	--	<10	<20	--
APR												
05...	6.5	151	4	1.6	<.10	<.10	.06	--	--	<10	270	--
MAY												
03...	8.0	174	6	.61	.01	.09	.05	--	<3	<10	--	<10
31...	8.0	159	7	.05	.00	.05	.06	--	--	<10	<30	--
JUL												
05...	8.5	149	5	.07	.00	.01	.01	--	--	<10	190	--
AUG												
02...	9.0	--	8	.44	.01	.05	.02	<10	--	<10	400	10
SEP												
06...	9.5	157	7	.08	<.05	--	.08	--	--	--	--	--

DATE	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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											
05...	68	--	<10	--	--	--	--	--	--	--	--
NOV											
07...	11	<.5	<10	.00	.00	.00	.00	.00	.00	.00	0
DEC											
15...	890	--	80	--	--	--	--	--	--	--	--
JAN											
04...	<27	--	<10	--	--	--	--	--	--	--	--
APR											
05...	28	--	20	--	--	--	--	--	--	--	--
MAY											
03...	48	--	<10	--	--	--	--	--	--	--	--
31...	55	--	50	--	--	--	--	--	--	--	--
JUL											
05...	74	--	<10	--	--	--	--	--	--	--	--
AUG											
02...	39	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110105, 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. As of September 1974, flow from 84.8 mi^2 (220 km^2) above this station is controlled by 14 floodwater-detention reservoirs with a total combined capacity of 36,720 acre-ft (45.3 hm^3) below the flood-spillway crests, of which 30,275 acre-ft (37.3 hm^3) is flood-detention capacity, 2,100 acre-ft (2.58 hm^3) is water-supply storage, and 3,111 acre-ft (3.84 hm^3) is sediment-storage capacity.

AVERAGE DISCHARGE.--38 years, 214 ft^3/s (6.06 m^3/s), 14.32 in/yr (364 mm/yr), 155,000 acre-ft/yr (191 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, 11,400 ft^3/s (323 m^3/s) Mar. 28, gage height, 19.20 ft (5.852 m); minimum, 0.5 ft^3/s (0.014 m^3/s) Aug. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	41	13	11	105	93	643	44	3.4	2.8	.51	11
2	.90	27	12	10	95	84	495	43	2.8	2.5	7.5	5.2
3	1.1	19	10	9.9	149	2220	405	34	2.4	3.0	9.0	2.5
4	4.0	14	9.6	9.5	266	1860	357	31	2.0	2.4	4.6	1.6
5	15	11	8.7	9.5	193	654	298	28	1.8	.92	2.2	1.6
6	13	8.7	67	11	156	397	248	25	1.8	1.1	1.7	1.9
7	10	7.0	293	12	135	304	207	22	1.6	1.1	1.4	1.5
8	10	6.0	133	13	119	252	174	19	1.3	.78	1.0	1.2
9	7.6	5.2	80	22	107	214	150	15	1.2	.91	1.1	1.0
10	6.0	5.2	64	28	96	184	131	15	1.0	5.5	1.2	.65
11	5.2	4.5	498	29	90	364	114	12	.85	7.8	.78	.58
12	3.5	2.6	391	23	316	573	95	9.8	.85	8.9	.60	.58
13	3.0	3.5	197	43	245	310	80	7.6	1.0	10	.85	8.2
14	2.0	4.7	132	1070	189	250	68	6.1	1.1	2.6	1.1	223
15	2.0	6.0	100	727	155	209	58	5.2	1.1	1.8	.78	131
16	1.8	5.8	80	463	130	176	50	4.9	1.1	3.4	.80	41
17	.85	6.0	64	240	116	153	45	4.2	.85	4.2	1.6	22
18	.60	6.0	53	193	113	138	102	3.7	.85	3.2	1.9	11
19	.60	5.8	46	151	102	120	150	3.0	.78	2.8	2.3	7.6
20	.69	5.8	40	132	89	104	134	4.5	.65	2.2	2.4	4.7
21	.54	29	35	129	78	89	275	6.9	.60	1.7	2.4	3.2
22	.48	36	30	143	73	79	728	7.6	.60	1.1	2.0	2.5
23	.91	23	27	242	75	68	275	8.1	.59	1.3	1.7	3.8
24	2.6	17	25	376	120	60	201	11	.55	1.2	1.9	21
25	262	13	23	298	91	56	159	11	.60	.78	2.2	52
26	176	12	20	245	79	54	129	10	1.1	.78	1.9	23
27	64	12	19	226	133	3090	104	8.1	17	.68	1.8	10
28	34	19	17	205	112	8350	80	6.9	22	.65	2.0	7.1
29	22	18	16	18	---	1450	66	6.5	12	.56	51	5.6
30	25	16	14	139	---	1010	53	5.5	5.2	.52	61	3.7
31	56	---	13	118	---	795	---	4.5	---	.51	25	---
TOTAL	732.17	389.8	2530.3	5491.9	3727	23760	6074	423.1	88.67	77.69	196.22	609.71
MEAN	23.6	13.0	81.6	177	133	766	202	13.6	2.96	2.51	6.33	20.3
MAX	262	41	498	1070	316	8350	728	44	22	10	61	223
MIN	.48	2.6	8.7	9.5	73	54	45	3.0	.55	.51	.51	.58
AC-FT	1450	773	5020	10890	7390	47130	12050	839	176	154	389	1210

CAL YR 1976 TOTAL 16431.87 MEAN 44.9 MAX 2220 MIN .00 AC-FT 32590
WTR YR 1977 TOTAL 44100.56 MEAN 121 MAX 8350 MIN .48 AC-FT 87470

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, Hydrologic Unit 11110105, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	9827	9827	21	74	6.9	21.0	120	--	--	>3700	3700	28
11...	9827	9827	--	--	--	--	--	--	--	--	--	--
NOV												
02...	9827	9827	50	84	6.9	16.0	50	8.3	3.9	460	30	--
30...	9827	9827	22	96	7.2	10.0	50	10.5	2.9	--	--	--
30...	9827	9827	--	--	--	--	--	--	--	180	--	--
JAN												
04...	9827	9827	13	96	7.4	11.0	30	12.5	4.0	250	10	26
FEB												
01...	9827	9827	130	--	--	--	--	--	--	310	<5	--
MAR												
01...	9827	9827	--	--	--	--	--	--	--	30	10	--
APR												
05...	9827	9827	379	52	7.0	16.0	55	9.2	2.8	--	--	11
MAY												
03...	9827	9827	33	63	7.2	25.0	20	8.1	4.4	20	15	--
04...	9827	9827	--	--	--	--	--	--	--	--	--	--
31...	9827	9827	7.9	80	--	29.0	20	5.7	3.9	40	80	--
JUL												
05...	9827	9827	1.5	105	7.5	33.0	20	6.5	2.0	--	32	--
AUG												
02...	9827	9827	11	100	7.4	30.0	20	7.0	--	980	--	--
SEP												
06...	9827	9827	--	116	7.5	29.0	10	7.0	3.2	300	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
05...	10	--	5.0	--	4.0	7.0	2.8	22	--	18	21
11...	--	--	--	--	--	--	--	--	--	--	--
NOV											
02...	--	--	--	--	--	--	--	--	--	--	21
30...	--	--	--	--	--	--	--	--	--	--	21
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	8	--	2.0	--	5.0	8.7	1.9	22	0	18	17
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	1.0	--	1.4	--	4.1	1.6	--	--	--	7.0
MAY											
03...	--	--	--	--	--	--	--	--	--	--	6.0
04...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	13
JUL											
05...	--	--	--	4.0	--	7.1	2.7	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	6.0
SEP											
06...	--	--	--	--	--	--	--	--	--	--	6.0

07247012 POTEAU RIVER SOUTH OF BATES, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT								
05...	4.5	76	25	.14	--	--	.10	<3
11...	--	87	17	--	--	--	--	--
NOV								
02...	6.0	--	--	.23	--	--	.08	--
30...	8.0	77	6	.18	--	--	.06	--
JAN								
04...	8.5	71	--	.26	--	--	.06	<3
APR								
05...	4.0	54	11	.18	<.10	.11	.05	<10
MAY								
03...	5.0	56	13	--	--	--	--	--
04...	--	--	--	<.05	.01	.06	.07	--
31...	5.5	60	8	.07	.00	.07	.05	--
JUL								
05...	8.0	--	8	.07	.00	.05	.01	--
AUG								
02...	6.5	66	14	.00	.01	.04	.03	--
SEP								
06...	10	70	10	<.05	<.05	--	.08	--

DATE	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)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT								
05...	<10	<3	<10	2400	<10	220	.5	<10
11...	--	--	--	--	--	--	--	--
NOV								
02...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
JAN								
04...	<10	<3	<10	1000	<10	130	--	<10
APR								
05...	<10	--	<10	1200	<10	79	--	30
MAY								
03...	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
JUL								
05...	<10	<10	20	550	<10	300	--	<10
AUG								
02...	--	--	--	--	--	--	--	--
SEP								
06...	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110105, 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.--19 years, 129 ft^3/s (3.65 m^3/s), 11.92 in/yr (303 mm/yr), 93,460 acre-ft/yr (115 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, 6,300 ft^3/s (178 m^3/s) Mar. 28 at 0700 hours, gage height, 20.31 ft (6.190 m), no other peak above base of 3,000 ft^3/s (85 m^3/s); minimum, 0.22 ft^3/s (0.006 m^3/s) Aug. 12-13, gage height, 0.20 ft (0.061 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	36	13	22	73	82	284	31	9.9	3.6	1.7	1.8
2	.68	34	23	21	68	66	260	36	9.6	3.6	1.1	1.5
3	.66	29	22	21	97	867	219	33	9.3	3.1	.88	1.1
4	.93	22	23	21	173	935	183	31	8.5	2.6	.65	.96
5	112	20	24	23	129	366	151	31	6.0	2.3	.47	6.9
6	91	18	100	28	102	275	123	31	4.6	3.3	.36	24
7	36	17	211	26	82	218	104	31	3.6	8.8	.32	14
8	24	17	97	27	70	179	87	30	3.1	8.8	.28	5.1
9	18	18	66	35	63	151	70	29	2.5	9.3	.24	3.2
10	14	17	51	37	60	124	59	27	1.6	9.3	.25	2.2
11	7.6	16	290	37	64	592	57	26	1.6	13	.26	1.5
12	3.1	18	253	37	221	815	51	26	1.6	8.5	.23	1.2
13	1.7	24	136	39	158	331	49	23	1.6	5.2	.24	15
14	2.8	24	95	411	120	258	42	20	1.7	3.3	1.8	104
15	7.5	23	77	452	95	205	34	19	1.2	2.8	5.8	40
16	8.7	22	55	289	76	168	26	18	1.2	2.8	3.4	21
17	12	22	42	187	68	138	28	16	1.1	2.8	2.5	16
18	10	21	35	155	65	121	58	17	1.1	2.2	3.2	14
19	7.5	20	31	115	62	99	68	21	1.1	1.8	2.5	13
20	4.9	47	29	86	55	82	70	24	1.2	1.9	1.9	12
21	3.4	84	28	91	58	71	77	25	1.1	2.5	12	12
22	5.9	46	27	129	57	57	72	21	1.1	7.1	15	13
23	10	34	26	292	223	54	57	21	1.0	6.9	14	13
24	15	30	25	350	209	49	47	19	.96	5.6	11	13
25	288	29	24	269	129	47	44	18	1.8	3.3	8.5	12
26	127	27	24	237	100	46	39	18	53	1.9	7.3	12
27	61	26	23	216	100	2440	35	19	12	1.9	6.5	11
28	48	21	23	175	91	5450	34	16	6.6	1.7	5.4	10
29	43	12	23	123	---	1180	33	12	5.6	2.1	7.0	7.2
30	57	9.5	22	105	---	525	32	11	4.4	1.9	4.1	4.0
31	61	---	22	86	---	359	---	10	---	1.8	2.7	---
TOTAL	1083.02	783.5	1940	4142	2868	16350	2493	710	159.66	135.7	121.58	405.66
MEAN	34.9	26.1	62.6	134	102	527	83.1	22.9	5.32	4.38	3.92	13.5
MAX	288	84	290	452	223	5450	284	36	53	13	15	104
MIN	.65	9.5	13	21	55	46	26	10	.96	1.7	.23	.96
CFSM	.24	.18	.43	.91	.69	3.59	.57	.16	.04	.03	.03	.09
IN.	.27	.20	.49	1.05	.73	4.14	.63	.18	.04	.03	.03	.10
AC-FT	2150	1550	3850	8220	5690	32430	4940	1410	317	269	241	805

CAL YR 1976 TOTAL 13363.71 MEAN 36.5 MAX 1240 MIN .38 CFSM .25 IN 3.38 AC-FT 26510
WTR YR 1977 TOTAL 31192.12 MEAN 85.5 MAX 5450 MIN .23 CFSM .58 IN 7.89 AC-FT 61870

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	9827	9827	55	471	7.9	24.0	100	6.6	3.4	8700	14000	120
11...	9827	9827	--	--	--	--	--	--	--	--	--	--
19...	1028	1028	8.0	--	--	12.0	--	--	--	--	--	--
NOV												
02...	9827	9827	38	398	7.2	13.0	55	8.8	.7	620	40	--
30...	9827	9827	9.5	401	7.5	7.0	30	11.0	1.5	140	--	--
DEC												
01...	1028	1028	8.1	--	--	3.0	--	--	--	--	--	--
JAN												
04...	9827	9827	21	395	7.6	8.0	10	12.0	.9	20	<10	130
20...	1028	1028	85	--	--	2.0	--	--	--	--	--	--
FEB												
01...	9827	9827	--	--	--	--	--	--	--	40	5	--
22...	1028	1028	58	--	--	9.0	--	--	--	--	--	--
MAR												
01...	9827	9827	--	--	--	--	--	--	--	70	25	--
APR												
05...	9827	9827	179	238	7.1	15.0	90	8.8	.5	--	--	72
05...	1028	1028	160	--	--	14.0	--	--	--	--	--	--
MAY												
03...	9827	9827	30	417	7.6	23.0	5	7.8	.9	20	50	--
17...	1028	1028	16	--	--	22.5	--	--	--	--	--	--
31...	9827	9827	12	593	--	29.0	15	7.3	1.3	10	12	--
JUN												
28...	1028	1028	6.7	--	--	24.5	--	--	--	--	--	--
JUL												
05...	9827	9827	2.3	672	8.2	32.0	30	7.8	3.2	--	130	--
AUG												
02...	9827	9827	1.2	595	7.9	30.0	15	7.2	--	360	--	--
09...	1028	1028	.24	--	--	26.0	--	--	--	--	--	--
SEP												
06...	9827	9827	--	431	7.8	27.0	100	4.7	4.2	13000	--	--
19...	1028	1028	14	--	--	23.0	--	--	--	--	--	--
21...	--	--	--	350	7.6	22.0	--	6.2	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
05...	0	--	27	--	14	69	5.0	180	--	148	110
11...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
02...	--	--	--	--	--	--	--	--	--	--	130
30...	--	--	--	--	--	--	--	--	--	--	110
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	90	--	25	--	16	23	2.3	49	0	40	110
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	--	9.2	--	11	--	15	2.8	--	--	--	81
05...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	1.8	--	--	--	150
17...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	270
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	20	--	75	3.3	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	200
09...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	85
19...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--

07249400 JAMES FORK NEAR HACKETT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
05...	12	324	58	.22	--	--	.08	<3	<10	<3	20	3400
11...	--	283	11	--	--	--	--	--	--	--	--	--
NOV												
02...	7.5	--	--	.31	--	--	.01	--	--	--	60	1900
30...	8.5	278	3	.25	--	--	.03	--	--	--	110	920
JAN												
04...	9.5	272	6	.70	--	--	<.01	<3	<10	<3	170	620
APR												
05...	6.0	168	15	.87	<.10	.14	.05	<10	<10	--	50	1800
MAY												
03...	7.0	283	7	.71	.01	.07	.02	--	--	--	90	970
31...	8.0	431	10	.22	.00	.08	.03	--	--	--	70	180
JUL												
05...	23	--	17	.09	.01	.04	.01	--	<10	<10	180	920
AUG												
02...	10	399	12	.00	.01	.04	.01	--	--	--	50	<30
SEP												
06...	12	342	159	.19	<.05	--	.30	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
05...	<10	250	.5	50	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
02...	--	300	--	80	--	--	--	--	--	--	--	--
30...	--	130	--	80	.00	.00	.00	.00	.00	.00	.00	0
JAN												
04...	30	230	--	140	--	--	--	--	--	--	--	--
APR												
05...	20	320	--	80	--	--	--	--	--	--	--	--
MAY												
03...	--	170	--	60	--	--	--	--	--	--	--	--
31...	--	290	--	100	--	--	--	--	--	--	--	--
JUL												
05...	40	460	--	120	--	--	--	--	--	--	--	--
AUG												
02...	--	220	--	30	--	--	--	--	--	--	--	--
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--

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., Hydrologic Unit 11110104, 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.--33 years (1930-36, 1950-77), 506 ft^3/s (14.3 m^3/s), 16.13 in/yr (410 mm/yr), 366,600 acre-ft/yr (452 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.--Maximum discharge, 30,200 ft^3/s (855 m^3/s) Mar. 27 at 2000 hours, gage height, 20.54 ft (6.261 m), no other peak above base of 13,000 ft^3/s (370 m^3/s); minimum, 1.6 ft^3/s (0.045 m^3/s) June 24, gage height, 0.52 ft (0.158 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	145	48	58	213	446	1270	90	14	22	72	18
2	9.4	132	46	58	192	383	1070	84	13	37	61	15
3	8.4	118	44	56	196	423	902	80	11	38	49	14
4	8.4	102	43	55	224	442	746	74	9.9	51	44	12
5	17	90	41	53	265	414	616	68	8.9	37	34	15
6	92	82	203	55	285	367	516	65	7.5	28	28	21
7	78	74	773	53	265	326	451	59	6.7	22	23	14
8	59	68	604	51	235	296	383	56	6.0	20	19	11
9	48	63	396	58	213	269	346	51	5.3	19	17	11
10	40	59	307	55	199	249	315	46	5.0	15	15	13
11	34	65	311	53	189	1850	285	43	4.5	13	13	13
12	29	97	292	49	246	4390	253	40	4.0	11	12	13
13	25	95	249	53	303	2010	231	37	3.6	11	12	17
14	23	95	217	53	326	1300	213	35	3.3	8.9	17	22
15	21	102	192	58	289	968	196	32	3.1	7.1	20	90
16	18	107	182	63	253	733	185	29	2.7	6.0	16	330
17	16	102	160	65	227	598	175	25	2.4	5.3	15	196
18	15	97	142	65	210	610	175	22	2.4	4.5	12	132
19	14	90	129	65	189	526	172	20	2.4	4.0	12	102
20	14	86	118	66	172	446	189	26	2.2	3.3	15	82
21	13	80	107	70	160	388	217	32	2.1	3.8	22	65
22	11	74	97	74	151	342	227	35	2.0	4.0	25	55
23	21	68	92	84	151	303	199	51	1.7	3.8	31	48
24	90	65	90	110	157	281	175	37	1.7	3.6	29	40
25	358	61	84	160	160	261	157	29	2.5	6.0	25	35
26	231	61	80	220	281	242	139	24	13	8.0	20	29
27	172	55	76	285	490	16900	124	21	59	24	16	25
28	129	55	72	326	553	14200	112	19	34	253	15	23
29	110	51	68	311	---	4740	100	18	32	126	21	23
30	136	49	66	281	---	2550	90	17	25	88	17	41
31	154	---	61	242	---	1690	---	16	---	74	20	---
TOTAL	2004.2	2488	5390	3305	6794	58943	10229	1281	290.9	957.3	747	1525
MEAN	64.7	82.9	174	107	243	1901	341	41.3	9.70	30.9	24.1	50.8
MAX	358	145	773	326	553	16900	1270	90	59	253	72	330
MIN	8.4	49	41	49	151	242	90	16	1.7	3.3	12	11
CFSM	.15	.20	.41	.25	.57	4.46	.80	.10	.02	.07	.06	.12
IN.	.18	.22	.47	.29	.59	5.15	.89	.11	.03	.08	.07	.13
AC-FT	3980	4930	10690	6560	13480	116900	20290	2540	577	1900	1480	3020

CAL YR 1976 TOTAL 147538.9 MEAN 403 MAX 22400 MIN 1.2 CFSM .95 IN 12.88 AC-FT 292600
WTR YR 1977 TOTAL 93954.4 MEAN 257 MAX 16900 MIN 1.7 CFSM .60 IN 8.20 AC-FT 186400

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
OCT									
01...	1028	1028	10	--	--	23.5	--	--	--
NOV									
02...	9827	9827	145	80	7.4	14.0	15	9.9	1.3
16...	1028	1028	105	--	--	6.5	--	--	--
30...	9827	9827	46	100	7.4	8.0	5	12.2	2.7
DEC									
27...	1028	1028	72	--	--	4.5	--	--	--
FEB									
08...	1028	1028	240	--	--	3.0	--	--	--
MAR									
22...	1028	1028	354	--	--	12.0	--	--	--
APR									
05...	9827	9827	668	39	7.0	16.0	35	9.5	3.3
29...	1028	1028	103	--	--	20.5	--	--	--
MAY									
03...	9827	9827	80	93	7.6	19.0	0	8.1	1.0
31...	9827	9827	15	94	--	30.0	15	7.1	2.5
JUN									
14...	1028	1028	3.2	--	--	30.0	--	--	--
JUL									
05...	9827	9827	37	96	7.6	31.0	10	7.3	2.8
25...	1028	1028	3.7	--	--	30.5	--	--	--
AUG									
02...	9827	9827	74	117	7.6	30.0	15	8.3	--

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA.MG) (MG/L) (00900)	TOTAL CALCIUM (CA) (MG/L) (00916)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT								
01...	--	--	--	--	--	--	--	--
NOV								
02...	380	20	--	--	--	--	--	5.0
16...	--	--	--	--	--	--	--	--
30...	40	--	--	--	--	--	--	5.0
DEC								
27...	--	--	--	--	--	--	--	--
FEB								
08...	--	--	--	--	--	--	--	--
MAR								
22...	--	--	--	--	--	--	--	--
APR								
05...	--	--	8	1.2	1.0	2.3	.8	5.0
29...	--	--	--	--	--	--	--	--
MAY								
03...	400	100	--	--	--	--	--	3.0
31...	60	44	--	--	--	--	--	5.0
JUN								
14...	--	--	--	--	--	--	--	--
JUL								
05...	380	60	--	--	2.0	3.9	1.4	--
25...	--	--	--	--	--	--	--	--
AUG								
02...	1700	--	--	--	--	--	--	4.0

07250000 LEE CREEK NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
NOV								
02...	6.0	--	--	.36	--	--	.01	--
30...	21	--	--	<.10	--	--	<.01	--
APR								
05...	35	40	2	<.10	<.10	.11	.02	<10
MAY								
03...	4.5	60	9	<.05	.01	.05	.01	--
31...	5.0	60	6	.03	.00	.05	.03	--
JUL								
05...	6.5	--	9	.06	.00	.03	.00	--
AUG								
02...	11	73	7	.01	.01	.04	.01	--

DATE	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)	TOTAL ZINC (ZN) (UG/L) (01092)
NOV							
02...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--
APR							
05...	<10	--	<10	630	<10	92	10
MAY							
03...	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--
JUL							
05...	<10	<10	<10	560	<10	83	<10
AUG							
02...	--	--	--	--	--	--	--

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, Hydrologic Unit 11110104, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
05...	9827	9827	--	7650	533	8.0	23.0	20	7.7	2.6	48000	500
11...	9827	9827	--	--	--	--	--	--	--	--	--	--
NOV												
02...	9827	9827	--	6750	476	7.9	14.0	20	10.4	2.3	7800	<100
30...	9827	9827	--	10500	419	8.1	11.0	10	11.1	3.1	5300	--
JAN												
04...	9827	9827	--	14400	504	8.2	8.0	15	12.9	3.4	37000	400
FEB												
01...	9827	9827	--	12200	449	8.0	7.0	25	13.7	2.1	10500	<20
MAR												
01...	9827	9827	--	3840	369	7.9	13.0	50	10.6	3.1	12800	350
APR												
05...	9827	9827	28300	--	297	7.5	15.0	120	8.9	4.7	--	--
MAY												
03...	9827	9827	--	9830	471	7.9	24.0	20	8.1	3.0	14000	75
31...	9827	9827	--	48700	1430	--	29.0	30	7.7	2.9	17000	100
JUL												
05...	9827	9827	--	78700	551	8.1	32.0	40	8.7	4.4	6800	140
AUG												
02...	9827	9827	--	48	585	8.1	30.0	35	8.4	--	79000	--
SEP												
06...	9827	9827	--	32100	594	7.9	29.0	30	8.0	3.7	28000	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT												
05...	160	62	--	51	--	8.0	59	4.4	120	--	98	44
11...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	35
30...	--	--	--	--	--	--	--	--	--	--	--	36
JAN												
04...	120	22	--	23	--	16	47	3.2	120	0	98	34
FEB												
01...	--	--	--	--	--	--	--	--	--	--	--	32
MAR												
01...	--	--	--	--	--	--	--	--	--	--	--	29
APR												
05...	45	--	8.2	--	4.3	--	34	3.9	--	--	--	27
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	31
31...	--	--	--	--	--	--	--	--	--	--	--	69
JUL												
05...	--	--	--	--	8.0	--	58	4.5	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	39
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	38

07250500 ARKANSAS RIVER AT VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
05...	84	311	16	.30	--	--	.09	<3	<10	<3	<10	810
11...	--	276	20	--	--	--	--	--	--	--	--	--
NOV												
02...	64	--	--	.37	--	--	.08	--	--	--	--	--
30...	53	250	3	.18	--	--	.01	--	--	--	--	--
JAN												
04...	68	282	--	<.10	--	--	.04	<3	<10	<3	<10	170
FEB												
01...	74	285	12	.17	--	--	.07	--	--	--	--	--
MAR												
01...	57	229	34	.10	--	--	.12	--	--	--	--	--
APR												
05...	48	199	52	.13	<.10	.25	.15	<10	<10	--	<10	4000
MAY												
03...	77	278	20	<.05	.01	.14	.08	--	--	--	--	--
31...	350	823	26	.29	.01	.11	.15	--	--	--	--	--
JUL												
05...	88	--	38	.42	.01	.06	.07	--	<10	10	<10	2100
AUG												
02...	96	336	16	.16	.03	.05	.08	--	--	--	--	--
SEP												
06...	120	361	19	.45	<.05	--	.17	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
05...	<10	87	.5	<10	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN												
04...	<10	42	--	<10	--	--	--	--	--	--	--	--
FEB												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
05...	40	230	--	30	--	--	--	--	--	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
05...	<10	76	--	10	--	--	--	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
06...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110104, 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.--50 years, 31,480 ft^3/s (892 m^3/s), 22,810,000 acre-ft/yr (28,100 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, 118,000 ft^3/s (3,340 m^3/s) Mar. 28, tailwater elevation, 387.56 ft (118.130 m); minimum daily, 54 ft^3/s (1.53 m^3/s) Nov. 7, Jan. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12900	12300	8700	54	8880	6440	17800	179	54900	77900	8850	36700
2	2170	9130	7740	3400	5990	11500	22300	15300	46500	77600	7550	35400
3	275	6120	7010	6700	6410	5420	14300	15500	49800	78900	6440	35700
4	7000	5360	923	9330	1220	10100	20100	15200	57500	78700	7820	17700
5	7560	2140	850	5190	2270	5880	28300	19000	56400	78500	5190	17400
6	3250	197	13400	6980	3770	5950	24600	12500	53300	77200	11900	30400
7	3990	54	9270	9630	1880	10300	11300	115	53800	77800	9750	25200
8	11100	7960	9970	8810	2860	8330	9750	229	37300	77000	15500	26300
9	1310	6320	8460	8710	2540	7020	6490	5090	36200	82700	16400	29500
10	236	7500	10500	12500	2520	3420	8080	98	36100	76300	10700	35600
11	10200	8190	6110	12200	836	9120	13200	1170	38300	56400	5610	36200
12	11300	4970	2600	6840	73	14100	14300	2310	23100	47600	2240	31300
13	7370	64	10100	9110	2990	7840	10700	4080	15200	42400	211	36000
14	11200	75	6520	10900	6410	5190	10500	194	18700	36400	4270	32700
15	11300	8220	9610	6160	8590	8660	16400	226	11900	34900	3920	33700
16	107	7820	5310	7210	9690	8150	8530	11000	13400	36000	18400	38600
17	2140	6510	4670	10600	8550	11900	4020	9050	13400	35000	16800	39700
18	9370	3190	992	9280	6300	10300	16200	10500	10800	25500	33800	37700
19	10800	4450	1190	6340	1490	5320	6230	9870	7460	24200	33000	37800
20	10800	766	7790	3550	2590	2000	4820	8360	26300	22300	22800	31900
21	14200	1220	2500	4890	4050	9860	2960	13200	18000	21200	17800	24100
22	8720	7400	2500	3810	6010	7420	5420	11300	37100	34400	20900	26700
23	231	8650	3200	3010	9020	3210	5310	32500	37400	28400	32700	27500
24	832	9220	3920	3820	8700	2420	254	38100	53200	13400	35600	34400
25	6880	144	98	6460	9030	6940	9990	48100	66300	17800	30300	33700
26	9660	142	69	8030	11300	1490	3660	48600	70600	17300	27600	31100
27	9020	1550	1430	7260	4910	63000	5660	41900	72800	33600	20800	25300
28	4430	431	2490	11900	8960	106000	1590	43300	66000	24500	13800	26400
29	6020	10100	5410	3020	---	71300	3250	49300	77600	21700	23800	29100
30	429	7550	2020	2210	---	58200	4050	49100	80400	1830	36300	27500
31	459	---	4380	10300	---	28000	---	50800	---	131	35800	---
TOTAL	195259	147743	159732	218204	147839	514780	310064	566171	1239760	1357561	536551	931300
MEAN	6299	4925	5153	7039	5280	16610	10340	18260	41330	43790	17310	31040
MAX	14200	12300	13400	12500	11300	106000	28300	50800	80400	82700	36300	39700
MIN	107	54	69	54	73	1490	254	98	7460	131	211	17400
AC-FT	387300	293000	316800	432800	293200	1021000	615000	1123000	2459000	2693000	1064000	1847000

CAL YR 1976 TOTAL 7208901 MEAN 19700 MAX 162000 MIN 16 AC-FT 14300000
WTR YR 1977 TOTAL 6324964 MEAN 17330 MAX 106000 MIN 54 AC-FT 12550000

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 current year.

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 CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 773 micromhos Sept. 13; minimum daily, 161 micromhos Apr. 11.
WATER TEMPERATURES: Maximum daily, 33.5°C July 31; minimum daily, 1.0°C Jan 11-13, 16-25.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 310 mg/L Mar. 28; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 88,700 tons (80,500 tonnes) Mar. 28; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA+MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
NOV												
24...	1028	1028	--	--	--	--	--	--	--	--	--	--
24...	1028	1028	7710	417	7.9	8.0	11.4	99	1800	120	110	24
JAN												
05...	1028	1028	10500	481	7.3	3.5	13.2	102	B1300	150	130	37
FEB												
16...	1028	1028	12000	246	6.6	6.0	11.6	97	B1800	290	69	18
MAR												
03...	1028	1028	3110	356	6.4	9.5	10.3	92	940	140	83	20
30...	1028	1028	55600	348	7.3	15.0	9.2	94	600	130	71	17
APR												
28...	1028	1028	3160	383	7.5	19.5	7.7	88	670	B16	75	16
MAY												
27...	1028	1028	43400	--	--	24.0	--	--	--	--	--	--
27...	1028	1028	42200	853	7.0	24.0	8.2	100	870	80	150	52
JUN												
23...	1028	1028	36100	946	7.6	27.0	7.3	92	B4200	88	160	52
JUL												
20...	1028	1028	13700	551	6.6	29.0	7.3	96	B4200	B32	140	38
AUG												
18...	1028	1028	36100	547	7.8	26.5	7.6	96	E29000	700	120	24
SEP												
09...	1028	1028	--	--	--	--	--	--	--	--	--	--
09...	1028	1028	26200	708	7.7	25.0	8.0	99	B4500	560	140	41
30...	1028	1028	--	--	--	--	--	--	--	--	--	--
30...	1028	1028	24600	589	7.7	20.5	7.7	88	B2000	B4100	120	38

B PLATE COUNT OUTSIDE IDEAL RANGE.
E ESTIMATED.

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	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)
NOV											
24...	--	--	--	--	--	--	--	--	--	--	--
24...	34	7.2	37	40	1.5	3.1	110	0	90	2.2	29
JAN											
05...	37	8.9	43	41	1.6	3.3	112	0	92	9.0	36
FEB											
16...	18	5.9	26	44	1.4	2.1	62	0	51	25	25
MAR											
03...	23	6.3	37	48	1.8	2.5	77	0	63	49	30
30...	20	5.0	35	51	1.8	2.8	65	0	53	5.2	27
APR											
28...	20	6.2	26	42	1.3	2.4	72	0	59	3.6	28
MAY											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	45	9.3	--	--	--	4.1	120	0	98	19	48
JUN											
23...	47	10	130	63	4.5	4.5	130	0	110	5.2	57
JUL											
20...	42	7.6	66	50	2.5	4.2	120	0	98	48	37
AUG											
18...	38	6.7	59	50	2.3	4.0	120	0	98	3.0	44
SEP											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	43	7.9	83	55	3.1	4.7	120	0	98	3.8	42
30...	--	--	--	--	--	--	--	--	--	--	--
30...	36	7.2	69	55	2.7	4.3	100	0	82	3.2	36

DATE	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)	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)
NOV											
24...	--	--	--	--	--	--	--	--	--	--	--
24...	55	.2	3.8	233	224	.32	4850	.23	.74	.97	4.3
JAN											
05...	69	.3	.8	254	254	.35	7200	.12	.48	.60	2.7
FEB											
16...	43	.1	3.9	157	155	.21	5090	.15	.65	.80	3.5
MAR											
03...	55	.1	2.3	209	194	.28	1760	.06	.49	.55	2.4
30...	54	.1	3.1	199	179	.27	29900	.12	.84	.96	4.3
APR											
28...	58	.1	2.7	209	179	.28	1780	.13	.59	.72	3.2
MAY											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	160	.0	1.1	463	--	.63	52800	.24	.87	1.1	4.9
JUN											
23...	190	.3	5.4	503	508	.68	49000	.23	.54	.77	3.4
JUL											
20...	96	.2	4.8	322	317	.44	11900	.32	.00	.32	1.4
AUG											
18...	87	.2	6.1	304	304	.41	29600	.32	1.0	1.3	5.8
SEP											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	130	.2	6.9	377	377	.51	26700	.46	.63	1.1	4.8
30...	--	--	--	--	--	--	--	--	--	--	--
30...	100	.2	8.0	324	310	.44	21500	.59	--	--	--

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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)
NOV											
24...	--	--	--	--	--	--	--	--	--	--	--
24...	.08	1	0	1	<10	<10	0	0	0	0	<50
JAN											
05...	.06	--	--	3	<10	<10	0	0	0	0	<50
FEB											
16...	.10	--	--	--	--	--	--	--	--	--	--
MAR											
03...	.06	--	--	--	--	--	--	--	--	--	--
30...	.13	--	--	--	--	--	--	--	--	--	--
APR											
28...	.07	1	--	1	<10	--	1	0	--	0	<50
MAY											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.14	--	--	--	--	--	--	--	--	--	--
JUN											
23...	.12	--	--	--	--	--	--	--	--	--	--
JUL											
20...	.08	2	1	1	<10	<9	1	0	--	0	<50
AUG											
18...	.13	--	--	--	--	--	--	--	--	--	--
SEP											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	.13	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.15	--	--	--	--	--	--	--	--	--	--

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
NOV												
24...	<50	0	10	6	4	320	30	<100	<100	0	50	40
JAN												
05...	<50	0	10	7	3	260	220	<100	<100	0	60	40
APR												
28...	--	0	40	--	9	960	20	100	--	0	130	--
JUL												
20...	<50	0	<10	<4	6	780	20	<100	<100	0	60	50
AUG												
18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
09...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--

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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
NOV											
24...	10	--	--	.0	0	0	0	10	0	10	4.8
JAN											
05...	20	.3	.2	.1	0	0	0	40	20	20	3.6
APR											
28...	40	.0	--	.0	0	--	0	20	--	10	--
JUL											
20...	8	.0	.0	.0	0	0	0	20	20	4	4.2
AUG											
18...	--	--	--	--	--	--	--	--	--	--	7.3
SEP											
09...	--	--	--	--	--	--	--	--	--	--	4.3
30...	--	--	--	--	--	--	--	--	--	--	5.2

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MATERIAL (UG/KG) (39333)	TOTAL ATRAZINE (UG/L) (39630)	ATRAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS) (39631)	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)
NOV											
24...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
FEB											
16...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN											
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	ND	--	.99	--	ND	--	ND	--	ND	--	ND
SEP											
09...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	TOTAL HEPTACHLOR (UG/L) (39410)
NOV										
24...	--	ND	--	ND	--	ND	--	ND	--	ND
FEB										
16...	--	ND	--	ND	--	ND	--	ND	--	ND
MAR										
03...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	--	ND	--	ND	--	ND	--	ND	--	ND
SEP										
09...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--

DATE	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)	TOTAL METHYL PARATHION (UG/L) (39600)
NOV										
24...	--	ND	--	ND	--	ND	--	ND	--	ND
FEB										
16...	--	ND	--	ND	--	ND	--	ND	--	ND
MAR										
03...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	--	ND	--	ND	--	ND	--	ND	--	ND
SEP										
09...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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 COULSON COND. (UG/L) (39025)	SIMAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS) (39046)	TOTAL TOXAPHENE (UG/L) (39400)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG) (39403)	TOTAL TRITHION (UG/L) (39786)
NOV										
24...	--	ND	--	ND	--	ND	--	ND	--	ND
FEB										
16...	--	ND	--	ND	--	ND	--	ND	--	ND
MAR										
03...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
18...	--	ND	--	ND	--	ND	--	ND	--	ND
SEP										
09...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--

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)
NOV										
24...	--	ND	--	ND	--	ND	--	9	187	98
FEB										
16...	--	ND	--	ND	--	ND	--	17	551	96
MAR										
03...	--	--	--	--	--	--	--	12	101	95
30...	--	--	--	--	--	--	--	121	18200	96
APR										
28...	--	--	--	--	--	--	--	30	256	97
MAY										
27...	ND	ND	ND	ND	ND	ND	ND	57	6500	93
JUN										
23...	--	--	--	--	--	--	--	36	3510	95
JUL										
20...	--	--	--	--	--	--	--	28	1040	92
AUG										
18...	--	ND	--	ND	--	ND	--	50	4870	76
SEP										
09...	--	--	--	--	--	--	--	29	2050	97
30...	--	--	--	--	--	--	--	55	3650	92

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

PHYTOPLANKTON

DATE / TIME	NOV 24,76 0930		JAN 5,77 0900		FEB 16,77 0900		MAR 3,77 0930		MAY 27,77 0930	
TOTAL CELLS/ML	5900		14000		3800		4500		5800	
DIVERSITY: DIVISION	1.5		1.7		1.0		1.5		1.1	
.CLASS	1.5		1.8		1.0		1.5		1.1	
..ORDER	1.9		2.2		1.3		1.6		1.4	
...FAMILY	2.3		2.4		1.8		2.2		1.7	
....GENUS	2.9		3.0		2.8		2.8		2.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	300	7	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	*	0	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	54	1	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	62	1	130	1	1100#	30	520	12	210	4
....CHODATELLA	*	0	--	-	27	1	25	1	--	-
....DICTYOSPHAERIUM	1900#	33	--	-	110	3	400	9	--	-
....FRANCEIA	*	0	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	82	1	2300#	16	160	4	--	-	--	-
....OOCYSTIS	--	-	500	4	--	-	200	4	--	-
....SELENASTRUM	--	-	130	1	--	-	*	0	--	-
....TETRAEDRON	*	0	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	500	4	--	-	--	-	--	-
....SCENEDESMUS	160	3	--	-	*	0	*	0	1200#	20
....TETRASTRUM	390	7	*	0	320	9	300	7	850	14
..TETRASPORALES										
...PALMELLACEAE										
....GLOEOCYSTIS	62	1	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	250	4	*	0	27	1	*	0	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
..CHLOROCOCCALES										
...OOCYSTACEAE										
....GLOEOACTINIUM	--	-	--	-	430	11	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	1500#	25	1000	7	1000#	26	1700#	38	2800#	48
....MELOSIRA	520	9	880	6	320	9	270	6	250	4
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	*	0	--	-	210	4
...NAVICULACEAE										
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-
....NAVICULA	--	-	--	-	*	0	25	1	250	4
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....HANTZSCHIA	41	1	--	-	--	-	--	-	--	-
....NITZSCHIA	82	1	--	-	160	4	120	3	--	-
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	27	1	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...CHROMULINACEAE										
....CHRYSOCOCCUS	--	-	--	-	27	1	--	-	--	-
...OCHROMONADACEAE										
....DINOBRYON	--	-	*	0	--	-	--	-	--	-
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CENTRITRACTACEAE										
....CENTRITRACTUS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

PHYTOPLANKTON

DATE TIME	NOV 24,76 0930		JAN 5,77 0900		FEB 16,77 0900		MAR 3,77 0930		MAY 27,77 0930	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	660	11	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	2000	14	--	-	--	-	85	1
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	630	4	--	-	--	-	--	-
....OSCILLATORIA	*	0	4700#	33	--	-	590	13	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	190	1	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	82	1	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	*	0	--	-	--	-	--	-
....TRACHELOMONAS	--	-	1000	7	--	-	25	1	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	41	1	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

PHYTOPLANKTON

DATE TIME	JUN 23,77 0930		JUL 20,77 0900		AUG 18,77 1015		SEP 9,77 0845		SEP 30,77 0930	
TOTAL CELLS/ML	2700		1200		2500		4300		11000	
DIVERSITY: DIVISION	0.9		1.6		1.1		1.3		0.1	
.CLASS	0.9		1.6		1.4		1.4		0.1	
..ORDER	1.7		1.7		1.5		1.5		0.1	
...FAMILY	2.0		2.1		1.5		2.4		1.3	
....GENUS	2.4		2.8		2.1		2.5		2.0	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	12	1	54	2	--	-	550	5
...COELASTRACEAE										
....COELASTRUM	--	-	120	10	--	-	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	*	0	--	-	1100#	26	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	16	1	31	2	--	-	--	-	1400	13
....CHODATELLA	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	320	3
....FRANCEIA	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	79	1
....OOCYSTIS	250	10	55	4	--	-	260	6	*	0
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	32	1	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	4400#	41
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	170	7	37	3	--	-	1400#	33	3800#	35
....TETRASTRUM	--	-	24	2	--	-	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	32	1	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	24	2	--	-	--	-	--	-
..CHLOROCOCCALES										
...OOCYSTACEAE										
....GLOEOACTINIUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	1100#	43	31	2	860#	35	460	11	--	-
....MELOSIRA	190	7	310#	25	430#	17	--	-	--	-
....STEPHANODISCUS	--	-	43	3	54	2	130	3	--	-
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	--	-	66	2	--	-
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	130	3	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	--	-	--	-	79	1
...NAVICULACEAE										
....GYROSIGMA	16	1	--	-	54	2	--	-	--	-
....NAVICULA	16	1	--	-	--	-	--	-	--	-
....PINNULARIA	16	1	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....HANTZSCHIA	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	700#	26	--	-	--	-	--	-	--	-
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...CHROMULINACEAE										
....CHRYSOCOCCUS	--	-	--	-	--	-	--	-	--	-
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	160	7	--	-	--	-
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CENTRITRACTACEAE										
....CENTRITRACTUS	--	-	--	-	--	-	66	2	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

PHYTOPLANKTON

DATE TIME	JUN 23,77 0930		JUL 20,77 0900		AUG 18,77 1015		SEP 9,77 0845		SEP 30,77 0930	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	--	-	440#	36	860#	35	--	-	--	-
....ANACYSTIS	--	-	92	7	--	-	--	-	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	47	2	--	-	--	-	660#	15	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	32	1	*	0	--	-	--	-	79	1
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
NOV. 24	56	1538	1077	461	1.07	0.718	431	POLYETHYLENE STRIP
SEP. 9	22	8030	7170	860	.249	.003	3454	POLYETHYLENE STRIP
SEP. 30	21	4490	3620	870	3.06	.589	284	POLYETHYLENE STRIP

BENTHIC INVERTEBRATES

DATE TIME	NOV 24,76 0930
TOTAL COUNT	151
DIVERSITY: PHYLUM	0.1
.CLASS	0.1
..ORDER	0.8
...FAMILY	0.8
....GENUS	1.5
....GENUS-INSECTA	1.4

ORGANISM	COUNT
ANNELIDA	
.OLIGOCHAETA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	2
ARTHROPODA (ARTHROPODS)	
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....DICROTENDIPES	89
....PENTANEURA	1
..TRICHOPTERA	
...POLYCENTROPODIDAE	
....NYCTIOPHYLAX	28
..DIPTERA	
...CHIRONOMIDAE	
....PSECTROCLADIUS	31

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	541	525	536	518	492	502	424	383	404	450	445	447
2	549	539	544	522	486	503	430	420	425	456	450	453
3	546	534	540	521	507	514	431	415	425	486	460	469
4	546	534	538	519	506	511	420	416	418	498	477	490
5	549	527	540	521	499	513	422	418	421	508	486	502
6	536	515	526	516	502	511	427	419	423	528	514	522
7	536	527	532	509	490	503	420	376	395	541	532	537
8	541	502	534	504	465	491	420	378	408	555	545	551
9	504	495	500	480	449	466	381	363	371	572	549	562
10	504	493	499	458	408	438	397	373	380	576	564	570
11	534	495	507	463	419	446	405	386	397	601	573	584
12	544	505	533	461	444	453	397	380	389	619	601	609
13	551	541	548	457	452	456	398	373	392	613	606	609
14	570	560	564	450	447	449	372	240	333	621	605	616
15	579	563	570	444	437	441	345	249	317	617	601	612
16	579	551	570	435	412	427	349	337	341	608	599	602
17	585	555	574	423	409	417	351	319	336	595	403	511
18	589	578	585	421	409	416	355	333	348	558	407	475
19	597	572	587	423	413	420	364	341	354	586	552	565
20	596	585	589	423	408	418	365	319	348	578	552	564
21	602	581	591	416	408	412	324	309	314	576	532	560
22	595	576	584	411	399	406	341	316	331	546	526	535
23	589	580	583	408	372	398	344	332	338	540	496	525
24	587	577	582	392	363	378	404	334	367	492	427	445
25	584	546	565	405	391	398	421	389	409	436	406	427
26	563	525	547	405	400	402	416	394	406	401	276	322
27	538	485	512	410	407	409	413	404	407	316	272	289
28	486	458	473	416	414	415	421	397	414	318	312	315
29	484	473	481	425	418	422	428	414	421	---	---	---
30	491	478	483	429	383	410	447	425	439	---	---	---
31	493	483	490	---	---	---	449	445	447	---	---	---
MONTH	602	458	542	522	363	445	449	240	384	621	272	510

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	501	374	443	429	350	398	414	403	407
2	---	---	---	428	368	389	457	304	391	405	397	401
3	---	---	---	433	379	409	522	425	494	432	394	407
4	---	---	---	496	406	455	501	360	432	412	399	407
5	---	---	---	494	445	461	493	366	437	406	397	401
6	---	---	---	448	375	402	548	406	502	401	385	398
7	---	---	---	439	247	361	524	474	508	390	382	387
8	---	---	---	263	200	225	479	339	410	395	385	391
9	---	---	---	345	216	294	395	338	383	396	384	389
10	---	---	---	351	315	329	361	308	327	393	387	389
11	379	338	358	353	321	340	337	161	226	392	386	389
12	368	328	343	325	260	293	409	274	343	391	376	385
13	351	311	333	325	257	292	458	307	393	383	362	375
14	318	263	288	271	237	251	455	306	394	376	361	367
15	286	270	278	258	194	224	373	251	325	375	362	370
16	414	246	308	279	188	224	459	254	361	378	371	374
17	458	406	435	305	270	288	463	440	454	383	366	376
18	476	434	456	327	259	296	457	234	371	394	382	386
19	475	429	456	342	302	321	464	239	349	411	393	402
20	474	452	466	335	316	326	481	435	466	419	412	415
21	487	466	475	344	310	328	474	431	457	---	---	---
22	493	451	477	335	245	285	478	390	437	---	---	---
23	466	398	432	312	239	280	458	443	454	---	---	---
24	488	427	452	369	301	337	454	432	440	---	---	---
25	520	434	484	378	326	347	438	410	421	---	---	---
26	496	444	466	408	387	401	451	394	419	---	---	---
27	517	465	487	437	341	396	413	390	399	---	---	---
28	507	458	487	463	366	417	418	379	397	---	---	---
29	---	---	---	388	327	349	420	393	404	---	---	---
30	---	---	---	361	339	348	412	389	400	---	---	---
31	---	---	---	432	350	400	---	---	---	---	---	---
MONTH	520	246	416	501	188	339	548	161	406	432	361	391

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1				573	553	561	580	565	570	496	468	477
2				560	520	537	593	553	574	522	500	506
3				540	516	528	579	552	568	559	532	539
4				542	499	522	587	569	577	570	552	562
5				530	470	517	591	571	581	575	545	564
6				524	484	502	589	575	581	618	552	581
7				497	469	484	585	573	579	627	594	614
8				492	471	484	589	569	578	660	628	639
9				481	452	470	590	568	579	684	634	660
10				484	466	473	591	572	581	707	670	693
11				501	475	486	602	570	586	720	708	713
12				510	492	501	597	579	587	753	661	704
13				516	503	509	586	559	574	773	735	753
14				520	504	513	569	540	555	736	643	692
15				532	513	521	562	543	553	666	624	636
16				533	518	527	555	531	544	734	668	695
17				549	523	536	546	520	533	739	676	705
18				557	539	550	516	491	501	704	650	673
19				566	515	551	499	487	494	673	659	665
20				569	545	560	480	458	469	668	622	645
21				551	530	543	467	451	460	640	606	623
22				557	533	544	465	445	456	624	584	605
23				563	547	555	465	454	458	608	555	582
24				575	550	562	524	461	480	554	535	545
25				579	553	565	554	521	541	538	513	523
26				586	574	581	551	523	538	520	504	514
27				581	547	569	525	498	510	542	515	526
28				545	518	532	503	481	490	560	538	550
29				556	529	542	486	426	464	559	482	524
30				566	539	554	449	428	439	533	476	495
31				567	551	561	467	440	450	---	---	---
MONTH				586	452	530	602	426	531	773	468	607

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.0	23.0	23.0	13.0	12.5	13.0	7.5	7.5	7.5	4.5	4.0	4.0
2	23.5	23.0	23.0	13.0	12.5	13.0	8.0	7.5	7.5	4.0	3.5	4.0
3	23.5	23.0	23.5	13.5	13.0	13.0	7.5	7.5	7.5	4.0	3.0	3.5
4	23.5	23.0	23.5	13.0	12.5	13.0	7.5	7.5	7.5	4.0	3.5	4.0
5	24.0	22.5	23.5	12.5	12.0	12.5	7.5	7.5	7.5	4.0	3.5	4.0
6	22.5	22.0	22.0	12.5	12.0	12.0	7.5	7.0	7.5	4.0	3.5	3.5
7	22.0	20.5	21.5	12.5	12.0	12.0	7.0	6.5	7.0	4.0	3.5	3.5
8	20.5	19.0	20.0	12.0	11.5	12.0	6.5	6.0	6.5	4.0	3.5	3.5
9	20.0	19.5	19.5	12.0	11.5	11.5	6.0	5.5	6.0	3.5	1.5	2.5
10	20.0	19.0	19.5	12.5	11.5	11.5	6.5	6.0	6.0	2.0	1.5	1.5
11	20.0	19.0	19.5	12.0	11.0	11.5	6.0	6.0	6.0	1.5	1.0	1.5
12	20.5	19.5	20.0	11.0	10.5	11.0	6.0	6.0	6.0	1.5	1.0	1.5
13	21.5	20.0	20.0	10.5	10.0	10.0	6.0	6.0	6.0	1.5	1.0	1.5
14	20.5	20.0	20.0	9.5	9.5	9.5	6.0	5.5	6.0	1.5	1.5	1.5
15	20.0	19.5	20.0	9.5	9.0	9.0	6.0	5.5	6.0	2.0	1.5	1.5
16	20.0	18.5	19.0	9.0	9.0	9.0	6.0	5.5	5.5	1.5	1.0	1.5
17	18.5	18.0	18.5	9.0	9.0	9.0	6.0	5.5	5.5	1.5	1.0	1.5
18	18.0	17.5	17.5	9.0	8.5	9.0	6.0	5.5	6.0	1.0	1.0	1.0
19	17.5	16.0	17.0	9.0	9.0	9.0	6.5	6.0	6.0	1.0	1.0	1.0
20	16.0	14.5	15.5	9.5	9.0	9.0	7.0	5.5	6.0	1.5	1.0	1.0
21	15.5	14.5	15.0	9.5	9.0	9.0	5.5	5.5	5.5	1.5	1.0	1.0
22	15.5	15.0	15.5	9.0	8.5	9.0	5.5	4.5	5.0	1.5	1.0	1.5
23	15.5	15.5	15.5	9.0	8.5	9.0	5.5	5.0	5.5	1.5	1.0	1.5
24	16.5	15.5	16.0	9.0	9.0	9.0	5.5	4.5	5.0	1.5	1.0	1.5
25	16.5	15.5	15.5	9.5	9.0	9.0	5.5	5.5	5.5	2.5	1.0	2.0
26	15.5	14.5	15.0	10.5	9.5	9.5	5.5	5.0	5.0	3.0	2.5	3.0
27	14.5	14.0	14.5	10.5	9.0	9.5	5.5	5.0	5.5	3.5	3.0	3.0
28	14.5	14.0	14.0	9.0	7.5	8.0	6.0	5.5	5.5	3.5	3.0	3.0
29	14.0	13.0	13.5	7.5	7.5	7.5	6.0	5.0	5.5	---	---	---
30	13.5	12.5	13.0	7.5	7.5	7.5	5.5	4.5	5.0	---	---	---
31	13.5	12.5	13.0	---	---	---	4.5	4.0	4.0	---	---	---
MONTH	24.0	12.5	18.5	13.5	7.5	10.0	8.0	4.0	6.0	4.5	1.0	2.5

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	10.0	9.0	9.5	15.0	14.5	14.5	21.0	21.0	21.0
2	---	---	---	9.5	9.0	9.5	15.5	15.0	15.0	22.5	19.5	21.0
3	---	---	---	9.5	9.0	9.0	15.5	15.0	15.5	24.0	21.5	23.0
4	---	---	---	9.0	9.0	9.0	15.5	15.0	15.0	24.0	23.0	23.5
5	---	---	---	10.0	9.0	9.5	15.0	14.0	14.5	23.5	22.5	23.0
6	---	---	---	10.0	9.5	9.5	15.0	14.0	14.5	23.5	22.5	22.5
7	---	---	---	10.5	9.5	9.5	15.5	14.5	15.0	23.0	23.0	23.0
8	---	---	---	11.0	9.5	10.0	16.0	15.5	15.5	24.0	23.0	23.0
9	---	---	---	11.0	10.5	11.0	18.0	16.0	17.0	24.5	23.0	24.0
10	---	---	---	11.5	11.0	11.0	19.5	17.0	17.5	24.5	23.0	23.5
11	5.5	5.5	5.5	12.5	11.5	12.0	18.5	17.5	18.0	23.5	23.0	23.0
12	6.0	5.0	5.5	12.5	11.5	12.0	18.5	18.0	18.5	24.5	23.0	23.0
13	6.5	6.0	6.0	12.5	11.0	11.5	19.5	18.5	18.5	25.0	22.5	23.5
14	7.0	6.0	6.5	12.5	11.5	11.5	19.0	18.5	18.5	24.0	23.0	23.5
15	6.5	6.0	6.5	13.0	11.5	12.5	19.5	18.5	19.0	23.5	22.5	23.0
16	6.5	6.5	6.5	13.5	13.0	13.0	19.5	19.0	19.0	25.0	23.0	24.0
17	6.5	6.0	6.5	13.0	12.5	13.0	20.0	18.5	19.0	25.0	24.5	24.5
18	7.0	6.5	7.0	13.5	12.5	13.0	19.0	18.5	19.0	25.0	24.0	24.5
19	7.5	7.0	7.0	13.5	13.0	13.0	21.0	18.5	19.5	24.5	24.0	24.0
20	7.5	7.0	7.0	13.5	12.5	13.0	20.5	19.0	19.0	24.5	24.0	24.0
21	7.5	7.0	7.0	13.5	12.5	13.0	20.0	19.0	19.5	---	---	---
22	7.5	7.0	7.5	13.5	12.5	13.0	20.0	19.0	19.5	---	---	---
23	9.0	7.5	8.5	14.0	12.5	13.5	16.0	12.5	14.5	---	---	---
24	9.0	8.5	9.0	14.0	13.0	13.5	15.0	13.5	14.5	---	---	---
25	10.0	9.0	9.5	13.5	13.0	13.0	19.0	15.0	16.5	---	---	---
26	10.0	9.5	9.5	13.5	13.0	13.0	20.5	18.0	19.5	---	---	---
27	10.0	9.0	9.5	14.0	13.5	13.5	20.5	17.5	19.0	---	---	---
28	9.5	9.0	9.5	14.0	13.0	13.5	21.5	19.5	20.5	---	---	---
29	---	---	---	15.5	14.0	14.5	22.5	21.0	21.5	---	---	---
30	---	---	---	15.5	15.0	15.0	22.0	21.0	22.0	---	---	---
31	---	---	---	15.0	14.5	15.0	---	---	---	---	---	---
MONTH	10.0	5.0	7.5	15.5	9.0	12.0	22.5	12.5	17.5	25.0	19.5	23.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1				28.0	27.0	27.5	32.0	29.0	30.0	29.5	27.5	28.5
2				29.0	27.0	28.0	31.0	29.0	29.5	30.0	28.0	29.0
3				29.5	27.5	28.5	30.5	29.0	29.5	30.0	28.0	29.0
4				30.0	27.5	28.5	30.0	29.5	29.5	30.5	28.5	29.5
5				30.0	28.0	29.0	30.0	29.5	29.5	30.0	29.0	29.5
6				30.5	28.0	29.5	30.5	29.5	30.0	29.0	28.0	28.0
7				30.5	29.0	29.5	31.5	29.5	30.0	29.0	27.5	28.0
8				31.0	29.5	30.0	30.5	29.0	29.5	29.5	28.0	29.0
9				30.5	29.0	29.5	30.5	30.0	30.5	29.5	28.0	28.5
10				30.0	29.0	29.5	32.0	30.0	30.5	29.0	27.5	27.5
11				30.0	29.0	29.5	31.5	30.5	30.5	27.5	26.0	27.0
12				30.5	29.5	30.0	30.5	30.0	30.0	26.0	25.5	25.5
13				31.0	30.0	30.5	30.5	29.5	30.0	26.0	25.0	25.5
14				31.0	30.0	30.5	30.5	29.5	29.5	25.0	24.5	24.5
15				30.5	29.5	30.0	30.5	30.0	30.0	24.5	24.0	24.0
16				31.0	30.0	30.5	31.5	30.0	30.5	24.0	23.5	23.5
17				30.5	29.5	30.0	31.0	30.5	31.0	24.0	23.5	24.0
18				32.5	30.0	30.5	30.5	29.0	29.5	24.0	23.5	24.0
19				31.0	30.0	30.5	29.5	27.5	28.5	24.5	24.0	24.5
20				30.5	29.0	29.5	28.5	27.0	27.5	24.5	24.0	24.0
21				29.5	29.0	29.0	29.5	27.5	28.0	24.5	24.0	24.0
22				30.5	29.0	29.5	29.5	28.0	28.5	24.5	24.0	24.0
23				31.0	29.5	30.0	29.5	28.0	28.5	24.5	23.0	24.0
24				32.0	29.5	30.0	29.5	28.0	28.5	24.5	24.0	24.0
25				32.5	30.0	30.5	29.5	28.0	28.5	25.0	24.0	24.5
26				31.0	29.5	30.0	29.0	28.5	28.5	25.5	24.5	25.0
27				29.5	27.0	28.0	29.5	28.5	29.0	25.5	25.0	25.5
28				28.5	26.5	27.5	29.0	28.5	28.5	25.5	24.5	25.0
29				29.5	28.5	29.0	28.5	28.0	28.0	24.5	24.0	24.5
30				29.5	29.0	29.5	29.5	28.0	28.5	25.5	24.5	25.0
31				33.5	28.5	30.5	29.0	28.0	28.5	---	---	---
MONTH				33.5	26.5	29.5	32.0	27.0	29.5	30.5	23.0	26.0

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	1670	20	90	33	0	.00	9960	10	269
2	864	10	23	.00	0	.00	11700	10	316
3	281	10	7.6	6830	10	184	9760	10	264
4	1590	0	.00	17500	20	945	14000	20	756
5	751	10	20	17700	20	956	12200	10	329
6	10300	10	278	14800	20	799	24800	40	2680
7	8980	10	242	16700	20	902	19800	30	1600
8	7480	10	202	127	0	.00	19200	30	1560
9	13400	20	724	652	0	.00	10800	10	292
10	13100	20	707	11400	10	308	13400	20	724
11	5110	10	138	7030	10	190	7220	10	195
12	10300	10	278	5510	10	149	11500	10	310
13	19900	30	1610	6540	10	177	2610	0	.00
14	16800	20	907	9270	10	250	6380	10	172
15	11800	10	319	33	0	.00	17700	20	956
16	5050	10	136	1550	0	.00	16800	20	907
17	5820	10	157	8620	10	233	16100	20	869
18	3910	0	.00	9240	10	249	20300	30	1640
19	2820	0	.00	7030	10	190	17400	20	940
20	9250	10	250	13400	20	724	9700	10	262
21	8150	10	220	13700	20	740	2940	0	.00
22	8660	10	234	1530	0	.00	5950	10	161
23	8570	10	231	324	0	.00	9800	10	265
24	7640	10	206	12000	10	324	2880	0	.00
25	6530	10	176	16400	20	886	941	0	.00
26	3210	0	.00	17700	20	956	4530	0	.00
27	6290	10	170	324	0	.00	6540	10	177
28	9500	10	256	9360	10	253	12400	10	335
29	11400	10	308	717	0	.00	12400	10	335
30	9690	10	262	1590	0	.00	10600	10	286
31	10000	10	270	---	---	---	12000	10	324
TOTAL	238816	---	8421.60	227610.0	---	9415.00	352311	---	16924.00
		JANUARY			FEBRUARY			MARCH	
1	14100	20	761	70	0	.00	4020	0	.00
2	11200	10	302	5160	10	139	5140	10	139
3	12600	20	680	4710	0	.00	7130	10	193
4	12000	10	324	7220	10	195	8060	10	218
5	14400	20	778	5580	10	151	9460	10	255
6	11800	10	319	6080	10	164	4830	0	.00
7	20100	30	1630	6990	10	189	1480	0	.00
8	23500	40	2540	1890	0	.00	18500	30	1500
9	34100	60	5520	6660	10	180	37000	60	5990
10	27900	40	3010	5090	10	137	37500	60	6070
11	12700	20	686	9190	10	248	30300	50	4090
12	11200	10	302	5530	10	149	34000	60	5510
13	10200	10	275	6140	10	166	16600	20	896
14	4810	0	.00	186	0	.00	20200	30	1640
15	5030	10	136	224	0	.00	20600	30	1670
16	4290	0	.00	5770	10	156	24100	40	2600
17	4760	0	.00	3630	0	.00	23900	40	2580
18	61	0	.00	5830	10	157	23200	30	1880
19	10300	10	278	4600	0	.00	21200	30	1720
20	9170	10	248	4720	0	.00	16000	20	864
21	6980	10	188	3250	0	.00	19700	30	1600
22	1240	0	.00	737	0	.00	22400	30	1810
23	3940	0	.00	7140	10	193	16700	20	902
24	1060	0	.00	8710	10	235	15500	20	837
25	1080	0	.00	3050	0	.00	11300	10	305
26	4770	0	.00	7310	10	197	11000	10	297
27	6000	10	162	4890	0	.00	1340	0	.00
28	3060	0	.00	62	0	.00	1080	0	.00
29	5130	10	139	1560	0	.00	19300	30	1560
30	2650	0	.00	---	---	---	16300	20	880
31	16	0	.00	---	---	---	13700	20	740
TOTAL	290147	---	18278.00	131979	---	2656.00	511540	---	46746.00

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

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)
		APRIL			MAY			JUNE	
1	17300	20	934	56200	110	16700	46200	80	9980
2	20300	30	1640	51400	100	13900	45400	80	9810
3	4150	0	.00	48400	90	11800	40400	70	7640
4	1850	0	.00	43800	80	9460	38200	70	7220
5	11700	10	316	36500	60	5910	38800	70	7330
6	10700	10	289	47600	90	11600	33000	50	4450
7	9500	10	256	49300	90	12000	28400	40	3070
8	8650	10	234	42200	70	7980	24300	40	2620
9	8920	10	241	37700	60	6110	29200	50	3940
10	2860	0	.00	39900	70	7540	26600	40	2870
11	1020	0	.00	42200	70	7980	19100	30	1550
12	12400	10	335	46300	80	10000	20900	30	1690
13	12400	10	335	69100	140	26100	892	0	.00
14	11200	10	302	60700	120	19700	19000	30	1540
15	13800	20	745	50300	90	12200	17300	20	934
16	8870	10	239	45500	80	9830	17800	20	961
17	4080	0	.00	44200	80	9550	18400	20	994
18	12000	10	324	48700	90	11800	19100	30	1550
19	34200	60	5540	47200	90	11500	12400	10	335
20	118000	280	89200	40500	70	7650	7590	10	205
21	162000	420	184000.0	30500	50	4120	19200	30	1560
22	140000	350	132000.0	35000	60	5670	16700	20	902
23	112000	260	78600	42000	70	7940	14200	20	767
24	72000	150	29200	40800	70	7710	22100	30	1790
25	64500	130	22600	30300	50	4090	34700	60	5620
26	68300	140	25800	19100	30	1550	40600	70	7670
27	51300	100	13900	39900	70	7540	30500	50	4120
28	45800	80	9890	28000	40	3020	30000	50	4050
29	50900	90	12400	42700	80	9220	22700	30	1840
30	67400	140	25500	43100	80	9310	15100	20	815
31	---	---	---	39800	70	7520	---	---	---
TOTAL	1158100	---	634820.0	1338900	---	297000	748782	---	97823.00
		JULY			AUGUST			SEPTEMBER	
1	23900	40	2580	17700	20	956	48	0	.00
2	21900	30	1770	21600	30	1750	3530	0	.00
3	19900	30	1610	25100	40	2710	3440	0	.00
4	54300	10	1470	22000	30	1780	245	0	.00
5	89100	20	4810	18100	20	977	1240	0	.00
6	100000	230	62100	14800	20	799	1710	0	.00
7	104000	240	67400	2690	0	.00	12500	20	675
8	95900	220	57000	128	0	.00	12700	20	686
9	93900	210	53200	9730	10	263	11500	10	310
10	95500	220	56700	14600	20	788	2900	0	.00
11	101000	230	62700	13200	20	713	588	0	.00
12	90200	200	48700	14300	20	772	1640	0	.00
13	90100	200	48700	16000	20	864	8260	10	223
14	103000	240	66700	14300	20	772	9800	10	265
15	97400	220	57900	316	0	.00	12700	20	686
16	94600	210	53600	15000	20	810	10200	10	275
17	75800	160	32700	18000	20	972	15400	20	832
18	68600	140	25900	19600	30	1590	10400	10	281
19	66900	140	25300	18400	20	994	1090	0	.00
20	61900	120	20100	6320	10	171	15500	20	837
21	40100	70	7580	701	0	.00	11500	10	310
22	41300	70	7810	175	0	.00	5370	10	145
23	48800	90	11900	16200	20	875	3660	0	.00
24	44400	80	9590	14700	20	794	2480	0	.00
25	38300	70	7240	13700	20	740	256	0	.00
26	37200	60	6030	19000	30	1540	2010	0	.00
27	37100	60	6010	16400	20	886	12100	10	327
28	31600	50	4270	2330	0	.00	6620	10	179
29	30100	50	4060	592	0	.00	9350	10	252
30	25300	40	2730	13000	20	702	10600	10	286
31	21400	30	1730	5100	10	138	---	---	---
TOTAL	1943500	---	819890	383882	---	23356.00	199337	---	6569.00

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	12900	20	697	12300	10	332	8700	10	235
2	2170	0	.00	9130	10	247	7740	10	209
3	275	0	.00	6120	10	165	7010	10	189
4	7000	10	189	5360	10	145	923	0	.00
5	7560	10	204	2140	0	.00	850	0	.00
6	3250	0	.00	197	0	.00	13400	20	724
7	3990	0	.00	54	0	.00	9270	10	250
8	11100	10	300	7960	10	215	9970	10	269
9	1310	0	.00	6320	10	171	8460	10	228
10	236	0	.00	7500	10	202	10500	10	283
11	10200	10	275	8190	10	221	6110	10	165
12	11300	10	305	4970	0	.00	2600	0	.00
13	7370	10	199	64	0	.00	10100	10	273
14	11200	10	302	75	0	.00	6520	10	176
15	11300	10	305	8220	10	222	9610	10	259
16	107	0	.00	7820	10	211	5310	10	143
17	2140	0	.00	6510	10	176	4670	0	.00
18	9370	10	253	3190	0	.00	992	0	.00
19	10800	10	292	4450	0	.00	1190	0	.00
20	10800	10	292	766	0	.00	7790	10	210
21	14200	20	767	1220	0	.00	2500	0	.00
22	8720	10	235	7400	10	200	2500	0	.00
23	231	0	.00	8650	10	234	3200	0	.00
24	832	0	.00	9220	10	249	3920	0	.00
25	6880	10	186	144	0	.00	98	0	.00
26	9660	10	261	142	0	.00	69	0	.00
27	9020	10	244	1550	0	.00	1430	0	.00
28	4430	0	.00	431	0	.00	2490	0	.00
29	6020	10	163	10100	10	273	5410	10	146
30	429	0	.00	7550	10	204	2020	0	.00
31	459	0	.00	---	---	---	4380	0	.00
TOTAL	195259	---	5469.00	147743	---	3467.00	159732	---	3759.00
		JANUARY			FEBRUARY			MARCH	
1	54	0	.00	8880	10	240	6440	10	174
2	3400	0	.00	5990	10	162	11500	10	310
3	6700	10	181	6410	10	173	5420	10	146
4	9330	10	252	1220	0	.00	10100	10	273
5	5190	10	140	2270	0	.00	5880	10	159
6	6980	10	188	3770	0	.00	5950	10	161
7	9630	10	260	1880	0	.00	10300	10	278
8	8810	10	238	2860	0	.00	8330	10	225
9	8710	10	235	2540	0	.00	7020	10	190
10	12500	20	675	2520	0	.00	3420	0	.00
11	12200	10	329	836	0	.00	9120	10	246
12	6840	10	185	73	0	.00	14100	20	761
13	9110	10	246	2990	0	.00	7840	10	212
14	10900	10	294	6410	10	173	5190	10	140
15	6160	10	166	8590	10	232	8660	10	234
16	7210	10	195	9690	10	262	8150	10	220
17	10600	10	286	8550	10	231	11900	10	321
18	9280	10	251	6300	10	170	10300	10	278
19	6340	10	171	1490	0	.00	5320	10	144
20	3550	0	.00	2590	0	.00	2000	0	.00
21	4890	0	.00	4050	0	.00	9860	10	266
22	3810	0	.00	6010	10	162	7420	10	200
23	3010	0	.00	9020	10	244	3210	0	.00
24	3820	0	.00	8700	10	235	2420	0	.00
25	6460	10	174	9030	10	244	6940	10	187
26	8030	10	217	11300	10	305	1490	0	.00
27	7260	10	196	4910	0	.00	63000	130	22100
28	11900	10	321	8960	10	242	106000	310	88700
29	3020	0	.00	---	---	---	71300	150	28900
30	2210	0	.00	---	---	---	58200	110	17300
31	10300	10	278	---	---	---	25000	40	3020
TOTAL	218204	---	5478.00	147839	---	3075.00	514780	---	165145.0

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, AR--Continued

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

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)
		APRIL			MAY			JUNE	
1	17800	20	961	179	0	.00	54900	100	14800
2	22300	30	1810	15300	20	826	46500	80	10000
3	14300	20	772	15500	20	837	49800	90	12100
4	20100	30	1630	15200	20	821	57500	110	17100
5	28300	40	3060	19000	30	1540	56400	110	16800
6	24600	40	2660	12500	20	675	53300	100	14400
7	11300	10	305	115	0	.00	53800	100	14500
8	9750	10	263	229	0	.00	37300	60	6040
9	6490	10	175	5090	10	137	36200	60	5860
10	8080	10	218	98	0	.00	36100	60	5850
11	13200	20	713	1170	0	.00	38300	70	7240
12	14300	20	772	2310	0	.00	23100	30	1870
13	10700	10	289	4080	0	.00	15200	20	821
14	10500	10	283	194	0	.00	18700	30	1510
15	16400	20	886	226	0	.00	11900	10	321
16	8530	10	230	11000	10	297	13400	20	724
17	4020	0	.00	9050	10	244	13400	20	724
18	16200	20	875	10500	10	283	10800	10	292
19	6230	10	168	9870	10	266	7460	10	201
20	4820	0	.00	8360	10	226	26300	40	2840
21	2960	0	.00	13200	20	713	18000	20	972
22	5420	10	146	11300	10	305	37100	60	6010
23	5310	10	143	32500	50	4390	37400	60	6060
24	254	0	.00	38100	70	7200	53200	100	14400
25	9990	10	270	48100	90	11700	66300	130	23300
26	3660	0	.00	48600	90	11800	70600	150	28600
27	5660	10	153	41900	70	7920	72800	150	29500
28	1590	0	.00	43300	80	9350	66000	130	23200
29	3250	0	.00	49300	90	12000	77600	170	35600
30	4050	0	.00	49100	90	11900	80400	170	36900
31	---	---	---	50800	90	12300	---	---	---
TOTAL	310064	---	16782.00	566171	---	95730.00	1239760	---	338535
		JULY			AUGUST			SEPTEMBER	
1	77900	170	35800	8850	10	239	36700	60	5950
2	77600	170	35600	7550	10	204	35400	60	5730
3	78900	170	36200	6440	10	174	35700	60	5780
4	78700	170	36100	7820	10	211	17700	20	956
5	78500	170	36000	5190	10	140	17400	20	940
6	77200	160	33400	11900	10	321	30400	50	4100
7	77800	170	35700	9750	10	263	25200	40	2720
8	77000	160	33300	15500	20	837	26300	40	2840
9	82700	180	40200	16400	20	886	29500	50	3980
10	76300	160	33000	10700	10	289	35600	60	5770
11	56400	110	16800	5610	10	151	36200	60	5860
12	47600	90	11600	2240	0	.00	31300	50	4230
13	42400	70	8010	211	0	.00	36000	60	5830
14	36400	60	5900	4270	0	.00	32700	50	4410
15	34900	60	5650	3920	0	.00	33700	60	5460
16	36000	60	5830	18400	20	994	38600	70	7300
17	35000	60	5670	16800	20	907	39700	70	7500
18	25500	40	2750	33800	60	5480	37700	60	6110
19	24200	40	2610	33000	50	4450	37800	60	6120
20	22300	30	1810	22800	30	1850	31900	50	4310
21	21200	30	1720	17800	20	961	24100	40	2600
22	34400	60	5570	20900	30	1690	26700	40	2880
23	28400	40	3070	32700	50	4410	27500	40	2970
24	13400	20	724	35600	60	5770	34400	60	5570
25	17800	20	961	30300	50	4090	33700	60	5460
26	17300	20	934	27600	40	2980	31100	50	4200
27	33600	60	5440	20800	30	1680	25300	40	2730
28	24500	40	2650	13800	20	745	26400	40	2850
29	21700	30	1760	23800	40	2570	29100	50	3930
30	1830	0	.00	36300	60	5880	27500	40	2970
31	131	0	.00	35800	60	5800	---	---	---
TOTAL	1357561	---	444759.0	536551	---	53972.00	931300	---	132056

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, Hydrologic Unit 11110201, 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.--39 years, 541 ft^3/s (15.3 m^3/s), 19.70 in/yr (500 mm/yr), 392,000 acre-ft/yr (483 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, 25,200 ft^3/s (714 m^3/s) Mar. 28 at 0500 hours, gage height, 14.77 ft (4.502 m), no other peak above base of 10,000 ft^3/s (280 m^3/s); minimum, 1.4 ft^3/s (0.040 m^3/s) Oct. 3-4, gage height, 0.58 ft (0.177 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	121	103	74	246	409	1570	227	21	120	108	19
2	1.5	114	94	70	226	391	1310	207	18	146	80	17
3	1.4	100	86	67	216	1000	1080	195	17	93	65	15
4	1.5	88	80	64	248	3130	888	181	14	78	55	14
5	5.2	77	74	63	320	1860	746	162	13	60	47	14
6	6.5	70	193	60	364	1360	623	145	12	49	41	14
7	6.7	64	1040	60	354	1060	534	130	10	40	35	12
8	6.3	59	702	59	324	861	470	120	8.8	34	30	12
9	7.2	55	488	61	301	726	420	112	7.8	48	27	11
10	9.9	51	393	62	286	627	375	101	6.8	37	23	10
11	9.7	50	380	57	285	832	331	90	6.2	29	21	9.8
12	8.8	53	444	54	393	2480	296	84	5.6	23	29	10
13	7.8	52	437	55	589	1820	267	85	7.3	20	35	13
14	6.8	55	384	56	533	1390	241	81	5.7	17	34	100
15	6.3	56	344	59	465	1110	220	81	5.7	15	27	384
16	5.7	56	304	64	406	904	202	80	5.2	13	35	165
17	4.9	56	266	70	361	758	185	76	5.2	12	44	104
18	4.4	59	231	77	329	725	178	66	5.0	10	59	78
19	4.1	60	206	85	298	659	174	54	4.6	9.0	95	63
20	4.1	62	183	82	264	563	168	55	4.0	8.9	83	52
21	4.1	62	163	84	237	492	1020	55	3.7	9.9	65	44
22	3.9	61	146	83	219	441	1130	51	3.4	11	55	39
23	6.8	58	134	88	235	394	773	49	3.3	8.6	47	37
24	18	55	123	106	333	353	634	44	3.3	7.6	42	35
25	557	53	115	135	350	323	513	39	7.2	7.3	36	35
26	562	55	108	176	337	299	429	37	9.0	17	32	34
27	275	67	101	219	414	8980	367	32	9.7	32	28	59
28	176	139	96	290	432	17300	310	30	11	52	25	52
29	134	129	90	322	---	5360	264	28	24	113	25	2340
30	125	116	84	302	---	2930	228	27	33	191	22	1600
31	122	---	79	276	---	2010	---	26	---	170	21	---
TOTAL	2094.2	2153	7671	3380	9365	61547	15946	2750	290.5	1481.3	1371	5391.8
MEAN	67.6	71.8	247	109	334	1985	532	88.7	9.68	47.8	44.2	180
MAX	562	139	1040	322	589	17300	1570	227	33	191	108	2340
MIN	1.4	50	74	54	216	299	168	26	3.3	7.3	21	9.8
CFSM	.18	.19	.66	.29	.90	5.32	1.43	.24	.03	.13	.12	.48
IN.	.21	.21	.77	.34	.93	6.14	1.59	.27	.03	.15	.14	.54
AC-FT	4150	4270	15220	6700	18580	122100	31630	5450	576	2940	2720	10690

CAL YR 1976 TOTAL 92945.3 MEAN 254 MAX 3740 MIN 1.2 CFSM .68 IN 9.27 AC-FT 184400
WTR YR 1977 TOTAL 113440.8 MEAN 311 MAX 17300 MIN 1.4 CFSM .83 IN 11.31 AC-FT 225000

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, Hydrologic Unit 11110201, 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, 158,900 acre-ft (196 hm³) July 29, elevation, 372.90 ft (113.660 m); minimum, 129,100 acre-ft (159 hm³) June 29, Sept. 7, elevation, 370.01 ft (112.779 m).

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

370	129,000
373	160,100

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150700	148500	154700	132900	151300	143500	146500	142600	151900	148400	153100	152800
2	140900	144400	152100	140600	147400	143500	151900	138400	147400	148400	148400	145500
3	142100	136600	153100	141600	147400	143500	147500	141000	151800	152500	143100	151400
4	145000	134100	139000	152100	141100	149600	154000	146100	151000	150200	145300	138700
5	146900	136300	137200	146500	147000	151900	154000	140600	151300	150200	146800	132500
6	144500	136300	153100	145200	151100	146500	153200	133100	150400	149900	137700	136000
7	145500	137700	147100	147900	142600	148400	144500	134800	150400	148900	142600	129200
8	148100	142100	152500	148000	142600	145800	136800	135400	148600	153100	144500	130100
9	145500	143500	152500	152100	146500	146500	135800	133800	154300	153700	149000	131500
10	145500	142000	154300	153400	149500	132900	135800	133600	153100	151900	141400	143800
11	147600	143800	147400	152000	144700	141600	148400	136800	149000	149600	145200	149900
12	147600	131900	140800	145800	147000	149800	153100	139700	146700	152400	139700	148100
13	143500	132900	147600	147400	148400	148000	149800	143500	140600	150700	140600	147100
14	151900	133800	147000	151900	141400	138100	142100	143500	140600	149200	146900	148400
15	151400	143500	147000	145600	137600	140600	150700	143500	134800	152500	145200	150700
16	145500	141600	144000	143100	145800	142000	139700	146500	139700	152700	148400	154100
17	141100	141600	145500	152300	149000	140600	130500	149600	134800	150700	156400	151900
18	147400	139700	144500	155000	148400	146000	142000	147700	141600	140600	144300	148900
19	148400	137700	145500	147900	140600	142400	130900	144500	141600	134300	153100	151900
20	149600	141600	151300	146500	145100	144500	132900	142600	155400	141600	143500	147200
21	147400	144300	142600	144500	146500	143800	130500	145200	130200	138900	137500	139700
22	144500	144300	134800	143900	148200	146500	138200	132900	148400	148400	130000	139700
23	145500	139700	133000	142800	147300	138700	141800	147900	150700	151900	134800	142600
24	147400	144900	134700	146700	144500	139200	145500	150700	150700	143300	146500	144500
25	147400	144900	137700	149500	143500	142600	145500	148300	148400	155000	153100	151900
26	146500	146000	138700	151200	138600	141600	147100	150500	151400	151900	150200	154300
27	145700	148400	138700	152300	141400	148000	147400	149600	151400	148300	132900	149600
28	136500	146900	140300	155700	150200	147500	148300	152500	141100	142600	141600	147400
29	143500	151200	138700	146500	---	148400	140100	150700	142300	149600	138700	153100
30	146500	151200	135200	146500	---	153100	142100	149800	152100	148000	153100	148400
31	146500	---	135200	146500	---	146500	---	149800	---	148900	151900	---
MAX	151900	151200	154700	155700	151300	153100	154000	152500	155400	155000	156400	154300
MIN	136500	131900	133000	132900	137600	132900	130500	132900	130200	134300	130000	129200
(†)	371.80	372.24	370.64	371.80	372.15	371.80	371.35	372.12	372.32	372.04	372.30	372.00
(‡)	+3900	+4700	-16000	+11300	+3700	-3700	-4400	+7700	+2300	-3200	+3000	-3500

CAL YR 1976 MAX 156200 MIN 131900 ‡ -11600
WTR YR 1977 MAX 156400 MIN 129200 ‡ +5800

† 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, Hydrologic Unit 11110201, 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 prior to October 1974 and after September 1975 available from Corps of Engineers, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
06...	9827	9827	4690	--	519	7.9	18.0	25	6.9	1.2	1800	--
NOV												
03...	9827	9827	--	17200	507	8.0	15.0	20	9.0	1.1	2400	130
DEC												
07...	9827	9827	--	15000	418	8.2	5.0	5	11.5	3.4	1900	--
JAN												
05...	9827	9827	--	8210	308	8.0	4.0	15	12.7	3.0	730	84
FEB												
02...	9827	9827	--	8730	356	8.3	1.0	40	13.3	3.1	2300	--
MAR												
07...	9827	9827	--	8890	351	8.0	4.0	30	10.9	2.4	--	--
APR												
06...	9827	9827	--	29200	--	7.7	14.0	60	9.8	1.5	--	70
MAY												
04...	9827	9827	--	18200	368	7.8	20.0	--	--	--	130	--
JUN												
06...	9827	9827	57200	--	1070	8.1	28.0	50	7.4	1.5	1900	--
JUL												
12...	9827	9827	52000	--	449	8.0	29.0	40	7.7	2.1	1500	--
12...	9827	9827	--	--	--	8.0	--	40	--	--	--	--
AUG												
09...	9827	9827	13500	--	585	--	31.0	--	7.0	1.5	330	--
SEP												
13...	9827	9827	36900	--	720	8.0	28.0	40	7.8	--	1700	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	32
NOV											
03...	40	--	38	--	8.0	55	4.1	110	0	90	34
DEC											
07...	--	--	--	--	--	--	--	--	--	--	32
JAN											
05...	19	--	25	--	5.0	26	2.8	79	0	65	19
FEB											
02...	--	--	--	--	--	--	--	--	--	--	29
MAR											
07...	--	--	--	--	--	--	--	--	--	--	29
APR											
06...	--	16	--	5.9	--	42	3.8	--	--	--	28
MAY											
04...	--	--	--	--	--	--	--	--	--	--	24
JUN											
06...	--	--	--	--	--	--	--	--	--	--	59
JUL											
12...	--	18	--	7.0	--	44	--	--	--	--	34
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	39
SEP											
13...	--	--	--	--	--	--	--	--	--	--	45

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	TOTAL FIXED-RABLE RESIDUE (MG/L) (00515)	TOTAL NON-FIXED-RABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	69	305	25	.27	--	--	.05	--	--	--	<10	650
NOV												
03...	74	298	8	.21	--	--	.07	<3	<10	<3	<10	870
DEC												
07...	54	235	13	.11	--	--	.03	--	--	--	40	4000
JAN												
05...	39	176	15	<.10	--	--	.07	<3	<10	<3	40	520
FEB												
02...	54	210	12	.13	--	--	.06	--	--	--	<10	660
MAR												
07...	52	216	8	.11	--	--	.05	--	--	--	10	780
APR												
06...	53	237	36	.16	<.10	.13	.09	<10	<10	--	430	3700
MAY												
04...	53	222	35	.11	.02	.13	.10	--	--	--	80	2300
JUN												
08...	250	--	42	.28	.01	.10	.07	--	--	--	130	2500
JUL												
12...	67	--	--	.31	.01	.10	.31	--	<10	30	230	--
AUG												
09...	96	342	33	.11	<.05	.15	.10	--	--	--	70	--
SEP												
13...	130	--	14	--	--	.08	.16	--	--	--	320	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	30	91	--	20	--	--	--	--	--	--	--	--
NOV												
03...	10	60	<.5	<10	--	--	--	--	--	--	--	--
DEC												
07...	450	210	--	40	.00	.00	.00	.00	.00	.00	.00	0
JAN												
05...	90	70	--	20	--	--	--	--	--	--	--	--
FEB												
02...	<80	81	--	20	--	--	--	--	--	--	--	--
MAR												
07...	<10	48	--	<10	--	--	--	--	--	--	--	--
APR												
06...	50	200	--	290	--	--	--	--	--	--	--	--
MAY												
04...	30	120	--	60	--	--	--	--	--	--	--	--
JUN												
08...	40	150	--	110	--	--	--	--	--	--	--	--
JUL												
12...	50	--	--	390	--	--	--	--	--	--	--	--
AUG												
09...	<10	120	--	20	--	--	--	--	--	--	--	--
SEP												
13...	30	160	--	140	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110202, 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), 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 good.

AVERAGE DISCHARGE.--27 years, 397 ft^3/s (11.2 m^3/s), 19.68 in/yr (500 mm/yr), 287,600 acre-ft/yr (355 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, 26,200 ft^3/s (742 m^3/s) Mar. 28 at 0530 hours, gage height, 17.96 ft (5.474 m), no other peak above base of 7,000 ft^3/s (200 m^3/s); minimum, 0.25 ft^3/s (0.007 m^3/s) Oct. 18, gage height, 0.79 ft (0.241 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.58	101	76	38	156	581	1060	390	16	99	26	11
2	.53	84	67	37	217	489	1010	311	15	159	20	9.1
3	.49	85	57	36	212	2460	890	326	13	139	17	7.9
4	.43	54	50	33	210	3160	748	304	12	91	73	6.9
5	.65	43	44	29	243	1620	627	259	11	65	44	6.3
6	.73	37	124	28	286	1150	516	222	11	46	28	5.6
7	.70	31	482	28	281	908	444	187	9.2	34	21	5.1
8	.70	24	333	27	277	743	393	161	7.6	26	16	4.5
9	.64	22	228	31	263	636	353	137	6.5	24	13	3.9
10	.59	21	188	31	230	556	315	124	5.8	29	10	3.9
11	.49	20	246	27	210	668	286	105	5.0	24	8.3	4.0
12	.41	20	312	26	401	2150	256	89	4.6	19	8.5	3.8
13	.37	20	269	28	507	1350	232	78	4.6	16	8.4	6.2
14	.33	20	216	33	410	1050	213	70	4.1	13	7.2	9.1
15	.30	21	181	48	335	884	199	62	4.4	11	8.4	10
16	.27	21	156	71	280	723	182	54	7.2	8.6	19	11
17	.27	21	137	75	249	616	167	47	8.8	7.4	80	11
18	.25	21	118	79	227	601	165	41	7.6	5.9	405	11
19	.27	21	103	65	205	520	208	37	6.4	5.0	163	13
20	.27	22	93	70	183	452	547	33	5.6	6.3	99	11
21	.27	23	84	74	167	400	3340	30	6.8	21	71	9.8
22	.27	24	78	70	158	363	1500	30	7.3	9.3	53	8.6
23	.49	24	70	74	293	329	1110	44	6.5	7.3	40	8.0
24	4.8	28	65	81	540	308	941	33	5.7	6.4	31	106
25	314	27	58	99	435	290	723	33	5.6	8.4	25	250
26	269	41	54	131	579	278	570	34	7.1	8.3	20	123
27	131	172	51	169	962	7900	464	29	55	28	19	91
28	93	147	51	216	720	16500	385	27	57	66	18	89
29	70	111	48	211	---	3980	322	25	50	53	15	1760
30	64	90	44	204	---	2070	427	21	54	67	14	842
31	85	---	40	169	---	1350	---	18	---	41	12	---
TOTAL	1041.10	1396	4123	2338	9236	55085	18593	3361	420.4	1143.9	1392.8	3441.7
MEAN	33.6	46.5	133	75.4	330	1777	620	108	14.0	36.9	44.9	115
MAX	314	172	482	216	962	16500	3340	390	57	159	405	1760
MIN	.25	20	40	26	156	278	165	18	4.1	5.0	7.2	3.8
CFSM	.12	.17	.49	.28	1.20	6.49	2.26	.39	.05	.14	.16	.42
IN.	.14	.19	.56	.32	1.25	7.48	2.52	.46	.06	.16	.19	.47
AC-FT	2070	2770	8180	4640	18320	109300	36880	6670	834	2270	2760	6830

CAL YR 1976 TOTAL 73951.13 MEAN 202 MAX 3040 MIN .25 CFSM .74 IN 10.04 AC-FT 146700
WTR YR 1977 TOTAL 101571.90 MEAN 278 MAX 16500 MIN .25 CFSM 1.02 IN 13.79 AC-FT 201500

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, Hydrologic Unit 11110203, 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 mi² (397,995 km²) of which 22,241 mi² (57,604 km²) 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 hm³)
Top of designated power pool.....	338 (103.0 m)	486,200 (599 hm³)
Bottom of designated power pool.....	336 (102.4 m)	420,900 (519 hm³)
Crest of gated spillway.....	300 (91.4 m)	8,200 (10.1 hm³)
Bottom of lowest outlet.....	288 (87.8 m)	10 (12,330 hm³)

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 502,000 acre ft (619 hm³) June 5, 1974, July 9, 1976, elevation, 338.45 ft (103.160 m); minimum since initial filling to bottom of power pool, 415,200 acre-ft (512 hm³) Oct. 13, 1969, elevation, 335.81 ft (102.355 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 498,500 acre-ft (615 hm³) Mar. 28, elevation, 338.35 ft (103.129 m); minimum, 420,900 acre-ft (519 hm³) Sept. 11, elevation, 336.00 ft (102.413 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 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470800	475100	435200	472800	469500	469500	461100	459400	489700	475500	476200	494000
2	477200	488000	440000	472800	476200	459400	428900	456100	483900	485500	477800	489700
3	477800	484500	440000	465400	479500	485500	459400	466100	479500	488000	476200	474800
4	476200	479500	452700	468100	481200	479500	461100	468100	488300	489700	472800	480500
5	481500	471100	457400	462800	481200	472800	449500	461400	482900	489700	476200	468400
6	481500	471100	462800	460700	481200	486900	474500	461400	477800	486900	476200	471500
7	486200	471100	470100	452700	482900	477800	479500	463400	482900	482900	487600	479500
8	476200	466100	462800	470800	482900	477800	466100	463400	489700	482900	472800	467400
9	469500	466100	465400	479800	478800	482900	456100	452700	472800	479800	476200	453400
10	469500	464100	465400	446300	478800	471100	446300	446300	456100	485900	476200	426000
11	469500	467800	479800	443200	483500	473500	438400	443800	472800	466100	469500	422200
12	466100	476200	481200	447900	480200	473500	441600	443800	487600	467100	476800	429500
13	466100	476200	476200	449500	489700	482900	441600	443800	468100	472100	482900	440000
14	469500	475100	469500	449500	489700	468100	443800	433600	469500	470800	479500	452700
15	482900	469500	469500	472800	484200	454400	433600	431100	469500	451400	480500	448200
16	479500	472800	472800	479200	476200	449200	438400	431100	479500	441900	481200	432300
17	482200	472800	466100	456700	479500	450100	451100	447900	481200	474100	478200	433600
18	468100	472800	469500	443200	474500	447000	442200	443200	481200	482200	460100	428500
19	469500	472800	471100	461700	476200	458700	451100	446300	482200	485200	444100	432000
20	462800	476200	472800	474800	476800	452700	443200	446300	477800	478200	461400	446300
21	459400	473500	469500	482200	479500	452700	452700	449500	477800	479500	467400	443800
22	455400	466100	470500	489700	476200	456100	459400	485900	443200	479500	460700	436800
23	461100	469500	469500	487600	482200	466800	472800	470800	424700	482900	459400	433300
24	459400	465400	469500	481200	472800	450800	472800	456100	438700	479500	459400	434900
25	469500	466100	472800	487300	469500	450100	472800	463400	471500	463400	456100	434900
26	474500	465400	472100	483500	469500	444700	472800	480200	482900	472800	466100	438100
27	484500	465400	470800	483500	469500	488000	466100	480200	482900	487600	474800	433600
28	488300	457400	472100	479500	469500	488000	452700	481200	471500	466100	474800	427300
29	475500	447900	472100	486200	---	483200	454700	492200	468100	460700	474800	454000
30	478500	435200	475100	483500	---	483200	459400	492200	462800	474500	470800	466100
31	478500	---	472800	474500	---	493200	---	492200	---	476200	480500	---
MAX	488300	488000	481200	489700	489700	493200	479500	492200	489700	489700	487600	494000
MIN	455400	435200	435200	443200	469500	444700	428900	431100	424700	441900	444100	422200
(†)	337.77	336.45	337.60	337.65	337.50	338.20	337.20	338.17	337.30	337.70	337.83	337.40
(‡)	+7700	-43300	+37600	+1700	-5000	+23700	-33800	+32800	-29400	+13400	+4300	-14400

CAL YR 1976 MAX 499900 MIN 435200 ‡ +7400
WTR YR 1977 MAX 494000 MIN 422200 ‡ -4700

† 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, Hydrologic Unit 11110203, 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 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 mi^2 (398,010 km^2) of which 22,241 mi^2 (57,604 km^2) 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 ft^3/s (1,420 m^3/s) determined from flow through turbines.

AVERAGE DISCHARGE.--40 years, 35,970 ft^3/s (1,020 m^3/s), 26,060,000 acre-ft/yr (32,100 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 683,000 ft^3/s (19,300 m^3/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 ft^3/s (1.22 m^3/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, 221,000 ft^3/s (6,260 m^3/s) Mar. 28, gage height, 32.06 ft (9.772 m); minimum daily, 50 ft^3/s (1.42 m^3/s) Nov. 13, 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8010	8510	9010	1720	10100	11900	40000	1690	50500	69200	3890	28200
2	6370	9120	4960	170	7050	17400	39500	15600	52900	70200	11800	39500
3	290	11500	7370	8620	8830	18100	12700	11600	46000	69900	9270	41000
4	6760	8990	129	7080	7200	34100	24300	16900	42600	71000	6710	27800
5	7900	4040	582	7620	130	23400	28500	19300	54500	71900	642	23100
6	2430	132	8430	11200	2500	5350	20400	17000	54400	71900	8580	26400
7	3550	467	12200	9700	6250	17500	21100	3830	46400	72200	8350	25200
8	10300	7710	13600	90	6540	13100	19500	161	42300	72100	15600	29500
9	7620	6090	10800	9390	3440	9360	17200	13800	42100	72400	12700	32000
10	170	7730	11000	21200	1720	16400	14300	1340	40100	72500	15000	40800
11	6680	6380	9120	12600	4270	15200	15500	1090	30000	75200	8510	30700
12	11600	6430	8420	9870	3460	23800	12200	3400	25700	54300	1140	30900
13	9710	50	12600	9830	1660	15800	13500	3620	26200	40000	120	30400
14	4260	1090	12800	7660	11500	25000	16400	4860	15100	38500	2410	30000
15	5910	6730	9430	2150	14600	18400	16800	1190	13400	40000	4690	34000
16	6280	5750	9440	6530	11600	15100	10500	2180	8680	39700	14300	39800
17	90	6910	7820	19900	8360	11600	9280	3720	13800	18200	21100	37100
18	13600	4300	730	15200	12100	14900	15100	14300	10500	25000	37200	41200
19	10400	4510	210	3130	5520	5920	11900	9610	8260	27500	36100	35100
20	12200	650	6650	1980	679	5580	12200	10600	17600	21000	21600	29200
21	13800	1510	9500	2530	4120	12400	9870	7990	23600	19600	17700	28700
22	13800	10700	6180	2060	7420	6700	7100	212	41600	28100	21600	28500
23	170	7390	4670	9200	14300	4680	2970	27600	41000	27000	31700	29400
24	2550	9780	2830	7900	15200	10100	3460	40600	31800	22200	26900	28200
25	7230	420	90	3900	13700	6730	12400	40300	41700	18000	26100	29600
26	6200	2000	400	13500	18300	5230	4810	43500	54100	13600	25900	29900
27	6600	50	2400	10300	10700	33900	11200	44500	68100	25000	21700	29800
28	8840	4060	2490	13700	7500	192000	9160	40400	70700	39400	14200	30000
29	8310	10400	5050	5950	---	153000	5990	40000	69700	21700	19800	29800
30	1470	13100	5600	5340	---	94100	1370	47600	69100	1980	28900	29300
31	248	---	3800	13900	---	60600	---	48900	---	250	27200	---
TOTAL	203348	166499	198311	253820	218748	897450	439210	537393	1152440	1309530	501412	945100
MEAN	6560	5550	6397	8188	7812	28950	14640	17340	38410	42240	16170	31500
MAX	13800	13100	13600	21200	18300	192000	40000	48900	70700	75200	37200	41200
MIN	90	50	90	90	130	4680	1370	161	8260	250	120	23100
AC-FT	403300	330300	393300	503500	433900	1780000	871200	1066000	2286000	2597000	994600	1875000

CAL YR 1976 TOTAL 7498688 MEAN 20490 MAX 133000 MIN 50 AC-FT 14870000
WTR YR 1977 TOTAL 6823261 MEAN 18690 MAX 192000 MIN 50 AC-FT 13530000

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 current year.

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, 31.0°C Aug. 13; minimum daily, 1.0°C Jan 21-22.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 120 mg/L Mar. 29; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily, 62,200 tons (56,400 tonnes) Mar. 29; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
06...	9827	9827	2430	--	563	6.0	22.0	20	7.6	2.3	160	--
NOV												
03...	9827	9827	--	22500	552	6.1	15.0	15	9.2	1.9	320	130
DEC												
07...	9827	9827	--	24000	499	6.2	6.0	0	11.5	2.5	60	--
JAN												
05...	9827	9827	--	9260	403	6.1	5.0	5	11.2	2.1	240	110
FEB												
02...	9827	9827	--	32000	425	6.1	2.0	5	14.6	4.0	--	--
MAR												
07...	9827	9827	--	32900	266	7.4	7.0	20	11.4	3.0	--	--
APR												
06...	9827	9827	--	27000	239	7.6	15.0	160	9.4	2.5	--	35
MAY												
04...	9827	9827	--	23500	271	7.6	21.0	--	--	--	90	--
JUN												
08...	9827	9827	54400	--	1380	8.2	30.0	20	8.8	2.0	80	--
JUL												
12...	9827	9827	54300	--	501	8.0	32.0	40	8.2	2.6	650	--
AUG												
09...	9827	9827	--	14200	582	--	33.0	--	5.3	3.4	360	--
SEP												
13...	9827	9827	--	30100	518	8.0	27.0	50	7.1	3.3	1900	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	42
NOV											
03...	32	--	39	--	9.0	57	4.1	120	0	98	40
DEC											
07...	--	--	--	--	--	--	--	--	--	--	35
JAN											
05...	28	--	32	--	7.0	36	2.8	100	0	82	30
FEB											
02...	--	--	--	--	--	--	--	--	--	--	32
MAR											
07...	--	--	--	--	--	--	--	--	--	--	23
APR											
06...	--	5.5	--	3.6	--	21	3.2	--	--	--	18
MAY											
04...	--	--	--	--	--	--	--	--	--	--	17
JUN											
08...	--	--	--	--	--	--	--	--	--	--	67
JUL											
12...	--	39	--	7.0	--	49	--	--	--	--	42
AUG											
09...	--	--	--	--	--	--	--	--	--	--	39
SEP											
13...	--	--	--	--	--	--	--	--	--	--	42

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	88	324	24	.17	--	--	.06	--	--	--	<10	680
NOV												
03...	83	313	15	.12	--	--	.03	<3	<10	<3	<10	750
DEC												
07...	72	274	7	--	--	--	--	--	--	--	<10	210
JAN												
05...	53	227	16	<.10	--	--	.07	<3	<10	<3	50	210
FEB												
02...	64	250	10	<.10	--	--	.03	--	--	--	<10	90
MAR												
07...	38	168	10	<.10	--	--	.06	--	--	--	<10	840
APR												
06...	35	182	35	.17	<.10	.20	.09	<10	<10	--	<10	3800
MAY												
04...	40	185	19	.18	.01	.11	.10	--	--	--	<10	--
JUN												
06...	340	--	29	.26	.01	.20	.04	--	--	--	120	2400
JUL												
12...	75	--	--	.33	.01	.14	.11	--	<10	<10	60	--
AUG												
09...	95	342	19	.10	<.05	.15	.05	--	--	--	60	--
SEP												
13...	110	--	17	--	--	.08	.15	--	--	--	370	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	<10	68	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV												
03...	<10	70	<.5	<10	.00	.00	.00	.00	.00	.00	.00	0
DEC												
07...	250	<27	--	10	--	--	--	--	--	--	--	--
JAN												
05...	20	41	--	<10	--	--	--	--	--	--	--	--
FEB												
02...	<10	<27	--	<10	--	--	--	--	--	--	--	--
MAR												
07...	<10	79	--	<10	--	--	--	--	--	--	--	--
APR												
06...	<10	120	--	40	--	--	--	--	--	--	--	--
MAY												
04...	20	120	--	<10	--	--	--	--	--	--	--	--
JUN												
06...	<10	110	--	60	--	--	--	--	--	--	--	--
JUL												
12...	10	--	--	<10	--	--	--	--	--	--	--	--
AUG												
09...	10	120	--	<10	--	--	--	--	--	--	--	--
SEP												
13...	30	170	--	170	--	--	--	--	--	--	--	--

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

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

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	22.0	13.5	13.5	---	---	---	---	2.0	2.0	9.5	9.5
2	22.5	22.5	13.5	13.0	---	---	---	---	2.0	2.0	9.5	9.5
3	23.0	22.5	13.0	13.0	---	---	---	---	2.0	2.0	10.0	9.5
4	23.0	22.0	13.0	12.5	---	---	---	---	2.5	2.0	10.0	10.0
5	22.0	21.5	12.5	12.5	---	---	---	---	2.5	2.5	10.0	10.0
6	21.0	20.0	12.5	12.5	---	---	---	---	3.0	2.5	10.0	10.0
7	20.0	19.5	12.5	12.0	---	---	---	---	3.0	3.0	10.5	10.0
8	19.5	19.5	12.0	11.5	---	---	---	---	3.0	3.0	10.5	10.0
9	19.5	19.0	11.5	11.5	7.0	7.0	---	---	3.5	3.0	10.5	10.0
10	19.0	19.0	11.5	11.5	7.0	6.5	---	---	4.0	3.5	10.5	10.5
11	19.0	18.5	12.0	11.5	6.5	6.5	---	---	4.0	4.0	11.5	10.5
12	18.5	18.0	11.5	11.0	6.5	6.5	---	---	4.0	4.0	11.5	11.5
13	19.0	18.0	11.0	11.0	7.0	6.5	---	---	4.5	4.0	12.0	11.5
14	19.0	18.5	---	---	7.0	6.5	---	---	4.5	4.5	12.0	12.0
15	18.5	18.5	---	---	6.5	6.0	---	---	5.0	4.5	13.0	12.0
16	18.5	18.0	---	---	6.0	6.0	---	---	5.0	5.0	13.0	13.0
17	18.0	17.5	---	---	6.5	6.0	---	---	5.5	5.0	13.0	13.0
18	17.5	17.0	---	---	7.0	6.5	---	---	5.5	5.5	13.0	13.0
19	17.0	17.0	---	---	7.0	7.0	---	---	6.0	5.5	13.0	13.0
20	17.0	16.0	---	---	7.0	6.5	---	---	6.0	5.5	13.5	13.0
21	16.0	16.0	---	---	---	---	1.5	1.0	6.5	6.0	13.5	13.0
22	16.0	15.0	---	---	---	---	1.5	1.0	6.5	6.0	14.0	13.0
23	15.0	15.0	---	---	---	---	1.5	1.5	7.0	6.0	14.0	13.5
24	15.0	15.0	---	---	---	---	2.0	1.5	7.5	7.0	14.0	14.0
25	15.0	15.0	---	---	---	---	2.0	1.5	8.5	8.5	14.0	14.0
26	15.0	14.5	---	---	---	---	2.0	2.0	8.5	8.5	14.0	14.0
27	14.5	14.0	---	---	---	---	2.5	2.0	8.5	8.5	14.0	13.5
28	14.0	14.0	---	---	---	---	2.5	2.5	9.5	9.0	15.0	14.0
29	14.5	14.0	---	---	---	---	2.5	2.0	---	---	15.0	15.0
30	14.0	13.5	---	---	---	---	2.0	2.0	---	---	15.5	15.0
31	13.5	13.5	---	---	---	---	2.0	2.0	---	---	15.5	15.5
MONTH	23.0	13.5	13.5	11.0	7.0	6.0	2.5	1.0	9.5	2.0	15.5	9.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.5	15.5	20.0	19.5	25.5	25.5	28.0	27.5	30.0	29.0	28.5	28.0
2	15.5	15.5	19.5	19.0	25.5	25.5	27.5	27.5	29.0	29.0	29.0	28.5
3	16.0	16.0	20.0	19.0	25.5	25.0	27.5	27.5	29.0	28.5	29.0	29.0
4	16.0	16.0	20.0	20.0	26.0	25.0	28.0	27.5	29.0	28.5	29.0	29.0
5	16.5	14.5	20.5	20.0	27.0	26.0	28.5	28.0	29.5	28.5	29.0	29.0
6	15.0	14.5	21.0	20.5	27.0	26.5	28.5	28.5	29.0	28.5	29.0	29.0
7	15.5	15.0	21.5	21.0	26.5	26.5	29.5	28.5	29.5	28.5	29.0	29.0
8	15.5	15.5	22.5	21.5	26.5	26.0	29.5	29.0	29.5	29.0	29.0	28.5
9	16.0	15.5	22.0	21.5	26.0	25.5	29.5	29.0	30.0	29.0	28.5	28.0
10	16.0	15.5	22.0	21.0	25.5	25.0	29.0	29.0	29.5	29.0	28.5	28.0
11	16.0	15.5	22.0	21.0	26.0	25.5	29.0	29.0	29.5	29.0	28.0	27.5
12	16.5	16.0	21.5	21.0	26.5	26.0	29.0	29.0	30.0	29.0	27.5	27.0
13	17.5	16.5	22.0	21.0	26.5	26.0	29.5	29.0	31.0	29.0	27.0	26.5
14	18.0	17.5	22.5	21.5	26.5	26.0	30.0	30.0	29.5	29.0	26.5	26.0
15	18.5	18.0	22.0	21.5	26.5	26.0	30.5	30.0	30.0	29.0	26.0	25.5
16	19.0	18.5	23.0	22.0	26.0	26.0	30.5	30.0	29.5	29.0	25.5	25.0
17	19.0	18.5	23.0	22.0	26.0	26.0	30.5	30.0	29.5	29.0	25.0	25.0
18	18.5	18.0	22.5	22.0	26.0	26.0	30.5	30.0	29.5	29.0	25.0	24.5
19	19.0	18.5	22.5	22.5	26.0	25.5	30.5	30.5	29.5	29.0	25.0	25.0
20	19.0	19.0	23.5	22.5	26.0	26.0	30.5	30.0	29.0	29.0	25.0	25.0
21	19.0	18.5	24.0	24.0	26.5	26.0	30.5	30.0	29.0	28.0	25.0	24.5
22	20.0	19.0	25.0	24.0	27.5	26.0	30.5	30.5	28.5	28.0	24.5	24.0
23	20.0	20.0	25.0	24.0	27.5	27.5	30.5	30.0	28.0	28.0	24.5	24.0
24	20.0	20.0	25.0	25.0	28.0	27.5	30.5	30.0	28.5	28.0	24.5	24.0
25	20.0	19.5	26.0	25.0	27.5	27.5	30.0	30.0	28.5	28.0	24.5	24.5
26	20.5	19.5	25.5	25.5	27.5	27.5	30.0	30.0	28.5	28.5	25.0	24.5
27	20.0	19.5	25.5	25.0	27.5	26.5	30.0	29.5	28.5	28.5	25.0	25.0
28	20.0	19.5	25.5	25.5	27.5	27.0	29.5	29.0	28.5	28.5	25.0	25.0
29	20.0	20.0	25.5	25.0	27.5	27.5	29.0	29.0	28.5	28.5	25.0	25.0
30	21.0	20.0	25.0	25.0	28.0	27.5	29.5	29.0	28.5	28.5	25.0	25.0
31	---	---	25.5	24.5	---	---	30.0	29.0	28.5	28.5	---	---
MONTH	21.0	14.5	26.0	19.0	28.0	25.0	30.5	27.5	31.0	28.0	29.0	24.0

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

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

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	11700	10	316	2600	0	.00	13200	10	356
2	8980	10	242	127	0	.00	9000	10	243
3	8350	10	225	5790	0	.00	4960	0	.00
4	5080	0	.00	9910	10	268	10600	10	286
5	7480	0	.00	10800	10	292	14100	10	381
6	10300	10	278	10500	10	283	32700	20	1770
7	9380	10	253	13700	10	370	36200	20	1950
8	7300	0	.00	10300	10	278	35100	20	1900
9	12200	10	329	3610	0	.00	20500	10	553
10	9370	10	253	7170	0	.00	14400	10	389
11	3920	0	.00	7850	10	212	12200	10	329
12	5260	0	.00	16700	10	451	14300	10	386
13	15800	10	427	15900	10	429	1510	0	.00
14	14000	10	378	14400	10	389	1920	0	.00
15	16400	10	443	3400	0	.00	31100	20	1680
16	16000	10	432	94	0	.00	22900	10	618
17	11400	10	308	4430	0	.00	24400	20	1320
18	3780	0	.00	8420	10	227	23900	20	1290
19	1610	0	.00	11600	10	313	23800	20	1290
20	6150	0	.00	13900	10	375	14700	10	397
21	12600	10	340	20300	10	548	50	0	.00
22	11800	10	319	50	0	.00	18800	10	508
23	8540	10	231	50	0	.00	17700	10	478
24	10600	10	286	13600	10	367	2750	0	.00
25	10000	10	270	20400	10	551	760	0	.00
26	6160	0	.00	19000	10	513	1410	0	.00
27	8190	10	221	50	0	.00	2610	0	.00
28	6350	0	.00	14100	10	381	13200	10	356
29	9260	10	250	50	0	.00	38600	20	2080
30	7530	0	.00	1300	0	.00	35500	20	1920
31	9640	10	260	---	---	---	21200	10	572
TOTAL	285130	---	6061.00	260101	---	6247.00	514070	---	21052.00

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)
		JANUARY			FEBRUARY			MARCH	
1	19000	10	513	50	0	.00	8260	10	223
2	24800	20	1340	8750	10	236	7110	0	.00
3	17200	10	464	10800	10	292	15600	10	421
4	14600	10	394	8640	10	233	14400	10	389
5	25500	20	1380	3680	0	.00	14100	10	381
6	22600	10	610	11400	10	308	7150	0	.00
7	23200	10	626	3390	0	.00	50	0	.00
8	29900	20	1610	50	0	.00	13600	10	367
9	25800	20	1390	7390	0	.00	45300	30	3670
10	23800	20	1290	7760	0	.00	53800	30	4360
11	20900	10	564	7450	0	.00	45300	30	3670
12	28700	20	1550	6240	0	.00	40100	30	3250
13	2870	0	.00	8520	10	230	39000	20	2110
14	7560	0	.00	540	0	.00	31700	20	1710
15	7370	0	.00	50	0	.00	32200	20	1740
16	13200	10	356	4920	0	.00	28600	20	1540
17	4680	0	.00	10000	10	270	22700	10	613
18	50	0	.00	19700	10	532	13500	10	364
19	7750	0	.00	15600	10	421	22600	10	610
20	10900	10	294	12200	10	329	29600	20	1600
21	8700	10	235	6060	0	.00	29800	20	1610
22	5830	0	.00	550	0	.00	25000	20	1350
23	6170	0	.00	9450	10	255	16900	10	456
24	2610	0	.00	18600	10	502	19700	10	532
25	1130	0	.00	6830	0	.00	19100	10	516
26	6610	0	.00	5030	0	.00	20000	10	540
27	7800	0	.00	5630	0	.00	3410	0	.00
28	10700	10	289	420	0	.00	2450	0	.00
29	9060	10	245	1230	0	.00	17400	10	470
30	7390	0	.00	---	---	---	16200	10	437
31	3850	0	.00	---	---	---	15000	10	405
TOTAL	400230	---	13150.00	200930	---	3608.00	669630	---	33334.00

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

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

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)
		APRIL			MAY			JUNE	
1	17600	10	475	62500	40	6750	44800	30	3630
2	21400	10	578	51900	30	4200	49000	30	3970
3	17800	10	481	48100	30	3900	47300	30	3830
4	13000	10	351	43700	30	3540	40200	30	3260
5	9400	10	254	39100	20	2110	40500	30	3280
6	11700	10	316	38500	20	2080	38300	20	2070
7	16200	10	437	39300	20	2120	30700	20	1660
8	15400	10	416	47000	30	3810	30700	20	1660
9	16000	10	432	43000	30	3480	27400	20	1480
10	3290	0	.00	39700	30	3220	32100	20	1730
11	80	0	.00	38300	20	2070	32200	20	1740
12	14800	10	400	35000	20	1890	15400	10	416
13	12500	10	337	48600	30	3940	8070	10	218
14	13800	10	373	65100	40	7030	19600	10	529
15	14700	10	397	60700	40	6560	17000	10	459
16	12300	10	332	49000	30	3970	16100	10	435
17	50	0	.00	40400	30	3270	17100	10	462
18	5590	0	.00	40900	30	3310	17800	10	481
19	25500	20	1380	46200	30	3740	7100	0	.00
20	61500	40	6640	45400	30	3680	10300	10	278
21	129000	80	27900	40600	30	3290	13900	10	375
22	133000	80	28700	34800	20	1880	20000	10	540
23	133000	80	28700	37800	20	2040	17600	10	475
24	111000	70	21000	37300	20	2010	22100	10	597
25	73100	50	9870	32700	20	1770	32600	20	1760
26	59400	40	6420	34800	20	1880	40800	30	3300
27	62500	40	6750	37400	20	2020	37500	20	2030
28	52200	30	4230	30800	20	1660	33400	20	1800
29	48600	30	3940	38900	20	2100	29500	20	1590
30	49900	30	4040	42100	30	3410	19100	10	516
31	---	---	---	44300	30	3590	---	---	---
TOTAL	1154310	---	155149.0	1333900	---	100320	808170	---	44571.00

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)
		JULY			AUGUST			SEPTEMBER	
1	18500	10	499	10800	10	292	10700	10	289
2	22000	10	594	19900	10	537	4520	0	.00
3	24600	20	1330	21700	10	586	3870	0	.00
4	41900	30	3390	25300	20	1370	3190	0	.00
5	59900	40	6470	18200	10	491	320	0	.00
6	80000	50	10800	25100	20	1360	1610	0	.00
7	85100	50	11500	4490	0	.00	7780	0	.00
8	86100	50	11600	2370	0	.00	8510	10	230
9	88600	50	12000	14400	10	389	10500	10	283
10	89700	60	14500	12600	10	340	3060	0	.00
11	87900	50	11900	9670	10	261	1650	0	.00
12	90600	60	14700	13400	10	362	4570	0	.00
13	89300	50	12100	15400	10	416	5010	0	.00
14	88300	50	11900	7140	0	.00	6320	0	.00
15	88300	50	11900	3300	0	.00	9420	10	254
16	88300	50	11900	14500	10	391	13100	10	354
17	88500	50	11900	15400	10	416	8390	10	227
18	71800	40	7750	14700	10	397	5140	0	.00
19	56100	40	6060	14000	10	378	4270	0	.00
20	52400	30	4240	9800	10	265	9070	10	245
21	55000	30	4450	1430	0	.00	15200	10	410
22	41900	30	3390	1480	0	.00	8330	10	225
23	41900	30	3390	13300	10	359	5340	0	.00
24	41200	30	3340	13200	10	356	5840	0	.00
25	41000	30	3320	11900	10	321	160	0	.00
26	40800	30	3300	13600	10	367	1880	0	.00
27	34900	20	1880	17800	10	481	4400	0	.00
28	35900	20	1940	120	0	.00	5330	0	.00
29	31100	20	1680	2570	0	.00	8980	10	242
30	28200	20	1520	9100	10	246	10700	10	289
31	21600	10	583	8130	10	220	---	---	---
TOTAL	1811400	---	205826	364800	---	10601.00	187160	---	3048.00

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

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

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	8010	10	216	8510	10	230	9010	10	243
2	6370	0	.00	9120	10	246	4960	0	.00
3	290	0	.00	11500	10	310	7370	0	.00
4	6760	0	.00	8990	10	243	129	0	.00
5	7900	10	213	4040	0	.00	582	0	.00
6	2430	0	.00	132	0	.00	8430	10	228
7	3550	0	.00	467	0	.00	12200	10	329
8	10300	10	278	7710	0	.00	13600	10	367
9	7620	0	.00	6090	0	.00	10800	10	292
10	170	0	.00	7730	0	.00	11000	10	297
11	6680	0	.00	6380	0	.00	9120	10	246
12	11600	10	313	6430	0	.00	8420	10	227
13	9710	10	262	50	0	.00	12600	10	340
14	4260	0	.00	1090	0	.00	12800	10	346
15	5910	0	.00	6730	0	.00	9430	10	255
16	6280	0	.00	5750	0	.00	9440	10	255
17	90	0	.00	6910	0	.00	7820	10	211
18	13600	10	367	4300	0	.00	730	0	.00
19	10400	10	281	4510	0	.00	210	0	.00
20	12200	10	329	650	0	.00	6650	0	.00
21	13800	10	373	1510	0	.00	9500	10	256
22	13800	10	373	10700	10	289	6180	0	.00
23	170	0	.00	7390	0	.00	4670	0	.00
24	2550	0	.00	9780	10	264	2830	0	.00
25	7230	0	.00	420	0	.00	90	0	.00
26	6200	0	.00	2000	0	.00	400	0	.00
27	6600	0	.00	50	0	.00	2400	0	.00
28	8840	10	239	4060	0	.00	2490	0	.00
29	8310	10	224	10400	10	281	5050	0	.00
30	1470	0	.00	13100	10	354	5600	0	.00
31	248	0	.00	---	---	---	3800	0	.00
TOTAL	203348	---	3468.00	166499	---	2217.00	198311	---	3892.00

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)
		JANUARY			FEBRUARY			MARCH	
1	1720	0	.00	10100	10	273	11900	10	321
2	170	0	.00	7050	0	.00	17400	10	470
3	8620	10	233	8830	10	238	18100	10	489
4	7080	0	.00	7200	0	.00	34100	20	1840
5	7620	0	.00	130	0	.00	23400	10	632
6	11200	10	302	2500	0	.00	5350	0	.00
7	9700	10	262	6250	0	.00	17500	10	472
8	90	0	.00	6540	0	.00	13100	10	354
9	9390	10	254	3440	0	.00	9360	10	253
10	21200	10	572	1720	0	.00	16400	10	443
11	12600	10	340	4270	0	.00	15200	10	410
12	9870	10	266	3460	0	.00	23800	20	1290
13	9830	10	265	1660	0	.00	15800	10	427
14	7660	0	.00	11500	10	310	25000	20	1350
15	2150	0	.00	14600	10	394	18400	10	497
16	6530	0	.00	11600	10	313	15100	10	408
17	19900	10	537	8360	10	226	11600	10	313
18	15200	10	410	12100	10	327	14900	10	402
19	3130	0	.00	5520	0	.00	5920	0	.00
20	1980	0	.00	678	0	.00	5680	0	.00
21	2530	0	.00	4120	0	.00	12400	10	335
22	2060	0	.00	7420	0	.00	6700	0	.00
23	9200	10	248	14300	10	386	4680	0	.00
24	7900	10	213	15200	10	410	10100	10	273
25	3800	0	.00	13700	10	370	6730	0	.00
26	13500	10	364	18300	10	494	5230	0	.00
27	10300	10	278	10700	10	289	33900	20	1830
28	13700	10	370	7500	0	.00	192000	120	62200
29	5950	0	.00	---	---	---	153000	90	37200
30	5340	0	.00	---	---	---	94100	60	15200
31	13900	10	375	---	---	---	60600	40	6540
TOTAL	253820	---	5289.00	218748	---	4030.00	897450	---	133949.0

07258000 ARKANSAS RIVER AT DARDANELLE, AR--Continued

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

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)
		APRIL			MAY			JUNE	
1	40000	30	3240	1690	0	.00	50500	30	4090
2	39500	30	3200	15600	10	421	52900	30	4280
3	12700	10	343	11600	10	313	46000	30	3730
4	24300	20	1310	16900	10	456	42600	30	3450
5	28500	20	1540	19300	10	521	54500	30	4410
6	20400	10	551	17000	10	459	54400	30	4410
7	21100	10	570	3830	0	.00	46400	30	3760
8	19500	10	526	161	0	.00	42300	30	3430
9	17200	10	464	13800	10	373	42100	30	3410
10	14300	10	386	1340	0	.00	40100	30	3250
11	15500	10	418	1090	0	.00	30000	20	1620
12	12200	10	329	3400	0	.00	25700	20	1390
13	13500	10	364	3620	0	.00	26200	20	1410
14	16400	10	443	4860	0	.00	15100	10	408
15	16800	10	454	1190	0	.00	13400	10	362
16	10500	10	283	2180	0	.00	8680	10	234
17	9280	10	251	3720	0	.00	13800	10	373
18	15100	10	408	14300	10	386	10500	10	283
19	11900	10	321	9610	10	259	8260	10	223
20	12200	10	329	10600	10	286	17600	10	475
21	9870	10	266	7990	10	216	23600	20	1270
22	7100	0	.00	212	0	.00	41600	30	3370
23	2970	0	.00	27600	20	1490	41000	30	3320
24	3460	0	.00	40600	30	3290	31800	20	1720
25	12400	10	335	40300	30	3260	41700	30	3380
26	4810	0	.00	43500	30	3520	54100	30	4380
27	11200	10	302	44500	30	3600	68100	40	7350
28	9160	10	247	40400	30	3270	70700	40	7640
29	5990	0	.00	40000	30	3240	69700	40	7530
30	1370	0	.00	47600	30	3860	69100	40	7460
31	---	---	---	48900	30	3960	---	---	---
TOTAL	439210	---	16880.00	537393	---	33180.00	1152440	---	92418

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)
		JULY			AUGUST			SEPTEMBER	
1	69200	40	7470	3890	0	.00	28200	20	1520
2	70200	40	7580	11800	10	319	39500	30	3200
3	69900	40	7550	9270	10	250	41000	30	3320
4	71000	40	7670	6710	0	.00	27800	20	1500
5	71900	40	7770	642	0	.00	23100	10	624
6	71900	40	7770	8580	10	232	26400	20	1430
7	72200	40	7800	8350	10	225	25200	20	1360
8	72100	40	7790	15600	10	421	29500	20	1590
9	72400	40	7820	12700	10	343	32000	20	1730
10	72500	50	9790	15000	10	405	40800	30	3300
11	75200	50	10200	8510	10	230	30700	20	1660
12	54300	30	4400	1140	0	.00	30900	20	1670
13	40000	30	3240	120	0	.00	30400	20	1640
14	38500	20	2080	2410	0	.00	30000	20	1620
15	40000	30	3240	4690	0	.00	34000	20	1840
16	39700	30	3220	14300	10	386	39800	30	3220
17	18200	10	491	21100	10	570	37100	20	2000
18	25000	20	1350	37200	20	2010	41200	30	3340
19	27500	20	1490	36100	20	1950	35100	20	1900
20	21000	10	567	21600	10	583	29200	20	1580
21	19600	10	529	17700	10	478	28700	20	1550
22	28100	20	1520	21600	10	583	28500	20	1540
23	27000	20	1460	31700	20	1710	29400	20	1590
24	22200	10	599	26900	20	1450	28200	20	1520
25	18000	10	486	26100	20	1410	29600	20	1600
26	13600	10	367	25900	20	1400	29900	20	1610
27	25000	20	1350	21700	20	1170	29800	20	1610
28	39400	20	2130	14200	10	383	30000	20	1620
29	21700	10	586	19800	10	535	29800	20	1610
30	1980	0	.00	28900	20	1560	29300	20	1580
31	250	0	.00	27200	20	1470	---	---	---
TOTAL	1309530	---	118315.0	501412	---	20073.00	945100	---	55874

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, Hydrologic Unit 11110204, 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.--38 years (1939-77), 250 ft^3/s (7.08 m^3/s), 14.09 in/yr (358 mm/yr), 181,100 acre-ft/yr (223 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 and contracted-opening measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,200 ft^3/s (430 m^3/s) Mar. 28 at 0800 hours, gage height, 21.19 ft (6.459 m), no other peak above base of 4,000 ft^3/s (110 m^3/s); minimum, 0.12 ft^3/s (0.003 m^3/s) Aug. 10, gage height, 1.39 ft (0.424 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	67	13	19	147	112	354	23	5.2	19	3.1	4.9
2	.60	50	13	17	137	100	336	24	4.3	69	1.1	2.8
3	.58	39	12	17	219	3230	267	27	3.5	20	.69	1.8
4	.65	30	11	19	335	3010	218	24	2.9	9.3	.53	1.3
5	150	24	11	22	250	825	174	20	2.4	5.2	.48	1.3
6	109	20	141	25	191	518	140	17	1.8	3.5	.48	1.6
7	29	18	387	24	157	368	120	15	1.3	2.5	.44	1.3
8	14	16	189	25	135	280	101	13	1.1	1.8	.36	.80
9	8.0	14	119	35	122	228	87	10	.83	4.0	.33	.63
10	5.5	13	107	36	110	196	76	11	.76	1.8	.33	.58
11	4.2	13	878	38	111	729	65	9.7	.76	1.3	.40	.75
12	3.1	12	748	34	391	1010	56	8.2	.69	.99	.40	.83
13	2.3	12	350	58	279	472	49	6.9	.76	.76	47	19
14	1.6	13	222	964	213	328	44	5.8	.76	.63	122	36
15	1.2	13	172	1170	166	249	40	5.2	.69	.63	16	33
16	1.0	13	137	961	135	197	36	4.3	.69	.58	6.6	12
17	.77	12	111	550	123	169	33	3.7	.69	.53	8.2	6.1
18	.71	12	94	352	114	158	76	3.3	.63	.48	6.0	3.5
19	1.0	11	82	250	100	134	105	2.9	.58	.48	7.1	2.3
20	1.3	14	72	190	85	114	86	3.1	.58	.53	4.2	1.7
21	1.1	66	56	216	77	98	150	15	.53	1.1	2.7	1.3
22	1.1	38	47	267	72	84	142	50	.48	1.7	2.0	1.1
23	3.3	28	45	722	332	74	122	105	.44	.76	1.6	.89
24	66	23	42	793	288	67	84	27	.40	.53	1.7	.75
25	779	20	40	632	165	62	65	12	.40	.53	1.1	.67
26	296	20	37	504	153	59	51	7.8	98	.69	.89	.60
27	107	19	34	472	165	5260	43	5.8	65	.99	.74	.58
28	60	18	31	389	131	13300	35	4.3	12	.99	.64	2.0
29	41	16	29	249	---	2150	30	6.2	8.9	.76	.85	3.9
30	84	14	26	207	---	753	26	4.8	6.6	.63	17	1.5
31	102	---	22	165	---	468	---	7.5	---	28	9.5	---
TOTAL	1875.64	678	4278	9452	4900	34802	3211	482.5	223.67	179.69	264.46	145.48
MEAN	60.5	22.6	138	305	175	1123	107	15.6	7.46	5.80	8.53	4.85
MAX	779	67	878	1170	391	13300	354	105	98	69	122	36
MIN	.58	11	11	17	72	59	26	2.9	.40	.48	.33	.58
CFSM	.25	.09	.57	1.27	.73	4.66	.44	.07	.03	.02	.04	.02
IN.	.29	.10	.66	1.46	.76	5.37	.50	.07	.03	.03	.04	.02
AC-FT	3720	1340	8490	18750	9720	69030	6370	957	444	356	525	289

CAL YR 1976 TOTAL 25913.82 MEAN 70.8 MAX 3390 MIN .00 CFSM .29 IN 4.00 AC-FT 51400
WTR YR 1977 TOTAL 60492.44 MEAN 166 MAX 13300 MIN .33 CFSM .69 IN 9.34 AC-FT 120000

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
06...	9827	9827	114	65	7.0	16.0	240	6.8	4.5	>6800	--
26...	1028	1028	305	--	--	12.0	--	--	--	--	--
NOV											
03...	9827	9827	41	83	7.3	10.0	100	8.9	1.6	680	28
DEC											
07...	9827	9827	409	121	7.3	4.0	150	10.3	3.4	6500	--
08...	1028	1028	192	--	--	3.5	--	--	--	--	--
JAN											
05...	9827	9827	25	105	7.0	2.0	30	12.4	2.1	280	26
20...	1028	1028	182	--	--	1.5	--	--	--	--	--
FEB											
02...	9827	9827	134	76	7.8	1.0	50	13.7	3.0	250	--
MAR											
01...	1028	1028	110	--	--	8.0	--	--	--	--	--
07...	9827	9827	385	63	6.8	6.0	40	10.9	2.5	--	--
APR											
06...	9827	9827	140	73	6.9	13.0	55	9.7	1.1	--	15
12...	1028	1028	61	--	--	18.0	--	--	--	--	--
MAY											
04...	9827	9827	23	94	7.3	18.0	--	--	--	200	--
25...	1028	1028	13	--	--	23.0	--	--	--	--	--
JUN											
14...	9827	9827	.60	130	7.3	28.0	45	4.4	.8	--	--
JUL											
05...	1028	1028	5.9	--	--	27.0	--	--	--	--	--
19...	9827	9827	.50	112	7.4	30.0	40	4.8	1.7	80	--
AUG											
16...	1028	1028	7.2	--	--	27.5	--	--	--	--	--
23...	9827	9827	1.6	93	7.2	26.0	130	4.7	2.7	2400	--
SEP											
20...	9827	9827	--	106	7.4	24.0	30	4.6	1.0	1600	--
28...	1028	1028	.95	--	--	24.0	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	3.0
26...	--	--	--	--	--	--	--	--	--	--	--
NOV											
03...	8	--	6.0	--	3.0	6.7	2.7	24	0	20	7.0
DEC											
07...	--	--	--	--	--	--	--	--	--	--	17
08...	--	--	--	--	--	--	--	--	--	--	--
JAN											
05...	6	--	13	--	4.0	9.4	1.6	24	0	20	30
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
02...	--	--	--	--	--	--	--	--	--	--	15
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	8.0
APR											
06...	--	1.2	--	2.0	--	6.4	1.5	--	--	--	11
12...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	10
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	4.0	--	6.0	--	11	1.9	--	--	--	--
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	8.0
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	6.0
SEP											
20...	--	--	--	--	--	--	--	--	--	--	7.0
28...	--	--	--	--	--	--	--	--	--	--	--

07258500 PETIT JEAN RIVER NEAR BOONEVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	5.5	144	230	.63	--	--	.21	--	--	--	<10	13200
NOV												
03...	6.5	89	6	.13	--	--	.02	<3	10	<3	<10	2200
DEC												
07...	10	120	93	.22	--	--	.10	--	--	--	20	3500
JAN												
05...	8.0	72	3	<.10	--	--	.04	<3	<10	<3	20	950
FEB												
02...	7.0	78	6	.25	--	--	.01	--	--	--	<10	900
MAR												
07...	5.0	77	11	.25	--	--	.04	--	--	--	<10	1500
APR												
06...	6.5	69	6	<.10	<.10	<.10	.01	<10	<10	--	290	2000
MAY												
04...	5.5	64	15	.01	.01	.05	.01	--	--	--	110	1400
JUN												
14...	7.5	96	10	--	.00	.05	.04	--	<10	4	40	1200
JUL												
19...	6.5	81	11	--	.01	.08	.14	--	--	--	--	--
AUG												
23...	5.5	106	38	.13	<.05	.22	.09	--	--	--	--	--
SEP												
20...	5.5	--	24	.07	<.05	.35	.09	--	--	--	60	1800

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	40	310	--	50	--	--	--	--	--	--	--	--
NOV												
03...	280	78	<.5	20	--	--	--	--	--	--	--	--
DEC												
07...	<10	150	--	50	.00	.00	.00	.00	.00	.00	.00	0
JAN												
05...	90	70	--	20	--	--	--	--	--	--	--	--
FEB												
02...	680	38	--	10	--	--	--	--	--	--	--	--
MAR												
07...	<10	47	--	30	--	--	--	--	--	--	--	--
APR												
06...	30	76	--	120	--	--	--	--	--	--	--	--
MAY												
04...	30	110	--	30	--	--	--	--	--	--	--	--
JUN												
14...	<10	420	--	30	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	<10	580	--	90	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110204, 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, 96,000 acre-ft (118 hm^3) Mar. 31, elevation, 400.37 ft (122.033 m); minimum, 4,680 acre-ft (5.77 hm^3) Sept. 27, 30, elevation, 374.05 ft (114.010 m).

Capacity table (elevation, in feet, and conterts, in acre-feet)

374	4,630	390	44,810
380	14,400	395	66,370
385	27,700	401	100,100

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25500	28010	24880	24700	25800	27640	94590	32990	32010	10820	7290	5640
2	25410	27790	24760	24700	25010	27420	91380	33120	31810	10310	7310	5640
3	25280	27550	24760	24670	25040	38880	88960	33190	31710	9760	7310	5640
4	25340	27180	24640	24950	25530	50360	85960	33260	31640	9120	7290	5640
5	25500	26840	24700	24760	25740	53760	81730	33290	31580	8630	7160	5630
6	25560	26630	25190	24980	25680	55810	78000	33320	30800	8610	7030	5750
7	25650	26260	25960	24820	25530	57210	73480	33360	30000	8470	6880	5680
8	25620	25890	26320	25010	25310	56860	68970	33320	29140	8370	6760	5520
9	25560	25590	26660	25410	25040	54240	64490	33320	28340	8440	6600	5410
10	25500	25160	26870	25310	24920	51240	59930	33290	27420	8420	6490	5300
11	25440	24980	28310	25340	25040	51640	55770	33190	26510	8370	6440	5180
12	25410	24790	30430	25370	25830	55420	51520	33090	25590	8260	6340	5110
13	25340	24700	30840	25800	26600	57080	47440	33020	24610	8130	6340	4870
14	25250	24700	30340	27390	27120	56340	43020	32990	23760	7960	6360	5030
15	25220	24640	29720	30460	27330	53580	38770	32850	22890	7870	6300	5200
16	25190	24670	28860	32550	26870	50480	34370	32820	22090	7800	6260	5250
17	25040	24640	28010	33190	26540	47800	30180	32750	21220	7710	6260	5270
18	25010	24560	27060	32850	26080	44660	27760	32650	20370	7600	6300	5280
19	25190	24530	26350	32250	25680	42360	27460	32520	19490	7550	6240	5260
20	25040	24670	25650	31610	25280	38840	28010	32450	18590	7510	6230	5260
21	24980	24640	25280	30940	24980	36110	29380	32520	17660	7480	6210	5220
22	24920	24670	25100	30430	24850	33260	30900	32480	16800	7450	6200	5081
23	25040	24730	24920	31040	25470	30400	31440	32580	15900	7420	6100	5010
24	25250	24700	24820	31910	25770	27700	31810	32620	15070	7380	6000	4880
25	26630	24790	24820	31980	26050	26350	32180	32550	14570	7320	5900	4830
26	27270	24980	24730	31640	27000	26050	32350	32520	14420	7310	5810	4750
27	27550	24920	24700	31170	27700	38770	32520	32450	14030	7310	5750	4680
28	27580	24820	24700	30520	28040	77100	32690	32420	13150	7310	5680	4800
29	27670	24760	24610	29540	---	92030	32750	32350	12160	7310	5670	4910
30	27940	24730	24760	28370	---	95040	32850	32180	11510	7290	5640	4680
31	28010	---	24700	27030	---	95870	---	32110	---	7290	5630	---
MAX	28010	28010	30840	33190	28040	95870	94590	33360	32010	10820	7310	5750
MIN	24920	24530	24610	24670	24850	26050	27460	32110	11510	7290	5630	4680
(†)	385.10	384.03	384.02	384.78	385.11	400.35	386.62	386.40	378.62	376.12	374.95	374.05
(‡)	+2420	-3280	-30	+2330	+1010	+67830	-63020	-740	-20600	-4220	-1660	-950

CAL YR 1976 MAX 47280 MIN 24530 ‡ -8590
WTR YR 1977 MAX 95870 MIN 4680 ‡ -20910

† 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, Hydrologic Unit 11110204, 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).

WATER-DISCHARGE RECORDS

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.--38 years, 531 ft^3/s (15.0 m^3/s), 384,700 acre-ft/yr (474 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, 4,230 ft^3/s (120 m^3/s) Mar. 27, gage height, 20.39 ft (6.215 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	76	23	29	1040	485	1320	37	37	295	19	10
2	23	191	23	29	724	470	2060	37	37	292	27	19
3	23	188	23	28	423	1070	2020	36	37	289	34	24
4	23	189	23	28	429	356	2100	35	37	286	48	24
5	23	189	23	27	431	143	2270	33	37	258	62	27
6	21	191	24	27	428	102	2230	32	244	61	62	76
7	22	188	23	27	426	81	2340	31	364	60	61	127
8	22	188	25	27	425	710	2470	29	362	61	52	82
9	23	187	75	29	369	1750	2410	27	371	44	45	47
10	23	186	189	29	279	1960	2360	32	406	25	37	47
11	23	187	104	29	200	1380	2300	37	430	44	30	46
12	23	112	47	29	173	165	2250	35	426	62	29	28
13	22	51	279	29	176	119	2180	33	419	62	29	12
14	20	50	700	35	176	956	2230	34	416	62	29	12
15	20	44	688	47	297	1940	2340	32	411	47	29	14
16	21	28	675	64	442	1900	2270	30	406	34	29	12
17	20	28	667	292	438	1860	2170	34	414	33	30	11
18	20	27	658	669	433	1810	1540	42	430	27	29	11
19	21	27	656	618	428	1740	395	41	423	17	29	16
20	21	27	392	663	354	1690	54	41	416	16	29	29
21	21	26	218	661	311	1640	64	40	409	18	29	42
22	20	26	217	656	240	1600	139	39	402	18	29	43
23	21	26	159	661	182	1550	210	40	393	16	29	43
24	21	26	103	866	179	1510	160	38	354	18	29	43
25	24	26	102	1040	179	942	134	38	324	18	29	42
26	32	25	103	1110	184	326	130	38	324	20	22	28
27	37	23	82	1110	155	1520	80	38	361	19	13	14
28	37	23	48	1110	300	2140	48	40	452	19	14	36
29	30	23	41	1090	---	322	44	38	444	18	13	125
30	23	23	29	1080	---	168	39	39	374	17	12	122
31	30	---	29	1060	---	381	---	38	---	18	11	---
TOTAL	733	2601	6448	13199	9820	32786	40357	1114	9960	2274	969	1213
MEAN	23.6	86.7	208	426	351	1058	1345	35.9	332	73.4	31.3	40.4
MAX	37	191	700	1110	1040	2140	2470	42	452	295	62	127
MIN	20	23	23	27	155	81	39	27	37	16	11	10
AC-FT	1450	5160	12790	26180	19480	65030	80050	2210	19760	4510	1920	2410

CAL YR 1976 TOTAL 49002 MEAN 134 MAX 2160 MIN 15 AC-FT 97200
WTR YR 1977 TOTAL 121474 MEAN 333 MAX 2470 MIN 10 AC-FT 240900

07259500 PETIT JEAN RIVER NEAR WAVELAND, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)
OCT											
06...	810	1028	93	--	--	--	--	1.8	825	--	--
06...	810	810	80	6.0	19.5	295	8.7	--	--	26	32
26...	1028	1028	--	--	12.5	--	--	--	--	--	--
DEC											
08...	1028	1028	--	--	3.5	--	--	--	--	--	--
JAN											
19...	1028	1028	--	--	1.5	--	--	--	--	--	--
FEB											
28...	1028	1028	86	7.2	3.0	180	11.8	--	--	24	--
MAR											
01...	1028	1028	--	--	9.0	--	--	--	--	--	--
22...	810	1028	--	--	--	--	--	2.1	83	--	--
22...	810	810	54	7.4	12.0	200	10.5	--	--	24	6
APR											
11...	1028	1028	--	--	17.0	--	--	--	--	--	--
MAY											
25...	1028	1028	--	--	22.0	--	--	--	--	--	--
JUL											
05...	1028	1028	--	--	27.5	--	--	--	--	--	--
AUG											
16...	1028	1028	--	--	26.5	--	--	--	--	--	--
17...	810	1028	--	--	--	--	--	1.8	1200	--	--
17...	810	810	70	8.6	26.5	1500	6.6	--	--	38	14
SEP											
28...	1028	1028	--	--	23.5	--	--	--	--	--	--

DATE	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											
06...	2.0	--	12	5.3	.23	.01	.52	.53	.76	3.4	.15
06...	--	16	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	2.1	16	15	6.9	.46	.07	.56	.63	1.1	4.8	.14
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
22...	1.6	--	12	5.0	.15	.08	.75	.83	.98	4.3	.18
22...	--	10	--	--	--	--	--	--	--	--	--
APR											
11...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
17...	3.1	--	8.4	5.2	.49	.18	1.0	1.2	1.7	7.5	.40
17...	--	26	--	--	--	--	--	--	--	--	--
SEP											
28...	--	--	--	--	--	--	--	--	--	--	--

07259500 PETIT JEAN RIVER NEAR WAVELAND, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
06...	.15	2100	4	0	210	4600	<100	120	.0	<50	230
06...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	.05	5800	2	0	5	4200	4	80	.0	10	50
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
22...	.12	730	4	0	<10	1600	<100	80	.0	<50	20
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
17...	.14	3200	8	0	270	16000	<100	1300	.1	<50	270
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
28...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110204, 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.--61 years, 814 ft^3/s (23.1 m^3/s), 589,700 acre-ft/yr (727 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, 18,800 ft^3/s (532 m^3/s) Mar. 28, gage height, 24.75 ft (7.544 m); minimum daily, 7.4 ft^3/s (0.21 m^3/s) Sept. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	26	34	38	1190	756	1430	69	39	353	56	8.7
2	22	79	32	37	1140	768	1940	67	39	321	34	8.0
3	23	144	34	37	779	1900	2320	69	32	314	28	7.4
4	23	143	32	37	729	4410	2270	64	29	309	36	15
5	25	145	31	36	790	3880	2330	60	31	302	45	19
6	24	148	37	37	694	1730	2380	54	32	204	56	30
7	22	144	53	37	615	816	2340	53	346	85	57	90
8	20	142	92	36	566	716	2440	52	387	74	55	133
9	21	140	88	39	534	1560	2490	49	386	132	49	81
10	21	139	114	38	453	2150	2450	46	397	82	42	46
11	21	138	232	35	390	2350	2390	45	422	40	36	44
12	21	138	206	34	440	1850	2330	47	427	47	45	44
13	21	81	167	41	527	907	2270	45	422	64	42	51
14	21	42	478	114	471	624	2200	43	420	59	34	90
15	21	39	668	583	433	1620	2260	42	419	57	31	113
16	19	37	647	453	572	2220	2310	41	425	44	32	37
17	19	29	619	263	610	2190	2250	38	418	33	34	14
18	19	26	592	562	593	2130	2130	37	428	31	33	14
19	22	26	569	858	566	2050	1130	44	429	28	30	11
20	23	28	522	752	534	1970	234	44	424	19	30	9.5
21	21	28	200	715	461	1890	221	44	418	16	30	15
22	19	26	174	708	448	1820	249	43	413	16	30	39
23	21	26	180	750	384	1760	387	42	409	16	24	44
24	22	26	126	988	381	1710	291	41	404	16	27	44
25	33	26	103	1310	362	1610	202	38	380	15	27	44
26	32	36	101	1360	500	763	178	35	391	29	27	44
27	27	32	100	1420	863	1460	158	36	463	27	24	44
28	32	29	80	1420	668	13400	104	37	432	26	30	26
29	34	27	54	1360	---	10500	82	38	450	22	28	39
30	35	35	50	1290	---	3810	75	38	437	20	10	173
31	25	---	40	1240	---	1490	---	38	---	38	9.5	---
TOTAL	732	2125	6455	16628	16693	76810	43841	1439	10149	2839	1071.5	1377.6
MEAN	23.6	70.8	208	536	596	2478	1461	46.4	338	91.6	34.6	45.9
MAX	35	148	668	1420	1190	13400	2490	69	463	353	57	173
MIN	19	26	31	34	362	624	75	35	29	15	9.5	7.4
CFSM	.03	.09	.27	.70	.78	3.24	1.91	.06	.44	.12	.05	.06
IN.	.04	.10	.31	.81	.81	3.74	2.13	.07	.49	.14	.05	.07
AC-FT	1450	4210	12800	32980	33110	152400	86960	2850	20130	5630	2130	2730

CAL YR 1976 TOTAL 69483.0 MEAN 190 MAX 2410 MIN 12 CFSM .25 IN 3.38 AC-FT 137800
WTR YR 1977 TOTAL 180160.1 MEAN 494 MAX 13400 MIN 7.4 CFSM .65 IN 8.77 AC-FT 357300

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, Hydrologic Unit 11110204, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
06...	9827	9827	21	102	7.0	18.0	60	5.5	1.4	330	--
NOV											
03...	9827	9827	156	92	7.0	10.0	60	8.0	1.6	1000	40
DEC											
07...	9827	9827	73	96	7.2	5.0	100	9.9	3.1	300	--
JAN											
05...	9827	9827	42	81	7.1	4.0	80	12.6	3.8	600	22
FEB											
02...	9827	9827	1210	72	7.1	3.0	70	12.7	3.7	300	--
MAR											
07...	9827	9827	1090	42	6.7	6.0	70	8.1	3.1	--	--
APR											
06...	9827	9827	2460	47	6.7	15.0	140	8.5	2.4	--	13
MAY											
04...	9827	9827	84	52	6.9	19.0	--	--	--	500	--
JUN											
06...	9827	9827	38	69	7.4	30.0	100	5.7	2.7	150	--
JUL											
12...	9827	9827	47	71	7.1	32.0	380	5.8	3.9	700	--
AUG											
09...	9827	9827	52	98	--	31.0	--	5.7	4.4	3400	--
SEP											
13...	9827	9827	--	91	7.2	27.0	460	6.6	4.3	19000	--
13...	9827	9827	--	--	--	--	--	--	--	700	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	17
NOV											
03...	18	--	5.0	--	7.0	9.5	3.2	27	0	22	7.0
DEC											
07...	--	--	--	--	--	--	--	--	--	--	6.0
JAN											
05...	5	--	3.0	--	3.0	6.7	2.6	21	0	17	19
FEB											
02...	--	--	--	--	--	--	--	--	--	--	16
MAR											
07...	--	--	--	--	--	--	--	--	--	--	3.0
APR											
06...	--	.6	--	1.2	--	4.2	2.0	--	--	--	6.0
MAY											
04...	--	--	--	--	--	--	--	--	--	--	4.0
JUN											
06...	--	--	--	--	--	--	--	--	--	--	9.0
JUL											
12...	--	1.0	--	2.0	--	6.2	--	--	--	--	10
AUG											
09...	--	--	--	--	--	--	--	--	--	--	7.0
SEP											
13...	--	--	--	--	--	--	--	--	--	--	13
13...	--	--	--	--	--	--	--	--	--	--	--

07260640 PETIT JEAN RIVER NEAR CENTERVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	11	88	49	.50	--	--	.03	--	--	--	<10	3100
NOV												
03...	8.0	102	23	.32	--	--	.08	<3	20	<3	<10	4000
DEC												
07...	9.5	101	28	.28	--	--	.10	--	--	--	40	1400
JAN												
05...	8.0	77	12	.87	--	--	.11	<3	10	<3	40	2500
FEB												
02...	7.0	79	26	.34	--	--	.05	--	--	--	<10	1100
MAR												
07...	4.5	77	30	.39	--	--	.13	--	--	--	<10	2700
APR												
06...	4.5	78	37	.14	<.10	.16	.11	<10	<10	--	30	3700
MAY												
04...	3.5	63	66	.23	.01	.11	.13	--	--	--	<10	4500
JUN												
06...	6.5	--	79	.20	.01	.13	.07	--	--	--	<10	5900
JUL												
12...	6.5	--	--	.32	.05	.28	.37	--	<10	50	20	--
AUG												
09...	8.5	110	95	.26	<.05	.28	.11	--	--	--	20	--
SEP												
13...	9.0	--	308	--	--	.38	.49	--	--	--	10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	<10	390	--	10	--	--	--	--	--	--	--	--
NOV												
03...	10	170	<.5	<10	--	--	--	--	--	--	--	--
DEC												
07...	30	66	--	50	.00	.00	.02	.00	.00	.00	.00	0
JAN												
05...	<10	89	--	<10	--	--	--	--	--	--	--	--
FEB												
02...	20	94	--	<10	--	--	--	--	--	--	--	--
MAR												
07...	<10	110	--	<10	--	--	--	--	--	--	--	--
APR												
06...	10	140	--	40	--	--	--	--	--	--	--	--
MAY												
04...	20	330	--	<10	--	--	--	--	--	--	--	--
JUN												
06...	20	460	--	20	--	--	--	--	--	--	--	--
JUL												
12...	10	--	--	20	--	--	--	--	--	--	--	--
AUG												
09...	<10	460	--	50	--	--	--	--	--	--	--	--
SEP												
13...	20	830	--	290	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110203, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
06...	9827	9827	7100	538	8.2	21.0	15	7.8	1.7	100	--
NOV											
03...	9827	9827	13900	541	8.1	14.0	15	9.7	1.6	600	130
DEC											
07...	9827	9827	8900	522	8.4	6.0	5	12.3	3.0	400	--
JAN											
05...	9827	9827	10700	405	8.1	5.0	5	12.7	4.4	200	110
FEB											
02...	9827	9827	12500	371	8.1	3.0	15	14.2	4.0	240	--
MAR											
07...	9827	9827	19800	219	7.6	9.0	30	10.4	2.7	--	--
APR											
06...	9827	9827	23400	198	7.3	16.0	120	9.2	2.5	--	32
MAY											
04...	9827	9827	16700	263	7.6	20.0	--	--	--	390	--
JUN											
06...	9827	9827	59300	1380	8.2	30.0	20	8.0	3.6	110	--
JUL											
12...	9827	9827	60100	525	8.1	30.0	40	8.1	2.8	370	--
AUG											
09...	9827	9827	--	--	--	--	--	--	--	450	--
09...	9827	9827	10700	585	--	31.0	--	7.4	4.5	--	--
SEP											
13...	9827	9827	29400	601	8.0	28.0	40	6.5	1.1	420	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	36
NOV											
03...	32	--	39	--	9.0	56	4.0	120	0	98	37
DEC											
07...	--	--	--	--	--	--	--	--	--	--	37
JAN											
05...	20	--	34	--	6.0	37	2.9	110	0	90	37
FEB											
02...	--	--	--	--	--	--	--	--	--	--	24
MAR											
07...	--	--	--	--	--	--	--	--	--	--	25
APR											
06...	--	4.7	--	3.4	--	19	3.7	--	--	--	15
MAY											
04...	--	--	--	--	--	--	--	--	--	--	16
JUN											
06...	--	--	--	--	--	--	--	--	--	--	67
JUL											
12...	--	40	--	7.0	--	54	--	--	--	--	41
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	39
SEP											
13...	--	--	--	--	--	--	--	--	--	--	41

07260660 ARKANSAS RIVER AT DAM NO. 9, NEAR OPPELO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	81	318	17	.16	--	--	.04	--	--	--	<10	480
NOV												
03...	81	307	16	.44	--	--	.05	<3	<10	<3	<10	590
DEC												
07...	78	294	11	<.10	--	--	.03	--	--	--	<10	120
JAN												
05...	53	235	6	<.10	--	--	.06	<3	<10	<3	40	210
FEB												
02...	51	221	14	<.10	--	--	.05	--	--	--	<10	300
MAR												
07...	31	161	29	.17	--	--	.12	--	--	--	180	2400
APR												
06...	29	148	50	.16	<.10	.16	.10	<10	<10	--	130	3600
MAY												
04...	38	176	55	.23	.01	.10	.17	--	--	--	190	3700
JUN												
06...	330	--	35	.24	.01	.10	.05	--	--	--	120	1700
JUL												
12...	80	--	--	.30	.01	.10	.09	--	<10	10	60	--
AUG												
09...	96	340	42	.26	<.05	.16	.05	--	--	--	30	--
SEP												
13...	100	--	13	--	--	.08	.13	--	--	--	270	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	170	91	--	<10	--	--	--	--	--	--	--	--
NOV												
03...	40	74	<.5	10	--	--	--	--	--	--	--	--
DEC												
07...	<10	<27	--	<10	--	--	--	--	--	--	--	--
JAN												
05...	610	36	--	30	.00	.00	.00	.00	.00	.00	.00	0
FEB												
02...	140	53	--	<10	--	--	--	--	--	--	--	--
MAR												
07...	10	160	--	60	--	--	--	--	--	--	--	--
APR												
06...	20	100	--	60	--	--	--	--	--	--	--	--
MAY												
04...	10	200	--	70	--	--	--	--	--	--	--	--
JUN												
06...	50	140	--	70	--	--	--	--	--	--	--	--
JUL												
12...	20	--	--	<10	--	--	--	--	--	--	--	--
AUG												
09...	<10	160	--	70	--	--	--	--	--	--	--	--
SEP												
13...	20	160	--	100	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110205, 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 except for the period of no gage-height record, which are poor.

AVERAGE DISCHARGE.--23 years, 287 ft^3/s (8.13 m^3/s), 20.84 in/yr (529 mm/yr), 207,900 acre-ft/yr (256 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 (110 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)
Mar. 4	0315	5,190	147	12.51	3.813	Sept. 25	0330	9,800	278	17.64	5.377
Mar. 28	1615	*13,000	368	20.46	6.236	Sept. 29	1915	5,200	147	12.53	3.819

No flow Oct. 4, 17, June 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	145	78	51	201	234	615	127	4.2	90	12	2.2
2	.50	116	73	48	189	213	620	141	3.6	70	8.2	1.7
3	.10	99	67	47	190	1540	516	223	3.0	45	6.1	1.3
4	.00	84	63	48	256	3360	748	182	2.6	30	4.8	.67
5	1.9	74	59	49	254	1360	684	147	2.2	20	4.1	.91
6	4.8	64	68	52	228	888	513	125	1.9	16	3.2	1.1
7	4.3	58	119	52	199	659	419	111	1.6	10	2.6	1.2
8	2.7	52	145	50	177	512	347	99	1.4	6.9	1.2	1.1
9	1.7	48	125	52	164	420	293	90	1.3	4.9	.74	.82
10	1.2	45	119	58	154	359	252	79	1.1	3.8	.18	.58
11	3.2	43	240	57	152	377	217	69	.90	3.5	.01	.34
12	2.8	41	431	51	326	1050	194	61	.80	2.9	3.9	.34
13	1.8	39	324	57	400	672	170	55	.70	2.4	23	1.0
14	.99	39	253	145	340	511	153	46	.60	1.9	8.0	236
15	.76	39	209	373	287	417	141	41	.60	2.2	22	438
16	.36	41	176	344	243	340	125	36	.70	1.9	12	131
17	.00	41	151	283	220	290	113	36	.70	1.2	50	88
18	.21	40	135	260	202	271	122	29	.30	1.9	144	59
19	.60	39	125	213	179	231	140	27	.09	1.4	101	44
20	1.3	40	114	203	157	205	143	24	.05	1.3	57	32
21	.77	41	101	172	144	178	908	20	.03	1.2	37	28
22	.72	41	92	160	137	158	831	17	.02	2.1	26	21
23	2.7	38	88	161	208	141	577	19	.01	3.9	19	20
24	33	35	84	197	404	133	562	17	.00	18	14	2730
25	143	34	80	277	305	130	417	15	.10	8.9	10	4850
26	207	53	77	329	278	126	319	12	3.0	30	8.1	906
27	121	115	73	405	298	1500	246	10	20	31	6.6	643
28	87	108	70	405	262	11000	196	8.6	320	27	4.9	591
29	71	94	66	317	---	2930	160	7.2	210	22	4.1	3020
30	111	84	62	274	---	1240	136	6.0	130	15	4.0	1840
31	192	---	57	232	---	807	---	5.0	---	7.6	2.9	---
TOTAL	999.51	1830	3924	5422	6554	32252	10877	1884.8	711.50	483.9	600.63	15690.26
MEAN	32.2	61.0	127	175	234	1040	363	60.8	23.7	15.6	19.4	523
MAX	207	145	431	405	404	11000	908	223	320	90	144	4850
MIN	.00	34	57	47	137	126	113	5.0	.00	1.2	.01	.34
CFSM	.19	.36	.75	1.04	1.39	6.15	2.15	.36	.14	.09	.12	3.10
IN.	.22	.40	.86	1.19	1.44	7.10	2.39	.41	.16	.11	.13	3.45
AC-FT	1980	3630	7780	10750	13000	63970	21570	3740	1410	960	1190	31120

CAL YR 1976 TOTAL 94274.74 MEAN 258 MAX 5930 MIN .00 CFSM 1.53 IN 20.75 AC-FT 187000
WTR YR 1977 TOTAL 81229.60 MEAN 223 MAX 11000 MIN .00 CFSM 1.32 IN 17.88 AC-FT 161100

NOTE.--NO GAGE-HEIGHT RECORD MAY 25 TO JULY 6.

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, Hydrologic Unit 11110205, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
06...	9827	9827	73	92	7.2	20.0	45	5.3	2.2	100	--
NOV											
03...	9827	9827	238	54	7.2	13.0	30	9.7	4.1	720	16
DEC											
07...	9827	9827	305	52	6.9	5.0	25	10.1	2.5	200	--
JAN											
05...	9827	9827	176	43	7.0	4.0	5	12.0	2.5	35	10
FEB											
02...	9827	9827	815	--	--	--	--	--	--	<7	--
MAR											
07...	9827	9827	4900	34	6.2	11.0	60	8.7	2.4	--	--
APR											
06...	9827	9827	3000	40	6.5	15.0	55	8.4	2.3	--	9
MAY											
04...	9827	9827	1240	44	6.7	20.0	--	--	--	530	--
JUN											
06...	9827	9827	.00	59	7.3	31.0	55	8.0	8.0	--	--
JUL											
12...	9827	9827	73	66	7.3	35.0	60	8.5	3.9	800	--
AUG											
09...	9827	9827	.00	98	--	30.0	--	6.5	3.9	4600	--
SEP											
13...	9827	9827	34	107	7.3	27.0	30	5.1	3.5	--	--
13...	9827	9827	--	--	--	--	--	--	--	2600	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	7.0
NOV											
03...	0	--	5.0	--	1.0	3.8	1.9	23	0	19	3.0
DEC											
07...	--	--	--	--	--	--	--	--	--	--	5.0
JAN											
05...	0	--	3.0	--	4.0	3.2	1.5	13	0	11	4.0
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	11
APR											
06...	--	.7	--	1.0	--	2.5	1.7	--	--	--	2.0
MAY											
04...	--	--	--	--	--	--	--	--	--	--	3.0
JUN											
06...	--	--	--	--	--	--	--	--	--	--	5.0
JUL											
12...	--	2.0	--	2.0	--	4.5	--	--	--	--	5.0
AUG											
09...	--	--	--	--	--	--	--	--	--	--	4.0
SEP											
13...	--	--	--	--	--	--	--	--	--	--	4.0
13...	--	--	--	--	--	--	--	--	--	--	--

07261250 CADRON CREEK WEST OF CONWAY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	7.5	78	24	.10	--	--	.01	--	--	--	--	--
NOV												
03...	5.5	51	17	.40	--	--	.06	<3	<10	<3	<10	1200
DEC												
07...	5.5	45	9	<.10	--	--	.04	--	--	--	<10	220
JAN												
05...	4.5	35	9	.96	--	--	.03	<3	<10	<3	30	620
MAR												
07...	3.5	70	30	.62	--	--	.10	--	--	--	--	--
APR												
06...	4.5	47	33	.25	<.10	.10	.06	<10	<10	--	<10	1900
MAY												
04...	3.5	51	29	.21	.01	.20	.11	--	--	--	--	--
JUN												
06...	6.5	--	49	.04	.01	.12	.08	--	--	--	--	--
JUL												
12...	7.0	--	--	.23	.03	.11	.09	--	<10	<10	10	--
AUG												
09...	6.0	76	24	<.05	<.05	.09	.02	--	--	--	<10	--
SEP												
13...	6.5	--	11	--	--	.11	.08	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
03...	<10	160	<.5	<10	--	--	--	--	--	--	--	--
DEC												
07...	60	58	--	<10	--	--	--	--	--	--	--	--
JAN												
05...	<10	100	--	20	.00	.00	.00	.00	.00	.00	.00	0
MAR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
06...	10	83	--	10	--	--	--	--	--	--	--	--
MAY												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
12...	<10	--	--	<10	--	--	--	--	--	--	--	--
AUG												
09...	--	650	--	10	--	--	--	--	--	--	--	--
SEP												
13...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110203, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
06...	9827	9827	6600	541	8.3	20.0	15	8.6	2.3	60	--
NOV											
03...	9827	9827	13300	481	8.0	14.0	15	9.5	1.7	320	130
DEC											
07...	9827	9827	7700	499	8.3	7.0	5	12.1	3.0	220	--
JAN											
05...	9827	9827	9700	395	8.0	4.0	5	12.4	3.0	300	110
FEB											
02...	9827	9827	13300	316	7.9	4.0	20	14.1	3.9	160	--
MAR											
07...	9827	9827	29100	119	7.2	10.0	60	9.5	1.3	--	--
APR											
06...	9827	9827	31800	160	7.2	15.0	100	9.2	1.3	--	26
MAY											
04...	9827	9827	16400	234	7.6	21.0	--	--	--	220	--
JUN											
06...	9827	9827	62000	1340	8.2	31.0	20	8.7	3.5	210	--
JUL											
12...	9827	9827	62000	521	--	32.0	--	--	--	760	--
AUG											
09...	9827	9827	11400	574	--	31.0	--	7.8	2.2	2400	--
SEP											
13...	9827	9827	31000	601	8.0	28.0	40	7.8	2.2	550	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	38
NOV											
03...	48	--	38	--	8.0	55	4.1	100	0	82	38
DEC											
07...	--	--	--	--	--	--	--	--	--	--	36
JAN											
05...	20	--	30	--	8.0	38	3.0	110	0	90	36
FEB											
02...	--	--	--	--	--	--	--	--	--	--	25
MAR											
07...	--	--	--	--	--	--	--	--	--	--	16
APR											
06...	--	3.7	--	2.7	--	16	2.9	--	--	--	11
MAY											
04...	--	--	--	--	--	--	--	--	--	--	15
JUN											
06...	--	--	--	--	--	--	--	--	--	--	66
JUL											
12...	--	40	--	7.0	--	53	--	--	--	--	40
AUG											
09...	--	--	--	--	--	--	--	--	--	--	38
SEP											
13...	--	--	--	8.0	--	--	--	--	--	--	48

07261260 ARKANSAS RIVER AT TOAD SUCK FERRY DAM, NEAR CONWAY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	80	315	23	.15	--	--	.06	--	--	--	<10	420
NOV												
03...	76	294	28	.25	--	--	.05	<3	<10	<3	<10	660
DEC												
07...	80	292	16	<.10	--	--	.03	--	--	--	<10	210
JAN												
05...	51	225	8	<.10	--	--	.06	<3	<10	<3	30	290
FEB												
02...	44	233	12	.13	--	--	.04	--	--	--	<10	400
MAR												
07...	15	109	35	.47	--	--	.12	--	--	--	210	2300
APR												
06...	22	122	39	.19	<.10	.15	.09	<10	<10	--	170	3200
MAY												
04...	33	147	27	.21	.01	.10	.09	--	--	--	10	--
JUN												
06...	340	--	39	.27	.01	.15	.06	--	--	--	110	1800
JUL												
12...	78	--	--	.31	.01	.15	.09	--	<10	<10	50	--
AUG												
09...	96	330	23	.16	<.05	.13	.03	--	--	--	70	--
SEP												
13...	96	--	16	--	--	.06	.13	--	--	--	130	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	100	53	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV												
03...	40	66	<.5	<10	.00	.00	.00	.00	.00	.00	.00	0
DEC												
07...	100	42	--	20	--	--	--	--	--	--	--	--
JAN												
05...	40	61	--	20	--	--	--	--	--	--	--	--
FEB												
02...	170	92	--	30	--	--	--	--	--	--	--	--
MAR												
07...	20	110	--	50	--	--	--	--	--	--	--	--
APR												
06...	20	120	--	90	--	--	--	--	--	--	--	--
MAY												
04...	<10	110	--	30	--	--	--	--	--	--	--	--
JUN												
06...	20	130	--	50	--	--	--	--	--	--	--	--
JUL												
12...	20	--	--	<10	--	--	--	--	--	--	--	--
AUG												
09...	<10	120	--	<10	--	--	--	--	--	--	--	--
SEP												
13...	30	5500	--	90	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110206, 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 except for periods of no gage-height record, which are fair.

AVERAGE DISCHARGE.--38 years, 530 ft^3/s (15.0 m^3/s), 17.55 in/yr (446 mm/yr), 384,000 acre-ft/yr (473 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.--Peak discharges above base of 10,000 ft^3/s (280 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	0300	15,600	442	18.78	5.724
Mar. 28	0600	*43,700	1,238	27.82	8.480

Minimum discharge, 2.9 ft^3/s (0.082 m^3/s) Sept. 10, 11-12, 13, gage height 0.67 ft (0.204 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	126	169	59	323	541	907	147	15	31	8.2	4.4
2	3.8	99	143	55	286	451	726	130	8.9	25	6.6	4.4
3	3.6	62	124	53	320	5840	608	116	13	21	5.7	4.3
4	3.4	46	109	50	814	9360	541	104	13	18	6.3	4.1
5	3.8	36	96	48	800	2260	478	93	12	15	6.6	3.9
6	3.6	31	102	47	628	1440	419	84	14	13	6.0	3.9
7	3.3	30	122	49	509	976	357	76	19	11	5.5	3.9
8	33	25	351	50	429	714	307	71	22	11	5.0	3.8
9	36	22	310	56	368	601	268	71	26	9.7	4.8	3.6
10	28	20	249	67	326	530	235	59	27	7.8	4.4	3.4
11	22	18	273	143	307	1260	209	52	26	7.2	4.3	2.9
12	16	16	787	148	735	1340	187	45	27	6.6	4.1	2.9
13	14	15	735	133	1130	1020	168	41	29	6.3	11	5.7
14	12	13	519	787	818	850	153	39	29	6.3	17	37
15	11	13	398	1650	628	585	140	37	28	6.3	12	113
16	9.7	12	323	1210	505	495	130	34	32	6.0	33	54
17	12	11	268	874	426	416	118	31	34	5.5	16	33
18	12	10	226	648	374	360	140	28	33	5.0	11	24
19	11	11	194	578	329	299	188	26	34	4.6	7.8	19
20	12	15	169	516	283	249	263	28	36	4.6	6.6	15
21	14	16	148	354	251	217	552	28	36	5.0	5.7	13
22	19	30	133	337	226	196	2090	27	35	5.2	5.5	12
23	25	32	120	389	219	177	1080	32	33	5.0	5.2	11
24	36	36	109	574	228	166	677	27	32	5.2	5.5	11
25	51	33	99	796	263	157	495	26	45	5.7	5.5	10
26	50	35	90	748	334	143	374	24	164	16	5.5	9.3
27	188	188	82	693	883	5260	294	21	153	11	5.0	10
28	104	442	77	656	706	29700	240	27	91	7.2	4.8	13
29	54	276	71	541	---	4500	200	30	61	6.0	4.6	13
30	46	207	66	438	---	2040	169	19	41	5.5	4.6	13
31	52	---	61	374	---	1760	---	16	---	9.3	4.6	---
TOTAL	893.3	1926	6723	13121	13448	73903	12713	1589	1168.9	302.0	238.4	461.5
MEAN	28.8	64.2	217	423	480	2384	424	51.3	39.0	9.74	7.69	15.4
MAX	188	442	787	1650	1130	29700	2090	147	164	31	33	113
MIN	3.3	10	61	47	219	143	118	16	8.9	4.6	4.1	2.9
CFSM	.07	.16	.53	1.03	1.17	5.82	1.03	.13	.10	.02	.02	.04
IN.	.08	.17	.61	1.19	1.22	6.71	1.15	.14	.11	.03	.02	.04
AC-FT	1770	3820	13340	26030	26670	146600	25220	3150	2320	599	473	915

CAL YR 1976 TOTAL 46866.30 MEAN 128 MAX 4960 MIN .00 CFSM .31 IN 4.25 AC-FT 92960
WTR YR 1977 TOTAL 126487.10 MEAN 347 MAX 29700 MIN 2.9 CFSM .85 IN 11.48 AC-FT 250900

NOTE.--NO GAGE-HEIGHT RECORD MAR. 4 TO APR. 6.

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	9827	9827	12	57	7.2	22.0	15	6.6	.9	190	120	24
11...	9827	9827	--	--	--	--	--	--	--	--	--	--
19...	1028	1028	12	--	--	13.0	--	--	--	--	--	--
NOV												
02...	9827	9827	3.6	45	7.0	15.0	30	9.8	1.1	80	80	--
30...	9827	9827	12	36	6.9	11.0	35	11.6	2.2	690	--	--
DEC												
02...	1028	1028	145	--	--	5.0	--	--	--	--	--	--
JAN												
04...	9827	9827	334	40	7.1	9.0	50	13.1	2.3	20	<5	8
21...	1028	1028	352	--	--	3.0	--	--	--	--	--	--
FEB												
01...	9827	9827	84	46	7.1	10.0	30	13.7	3.4	21	<5	--
22...	1028	1028	232	--	--	8.5	--	--	--	--	--	--
MAR												
01...	9827	9827	142	45	7.0	15.0	60	11.3	2.3	70	50	--
APR												
05...	9827	9827	179	34	6.9	17.0	45	9.9	.7	--	--	7
06...	1028	1028	423	--	--	15.0	--	--	--	--	--	--
MAY												
03...	9827	9827	34	37	7.2	27.0	20	9.3	1.2	7	80	--
17...	1028	1028	32	--	--	24.5	--	--	--	--	--	--
31...	9827	9827	4.5	51	--	28.0	30	6.9	2.0	5	<5	--
JUN												
28...	1028	1028	90	--	--	27.5	--	--	--	--	--	--
JUL												
05...	9827	9827	27	105	7.4	33.0	40	8.6	2.1	180	<4	--
AUG												
02...	9827	9827	12	56	7.3	31.0	50	7.0	--	620	--	--
09...	1028	1028	4.6	--	--	33.0	--	--	--	--	--	--
SEP												
06...	9827	9827	--	59	7.4	31.0	15	7.9	2.3	320	--	--
19...	1028	1028	19	--	--	27.5	--	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
05...	0	--	3.0	--	4.0	4.0	1.3	31	--	25	3.0
11...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
02...	--	--	--	--	--	--	--	--	--	--	6.0
30...	--	--	--	--	--	--	--	--	--	--	6.0
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
04...	0	--	2.0	--	<1.0	3.5	.8	12	0	10	5.0
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
01...	--	--	--	--	--	--	--	--	--	--	8.0
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	5.0
APR											
05...	--	.8	--	.9	--	3.6	1.0	--	--	--	4.0
06...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	1.0
17...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	8.0
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	2.0	--	4.2	1.9	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	4.0
09...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	--	--	--	--	--	--	--	--	--	--	5.0
19...	--	--	--	--	--	--	--	--	--	--	--

07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT								
05...	5.0	37	8	<.10	--	--	.03	<3
11...	--	44	2	--	--	--	--	--
NOV								
02...	6.0	--	--	<.10	--	--	.01	--
30...	4.5	43	1	.12	--	--	.02	--
JAN								
04...	5.0	47	--	<.10	--	--	<.01	<3
FEB								
01...	6.0	56	7	.19	--	--	.03	--
MAR								
01...	5.5	56	6	.12	--	--	.04	--
APR								
05...	3.0	39	5	<.10	<.10	<.10	.02	<10
MAY								
03...	4.0	38	4	<.05	.01	.05	.02	--
31...	4.0	47	7	.05	.00	.07	.05	--
JUL								
05...	6.0	--	5	.05	.01	.05	.01	--
AUG								
02...	4.5	43	11	.02	.01	.07	.02	--
SEP								
06...	5.0	46	9	<.05	<.05	--	.07	--

DATE	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)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT								
05...	<10	<3	40	320	10	86	.5	20
11...	--	--	--	--	--	--	--	--
NOV								
02...	--	--	230	710	--	57	--	10
30...	--	--	70	850	--	48	--	40
JAN								
04...	<10	<3	160	630	<10	<27	--	50
FEB								
01...	--	--	60	650	--	71	--	90
MAR								
01...	--	--	<10	1000	--	83	--	20
APR								
05...	<10	--	380	930	40	66	--	70
MAY								
03...	--	--	90	1000	--	250	--	30
31...	--	--	<10	1200	--	66	--	230
JUL								
05...	<10	10	130	1200	20	98	--	30
AUG								
02...	--	--	110	900	--	85	--	30
SEP								
06...	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110206, 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, 169,420 acre ft (209 hm^3) Apr. 1, elevation, 361.64 ft (110.228 m); minimum, 28,660 acre-ft (35.3 hm^3) Oct. 18, 19, 22, 23, elevation, 341.90 ft (104.211 m).

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

341	25,460	353	89,280
345	41,020	357	122,400
349	62,200	361	162,200

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29720	30470	30780	29510	34000	34760	168630	41460	40390	39670	38140	32210
2	29650	30780	30430	29540	32490	34250	166250	42010	40260	39670	37930	32060
3	29540	30960	30180	29580	31530	49570	163640	42110	40130	39620	37510	31960
4	29470	31000	29860	29930	31030	85070	160500	42210	40050	39620	37000	31890
5	29440	31070	29680	29720	31670	92830	153440	42260	39920	40000	36540	31850
6	29260	31100	30110	30080	31890	93220	144930	42210	39670	39960	35990	31960
7	29150	31180	30040	29930	31600	88850	136360	42210	39580	39840	35520	31920
8	29050	31180	30110	30000	30640	82640	127150	42160	39500	39960	35180	31850
9	28970	31180	30540	30710	29540	74550	118060	42060	39330	39670	35010	31780
10	28830	31180	30820	30360	29120	65660	108870	42010	39240	39620	34930	31710
11	28870	31280	31000	30390	29760	57510	99380	41860	39120	39620	34930	31570
12	28900	31210	31420	30430	31070	50210	89520	41660	39070	39500	35350	31500
13	28940	31070	32240	31140	33620	43890	79640	41460	38950	39370	35310	32210
14	28900	31000	32060	31850	35900	36710	69430	41320	38860	39200	36280	32690
15	29050	30860	31570	35440	36790	32100	59150	41220	38780	39070	36240	32600
16	28970	30820	30780	38310	35990	30780	48920	41170	38860	38860	35940	32640
17	28870	30080	29930	39710	34970	30390	40640	41120	39070	38690	35560	32490
18	28800	29540	29650	39920	33830	30000	37040	41070	39070	38570	35100	32350
19	29080	29360	30080	39620	32420	30150	36540	41020	38950	38440	34590	32170
20	28870	29650	29790	39070	31210	30180	37380	41020	38860	38440	34130	31810
21	28830	29580	29650	38520	30570	30250	38060	41020	38820	38360	33620	31420
22	28800	29580	29580	38020	30390	30000	41020	40980	38650	38270	33280	31000
23	28900	29580	29470	37810	30820	29790	43690	40890	38480	38140	33110	30570
24	28940	29580	29440	37850	30290	29790	44720	40980	38400	38230	32980	30180
25	29290	29720	29510	38270	30110	29900	44680	40890	38690	38020	32900	30180
26	29290	29930	29510	38360	31570	30040	43840	40810	38860	38400	32770	30110
27	29290	29860	29510	38310	33620	40390	42800	40720	39030	38400	32640	30110
28	29580	30320	29190	38060	35100	110350	41810	40720	39290	38270	32560	30290
29	29930	30780	29440	37470	---	159460	41370	40640	39370	38060	32490	30250
30	30220	30860	29440	36490	---	165680	41220	40600	39410	37890	32380	30180
31	30360	---	29440	35350	---	168860	---	40470	---	38100	32240	---
MAX	30360	31280	32240	39920	36790	168860	168630	42260	40390	40000	38140	32690
MIN	28800	29360	29190	29510	29120	29790	36540	40470	38400	37890	32240	30110
(†)	342.38	342.52	342.12	343.66	343.60	361.59	345.04	344.87	344.62	344.31	342.91	342.33
(‡)	+530	+500	-1420	+5910	-250	+133760	-127640	-750	-1060	-1310	-5860	-2060

CAL YR 1976 MAX 56550 MIN 28800 ‡ -18550
WTR YR 1977 MAX 168860 MIN 28800 ‡ +350

† 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, Hydrologic Unit 11110206, 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).

WATER-DISCHARGE RECORDS

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.--41 years, 858 ft^3/s (24.3 m^3/s), 621,600 acre-ft/yr (766 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 then 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, 5,510 ft^3/s (156 m^3/s) Apr. 11, gage height, 9.44 ft (2.877 m); minimum daily, 2.6 ft^3/s (0.07 m^3/s) Oct. 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	21	272	42	1040	1110	1400	117	35	12	110	29
2	29	20	271	42	1030	1120	2450	118	35	12	176	29
3	30	29	269	41	1030	489	2450	117	35	12	226	22
4	30	42	269	41	909	19	3250	117	35	12	226	7.9
5	30	41	173	43	713	727	4400	117	36	17	226	7.6
6	23	40	110	51	717	2220	4720	117	36	12	224	7.9
7	13	39	110	50	852	3840	5100	117	25	12	223	11
8	9.3	38	110	50	1030	4600	5350	117	12	16	125	18
9	4.1	37	155	51	1020	4890	5280	118	12	19	49	17
10	3.7	35	269	50	627	5060	5230	117	12	21	39	17
11	3.3	35	269	50	277	4960	5330	117	12	36	31	18
12	3.0	62	269	50	197	4860	5380	117	12	36	32	19
13	2.9	124	416	50	199	4760	5280	117	12	36	31	22
14	2.9	124	738	128	199	4640	5180	95	12	36	31	22
15	3.0	124	734	277	509	3240	5070	44	12	37	31	22
16	3.2	171	733	286	1040	1520	4930	44	12	40	134	80
17	3.1	272	728	640	1050	979	4070	41	12	40	225	114
18	3.1	272	394	775	1040	605	2230	27	12	40	225	117
19	3.1	141	208	775	1030	357	615	27	12	40	225	117
20	3.0	42	209	775	952	357	209	27	12	40	222	165
21	2.9	41	209	775	599	356	206	27	12	41	222	222
22	2.7	41	209	775	343	357	281	27	12	43	103	222
23	2.7	41	209	775	346	354	379	27	12	44	43	220
24	2.8	41	147	770	346	259	379	30	12	44	32	129
25	3.4	41	110	760	346	199	619	35	12	44	31	44
26	2.7	43	110	1080	346	199	780	35	12	44	31	43
27	2.6	43	110	1080	350	168	780	35	12	83	31	44
28	2.7	71	110	1080	626	24	697	35	12	111	31	44
29	2.9	97	110	1070	---	11	371	35	12	111	31	44
30	2.9	194	90	1070	---	9.3	278	35	12	112	30	45
31	11	---	42	1050	---	167	---	36	---	112	30	---
TOTAL	272.0	2362	8162	14552	18763	52456.3	82694	2185	513	1315	3426	1919.4
MEAN	8.77	78.7	263	469	670	1692	2756	70.5	17.1	42.4	111	64.0
MAX	30	272	738	1080	1050	5060	5380	118	36	112	226	222
MIN	2.6	20	42	41	197	9.3	206	27	12	12	30	7.6
AC-FT	540	4690	16190	28860	37220	104000	164000	4330	1020	2610	6800	3810

CAL YR 1976 TOTAL 86261.0 MEAN 236 MAX 3370 MIN 2.6 AC-FT 171100
WTR YR 1977 TOTAL 188619.7 MEAN 517 MAX 5380 MIN 2.6 AC-FT 374100

07262500 FOURCHE LAFAVE RIVER NEAR NIMROD, AR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1957 to September 1960, October 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)
OCT											
04...	810	1028	56	--	--	--	--	2.2	3	--	--
04...	810	810	>50	6.6	23.5	18	8.6	--	--	20	4
27...	1028	1028	--	--	13.0	--	--	--	--	--	--
DEC											
09...	1028	1028	--	--	6.0	--	--	--	--	--	--
JAN											
19...	1028	1028	--	--	2.5	--	--	--	--	--	--
MAR											
01...	1028	1028	--	--	8.5	--	--	--	--	--	--
21...	810	1028	--	--	--	--	--	1.7	83	--	--
21...	810	810	>50	7.6	14.0	90	9.8	--	--	16	2
APR											
13...	1028	1028	--	--	17.5	--	--	--	--	--	--
MAY											
26...	1028	1028	--	--	22.5	--	--	--	--	--	--
JUL											
05...	1028	1028	--	--	29.0	--	--	--	--	--	--
AUG											
16...	810	1028	--	--	--	--	--	2.8	82800	--	--
16...	810	810	55	8.5	28.5	80	7.3	--	--	32	12
17...	1028	1028	--	--	26.0	--	--	--	--	--	--
SEP											
29...	1028	1028	--	--	24.0	--	--	--	--	--	--

DATE	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											
04...	1.3	--	4.4	4.8	.06	.16	.26	.42	.48	2.1	.04
04...	--	12	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
DEC											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
21...	1.1	--	4.7	3.7	.12	.06	.56	.62	.74	3.3	.06
21...	--	6	--	--	--	--	--	--	--	--	--
APR											
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	1.4	--	2.4	2.8	.07	.41	.27	.68	.75	3.3	.07
16...	--	30	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
29...	--	--	--	--	--	--	--	--	--	--	--

07262500 FOURCHE LAFAVE RIVER NEAR NIMROD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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											
04...	.01	290	1	0	270	750	<100	280	.0	<50	280
04...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
DEC											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
21...	.05	470	4	0	<10	1100	<100	120	.0	<50	10
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	--	--	--	--	--	--	--	--	--	--	--
JUL											
05...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	.07	220	3	0	80	2200	<100	1800	.0	<50	100
16...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
29...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110206, 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.--36 years, 289 ft^3/s (8.18 m^3/s), 18.69 in/yr (475 mm/yr), 209,400 acre-ft/yr (258 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.--Peak discharges above base of 9,000 ft^3/s (260 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 3	1600	12,400	351	11.15	3.399
Mar. 28	0445	*19,800	561	13.26	4.042

Minimum discharge, 0.22 ft^3/s (0.006 m^3/s) July 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	56	41	16	107	244	461	36	10	4.9	140	2.2
2	.80	41	32	16	95	198	258	37	8.3	4.3	65	1.8
3	.70	27	26	16	125	6200	217	44	6.3	3.8	53	1.5
4	.60	17	22	15	347	3390	345	36	5.0	3.3	69	1.2
5	.80	12	18	15	285	1400	360	44	4.3	3.1	28	1.1
6	1.1	74	26	16	207	979	278	35	3.5	2.8	23	1.0
7	2.2	30	72	18	163	528	209	28	2.8	2.3	13	.80
8	1.9	12	111	18	134	314	163	28	2.3	1.9	8.7	.70
9	1.5	7.5	90	24	114	254	134	64	1.9	2.1	6.4	.60
10	1.3	6.0	93	32	100	206	109	36	1.5	3.8	4.9	.50
11	1.3	5.4	838	34	100	193	92	26	1.2	5.1	3.9	.50
12	1.3	5.6	722	35	789	277	80	30	.90	3.8	3.3	.40
13	1.0	5.2	359	113	618	242	71	23	.70	2.6	30	2.7
14	.60	5.5	219	1160	372	175	63	18	.60	1.9	31	140
15	.50	5.4	143	951	266	142	56	14	.50	1.3	46	86
16	.50	5.2	99	581	201	116	49	11	.50	1.0	29	54
17	.40	4.9	76	356	165	100	47	9.5	1.7	.60	16	35
18	.30	4.6	62	260	142	93	63	8.3	6.0	.40	12	24
19	.50	4.4	51	189	118	86	79	7.0	5.6	.30	8.7	18
20	.70	11	44	164	97	78	476	6.4	3.6	.30	7.5	14
21	.70	34	41	129	84	69	605	5.8	2.7	.30	7.9	11
22	.70	39	39	114	77	61	327	5.2	2.1	.50	9.2	9.2
23	.70	63	37	141	107	54	206	4.6	1.7	2.0	8.3	8.0
24	1.1	29	33	302	237	50	148	4.2	1.3	2.7	7.3	7.3
25	87	21	31	338	191	48	112	8.0	1.3	2.2	6.2	7.0
26	77	109	29	286	173	47	91	9.5	4.2	2.4	5.2	6.8
27	47	126	26	275	490	2230	76	7.3	22	66	4.5	7.2
28	22	96	24	263	331	10300	65	5.6	12	71	4.3	11
29	13	73	21	209	---	2160	54	13	8.0	42	3.8	46
30	107	53	20	160	---	1180	44	12	6.0	32	3.2	33
31	71	---	19	129	---	845	---	11	---	29	2.7	---
TOTAL	446.00	982.7	3464	6375	6235	32259	5338	627.4	128.50	299.70	661.0	532.50
MEAN	14.4	32.8	112	206	223	1041	178	20.2	4.28	9.67	21.3	17.8
MAX	107	126	838	1160	789	10300	605	64	22	71	140	140
MIN	.30	4.4	18	15	77	47	44	4.2	.50	.30	2.7	.40
AC-FT	885	1950	6870	12640	12370	63990	10590	1240	255	594	1310	1060

CAL YR 1976 TOTAL 47325.40 MEAN 129 MAX 3370 MIN .00 AC-FT 93870
WTR YR 1977 TOTAL 57348.80 MEAN 157 MAX 10300 MIN .30 AC-FT 113800

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, Hydrologic Unit 11110206, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
OCT											
06...	9827	9827	71	7.1	20.0	45	5.7	2.3	480	--	--
NOV											
03...	9827	9827	--	--	--	--	--	--	--	--	--
03...	9827	9827	72	7.3	13.0	25	7.6	1.9	--	24	2
03...	9827	9827	--	--	--	--	--	--	840	--	--
DEC											
07...	9827	9827	52	7.1	6.0	55	10.4	2.0	--	--	--
07...	9827	9827	--	--	--	--	--	--	150	--	--
JAN											
05...	9827	9827	49	7.1	4.0	10	12.2	3.5	50	16	2
FEB											
02...	9827	9827	42	6.9	4.0	30	12.9	2.0	380	--	--
MAR											
07...	9827	9827	32	6.6	11.0	40	10.2	2.0	--	--	--
APR											
06...	9827	9827	30	6.7	16.0	80	9.0	1.2	--	10	--
MAY											
04...	9827	9827	41	6.9	20.0	--	--	--	490	--	--
JUN											
06...	9827	9827	460	7.8	32.0	30	6.7	4.9	950	--	--
JUL											
12...	9827	9827	740	7.9	32.0	20	7.4	5.0	420	--	--
AUG											
09...	9827	9827	52	--	31.0	--	5.6	3.6	720	--	--
SEP											
13...	9827	9827	84	7.3	28.0	50	5.2	3.6	--	--	--

DATE	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
06...	--	--	--	--	--	--	--	--	--	7.0
NOV										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	5.0	--	3.0	4.8	2.6	27	0	22	3.0
03...	--	--	--	--	--	--	--	--	--	--
DEC										
07...	--	--	--	--	--	--	--	--	--	8.0
07...	--	--	--	--	--	--	--	--	--	--
JAN										
05...	--	2.0	--	2.0	3.8	1.2	17	0	14	5.0
FEB										
02...	--	--	--	--	--	--	--	--	--	8.0
MAR										
07...	--	--	--	--	--	--	--	--	--	2.0
APR										
06...	.4	--	1.0	--	2.5	1.8	--	--	--	2.0
MAY										
04...	--	--	--	--	--	--	--	--	--	2.0
JUN										
06...	--	--	--	--	--	--	--	--	--	31
JUL										
12...	32	--	8.0	--	93	--	--	--	--	43
AUG										
09...	--	--	--	--	--	--	--	--	--	3.0
SEP										
13...	--	--	--	--	--	--	--	--	--	4.0

07263150 FOURCHE LAFAVE RIVER NEAR BIGELOW, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	12	60	34	<.10	--	--	.02	--	--	--	10	1400
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
03...	8.5	59	11	<.10	--	--	.03	<3	30	<3	<10	1100
DEC												
07...	8.0	53	12	.11	--	--	.02	--	--	--	50	240
JAN												
05...	5.5	39	4	.14	--	--	.04	<3	<10	<3	30	540
FEB												
02...	5.0	47	8	.14	--	--	.02	--	--	--	<10	600
MAR												
07...	4.5	67	43	.26	--	--	.09	--	--	--	210	3100
APR												
06...	3.5	52	48	<.10	<.10	.12	.08	<10	<10	--	140	2800
MAY												
04...	2.0	47	29	.06	.01	.05	.09	--	--	--	110	2400
JUN												
06...	80	--	24	.16	.01	.11	.02	--	--	--	<10	1600
JUL												
12...	140	--	--	--	.01	.11	.11	--	<10	<10	20	--
AUG												
09...	5.5	51	48	.09	<.05	.14	.04	--	--	--	<10	--
SEP												
13...	6.5	--	53	--	--	.28	.16	--	--	--	10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	10	380	--	20	--	--	--	--	--	--	--	--
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	0
03...	30	110	<.5	<10	.00	.00	.00	.00	.00	.00	.00	0
DEC												
07...	<10	<27	--	50	--	--	--	--	--	--	--	--
JAN												
05...	180	93	--	10	.00	.00	.00	.00	.00	.00	.00	0
FEB												
02...	60	61	--	70	--	--	--	--	--	--	--	--
MAR												
07...	60	140	--	90	--	--	--	--	--	--	--	--
APR												
06...	10	160	--	30	--	--	--	--	--	--	--	--
MAY												
04...	20	200	--	80	--	--	--	--	--	--	--	--
JUN												
06...	20	220	--	20	--	--	--	--	--	--	--	--
JUL												
12...	<10	--	--	<10	--	--	--	--	--	--	--	--
AUG												
09...	<10	380	--	20	--	--	--	--	--	--	--	--
SEP												
13...	<10	450	--	80	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11110207, 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.--One discharge measurement furnished by Corps of Engineers.

AVERAGE DISCHARGE.--50 years, 41,080 ft^3/s (1,160 m^3/s), 29,760,000 acre-ft/yr (36,700 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, 210,000 ft^3/s (5,950 m^3/s) Mar. 29, tailwater elevation, 247.99 ft (75.587 m); minimum daily, 1,450 ft^3/s (41.1 m^3/s) Nov. 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8840	8180	13800	2900	18800	12800	93700	5370	50600	76400	2630	30700
2	3120	7550	3810	2870	14900	18500	70600	16600	55500	77200	5840	30400
3	2940	7670	5690	2470	7150	36500	57200	16400	57100	78000	7700	39700
4	2880	9970	3240	5820	9910	56300	34800	15600	46400	77500	6970	38800
5	9090	6260	3940	10400	10100	56600	47000	22000	50700	77700	7960	24000
6	7010	2710	5850	9250	4190	34100	44700	23600	58400	78800	2680	22700
7	2810	3420	8850	8640	6460	28600	43600	3750	57800	78800	7270	30500
8	5060	2490	13800	3410	14000	35500	37200	4380	45200	78700	12400	23800
9	7800	4340	15300	7150	5480	26100	31000	14600	44800	78600	17100	30100
10	3360	9430	6910	15500	4190	26400	31700	8980	44400	78500	15600	37600
11	2880	4110	13000	17100	2990	30800	29500	3240	41100	78700	8950	39100
12	7850	6950	11500	12600	8260	34800	28300	2030	24800	75000	1610	30800
13	13300	2500	15500	10300	9960	37900	28900	1880	31800	48900	2260	32300
14	7100	4440	18800	10800	11900	34300	27300	1930	17400	42500	2730	33700
15	3820	3370	13500	6130	18400	38400	28400	2030	16700	40800	1650	31000
16	3580	7430	9390	7070	19800	26300	26200	5260	11800	43500	12700	38000
17	4160	6370	10200	20300	10600	18600	18100	5100	7110	32300	16200	43500
18	6270	3460	5180	24100	8990	19600	27000	7690	17600	17800	39700	37300
19	14000	3270	6470	12300	10300	15900	22800	14000	10800	27500	36400	44600
20	10900	4710	3750	6340	5330	6310	17400	9900	13200	26700	33700	37200
21	13800	2630	6510	3670	7900	20400	20600	7550	18600	17000	17100	31200
22	13200	5620	8500	3740	5720	14500	20500	8410	35100	25400	15500	28000
23	5620	7760	7400	8130	16100	6580	14200	18000	44500	28400	29100	28500
24	5650	8510	2930	14600	16100	8600	12800	35800	38600	25900	33000	28500
25	5600	4070	4870	13600	20600	16500	15500	41100	44200	20200	27900	32800
26	5600	3870	2190	12600	15800	4360	14900	47100	50800	15600	26200	38300
27	7980	2520	1910	18000	23400	25300	12800	47300	67200	19200	24900	36800
28	8360	1450	2930	18600	13000	123000	15000	46200	82400	37200	17200	34400
29	7810	5890	3130	14700	---	203000	12700	39800	81600	30900	17000	38300
30	3350	12000	5830	9530	---	183000	4000	47000	78700	8850	30500	42800
31	3200	---	2890	15700	---	128000	---	49800	---	2460	31400	---
TOTAL	206940	162950	237570	328320	320330	1327550	888400	572400	1244910	1445010	511850	1015400
MEAN	6675	5432	7664	10590	11440	42820	29610	18460	41500	46610	16510	33850
MAX	14000	12000	18800	24100	23400	203000	93700	49800	82400	78800	39700	44600
MIN	2810	1450	1910	2470	2990	4360	4000	1880	7110	2460	1610	22700
AC-FT	410500	323200	471200	651200	635400	2633000	1762000	1135000	2469000	2866000	1015000	2014000

CAL YR 1976 TOTAL 8666350 MEAN 23680 MAX 144000 MIN 1160 AC-FT 17190000
WTR YR 1977 TOTAL 8261630 MEAN 22630 MAX 203000 MIN 1450 AC-FT 16390000

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 current year.

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 CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 630 mg/L Mar. 29; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum daily 345,000 tons (313,000 tonnes) Mar. 29; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
13...	9827	9827	13300	507	8.3	21.0	20	8.8	1.6	10	--
NOV											
10...	9827	9827	7160	506	8.3	13.0	10	10.3	1.5	160	--
DEC											
09...	9827	9827	15900	475	8.2	8.0	5	11.5	2.9	70	--
FEB											
01...	9827	9827	13100	244	7.6	4.0	20	13.4	3.3	100	<5
02...	9827	9827	--	--	--	--	--	--	--	44	--
MAR											
01...	9827	9827	12900	330	8.0	11.0	15	11.9	3.1	73	<5
APR											
05...	9827	9827	49500	159	7.4	15.0	100	9.1	1.7	--	--
MAY											
04...	9827	9827	10000	220	7.6	23.0	40	8.2	2.7	200	60
JUN											
06...	9827	9827	--	--	--	--	--	--	--	120	--
07...	9827	9827	55500	1240	8.2	27.0	25	7.7	1.3	--	--
JUL											
06...	9827	9827	--	--	--	--	--	--	--	110	--
07...	9827	9827	78900	--	--	--	--	--	--	--	--
AUG											
03...	9827	9827	--	--	--	--	--	--	--	1400	--
04...	9827	9827	6200	547	8.2	27.0	25	7.4	1.4	--	--
31...	9827	9827	--	--	--	--	--	--	--	67	--
SEP											
01...	9827	9827	30800	545	8.1	30.0	15	7.3	1.1	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
13...	170	55	--	48	--	12	56	4.2	140	115	45
NOV											
10...	--	--	--	--	--	--	--	--	--	--	44
DEC											
09...	--	--	--	--	--	--	--	--	--	--	34
FEB											
01...	--	--	--	--	--	--	--	--	--	--	19
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	25
APR											
05...	24	--	2.9	--	2.6	--	14	2.7	--	--	11
MAY											
04...	--	--	--	--	--	--	--	--	--	--	13
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	67
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	36	--	7.0	--	--	--	--	--	--
AUG											
03...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	38
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	--	--	--	--	--	--	--	--	--	--	35

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	79	321	8	.19	--	--	.06	<3	<10	<3	30	380
NOV												
10...	76	286	23	.10	--	--	.05	--	--	--	20	290
DEC												
09...	74	282	11	<.10	--	--	.06	--	--	--	<10	<20
FEB												
01...	32	150	14	.14	--	--	.04	--	--	--	30	730
MAR												
01...	45	198	19	<.10	--	--	.06	--	--	--	<10	620
APR												
05...	21	121	30	.14	<.10	.15	.08	<3	<10	<3	<10	3300
MAY												
04...	33	145	23	.11	.02	.15	.09	--	--	<3	--	2000
JUN												
07...	310	741	35	--	.01	.08	.05	--	--	--	<10	1700
JUL												
07...	--	--	--	.24	.01	.04	--	--	<10	<10	<10	2600
AUG												
04...	88	323	16	.20	.01	--	.06	--	--	--	<10	<30
SEP												
01...	86	333	16	.27	<.05	<.05	.11	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	70	74	<.5	<10	--	--	--	--	--	--	--	--
NOV												
10...	20	65	--	30	.00	.00	.00	.00	.00	.00	.00	0
DEC												
09...	30	41	--	<10	--	--	--	--	--	--	--	--
FEB												
01...	30	<27	--	50	--	--	--	--	--	--	--	--
MAR												
01...	30	78	--	10	--	--	--	--	--	--	--	--
APR												
05...	40	140	--	<10	--	--	--	--	--	--	--	--
MAY												
04...	<10	83	--	<10	--	--	--	--	--	--	--	--
JUN												
07...	<10	39	--	30	--	--	--	--	--	--	--	--
JUL												
07...	10	170	--	<10	--	--	--	--	--	--	--	--
AUG												
04...	60	37	--	--	--	--	--	--	--	--	--	--
SEP												
01...	--	--	--	--	--	--	--	--	--	--	--	--

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--Continued

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

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	13100	10	354	5060	0	.00	6860	0	.00
2	11800	10	319	4130	0	.00	16300	10	440
3	5190	0	.00	2830	0	.00	10200	10	275
4	5100	0	.00	8950	10	242	3500	0	.00
5	9530	10	257	11400	10	308	10400	10	281
6	6210	0	.00	11400	10	308	30900	20	1670
7	11500	10	310	11500	10	310	40500	30	3280
8	9440	10	255	7850	0	.00	42500	30	3440
9	10100	10	273	9930	10	268	29900	20	1610
10	10100	10	273	5810	0	.00	19300	10	521
11	3970	0	.00	9330	10	252	13900	10	375
12	3380	0	.00	11800	10	319	13200	10	356
13	15800	10	427	16700	10	451	10100	10	273
14	18300	10	494	13000	10	351	4250	0	.00
15	15200	10	410	5170	0	.00	21100	10	570
16	15500	10	418	2980	0	.00	26900	20	1450
17	8150	10	220	2970	0	.00	20500	10	553
18	2940	0	.00	3370	0	.00	26900	20	1450
19	5300	0	.00	12200	10	329	26200	20	1410
20	7160	0	.00	13100	10	354	19100	10	516
21	8770	10	237	15000	10	405	7090	0	.00
22	10500	10	283	7690	0	.00	7290	0	.00
23	8450	10	228	3560	0	.00	22000	10	594
24	10100	10	273	6000	0	.00	6820	0	.00
25	13300	10	359	16800	10	454	2890	0	.00
26	6450	0	.00	19000	10	513	4690	0	.00
27	4880	0	.00	6820	0	.00	4690	0	.00
28	8390	10	227	6900	0	.00	6100	0	.00
29	7540	0	.00	5510	0	.00	39900	30	3230
30	8760	10	237	4580	0	.00	53400	50	7210
31	4970	0	.00	---	---	---	42900	30	3470
TOTAL	279880	---	5854.00	261340	---	4864.00	590280	---	32974.00

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)
		JANUARY			FEBRUARY			MARCH	
1	31600	20	1710	7640	0	.00	9850	10	266
2	29900	20	1610	6440	0	.00	12300	10	332
3	28000	20	1510	16300	10	440	13000	10	351
4	21900	10	591	12500	10	337	23000	10	621
5	27500	20	1490	7240	0	.00	15300	10	413
6	34300	20	1850	6590	0	.00	10100	10	273
7	27700	20	1500	6460	0	.00	5810	0	.00
8	30600	20	1650	4300	0	.00	15000	10	405
9	29300	20	1580	6540	0	.00	48100	40	5190
10	26300	20	1420	10800	10	292	71500	110	21200
11	28700	20	1550	4310	0	.00	70100	100	18900
12	30500	20	1650	9340	10	252	63800	80	13800
13	19200	10	518	5800	0	.00	58800	60	9530
14	3260	0	.00	4590	0	.00	43900	30	3560
15	5120	0	.00	3020	0	.00	46600	40	5030
16	13200	10	356	3980	0	.00	41900	30	3390
17	6920	0	.00	12100	10	327	37100	30	3010
18	3210	0	.00	33200	20	1790	27500	20	1490
19	3240	0	.00	38700	30	3130	20000	10	540
20	14900	10	402	24800	20	1340	35100	20	1900
21	13600	10	367	16700	10	451	38800	30	3140
22	3460	0	.00	16200	10	437	34800	20	1880
23	5900	0	.00	18700	10	505	25700	20	1390
24	5190	0	.00	17400	10	470	18000	10	486
25	8110	10	219	16700	10	451	24700	20	1330
26	10600	10	286	11400	10	308	22600	10	610
27	16200	10	437	9920	10	268	14600	10	394
28	16500	10	445	6980	0	.00	3380	0	.00
29	16500	10	445	7340	0	.00	18500	10	499
30	13600	10	367	---	---	---	27000	20	1460
31	5490	0	.00	---	---	---	27100	20	1460
TOTAL	530500	---	21953.00	345990	---	10798.00	923940	---	102850.0

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--Continued

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

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)
		APRIL			MAY			JUNE	
1	22400	10	605	59400	70	11200	51200	40	5530
2	25600	20	1380	63200	80	13700	55900	60	9060
3	19200	10	518	54900	50	7410	62800	80	13600
4	21700	10	586	52400	50	7070	54800	50	7400
5	17100	10	462	47400	40	5120	47400	40	5120
6	10100	10	273	41000	30	3320	48800	40	5270
7	20300	10	548	43500	30	3520	39600	30	3210
8	20200	10	545	44700	30	3620	29200	20	1580
9	12600	10	340	49700	40	5370	27000	20	1460
10	6500	0	.00	49800	40	5380	27200	20	1470
11	4790	0	.00	43100	30	3490	35700	20	1930
12	9650	10	261	39700	30	3220	24400	20	1320
13	14600	10	394	48400	40	5230	10700	10	289
14	13800	10	373	59700	70	11300	9110	10	246
15	15100	10	408	72300	110	21500	22100	10	597
16	13000	10	351	67500	90	16400	18200	10	491
17	6180	0	.00	56700	60	9190	18500	10	499
18	3800	0	.00	49900	40	5390	21600	10	583
19	19300	10	521	49500	40	5350	16200	10	437
20	49800	40	5380	55200	50	7450	7720	0	.00
21	93600	190	48000	47500	40	5130	16000	10	432
22	134000	350	127000.0	42300	30	3430	16500	10	445
23	144000	390	152000.0	40500	30	3280	20500	10	553
24	141000	380	145000.0	42900	30	3470	28900	20	1560
25	110000	250	74300	37300	30	3020	58600	60	9490
26	77100	130	27100	35900	20	1940	57400	60	9300
27	64900	80	14000	44400	30	3600	62300	80	13500
28	63700	80	13800	41900	30	3390	52800	50	7130
29	54100	50	7300	42600	30	3450	40800	30	3300
30	54800	50	7400	47400	40	5120	35400	20	1910
31	---	---	---	50800	40	5490	---	---	---
TOTAL	1262920	---	628845.0	1521500	---	195550	1017330	---	107712.0

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)
		JULY			AUGUST			SEPTEMBER	
1	25700	20	1390	18900	10	510	11700	10	316
2	25100	20	1360	12400	10	335	6940	0	.00
3	25100	20	1360	19100	10	516	5040	0	.00
4	44400	30	3600	26400	20	1430	1160	0	.00
5	52800	50	7130	23000	10	621	4720	0	.00
6	68900	100	18600	15200	10	410	2430	0	.00
7	88500	170	40600	13200	10	356	1510	0	.00
8	92300	180	44900	3810	0	.00	7430	0	.00
9	92500	180	45000	8360	10	226	8780	10	237
10	94800	190	48600	16700	10	451	9270	10	250
11	95700	200	51700	11100	10	300	1770	0	.00
12	93800	190	48100	7620	0	.00	3040	0	.00
13	95600	200	51600	10300	10	278	2530	0	.00
14	94400	190	48400	6120	0	.00	3060	0	.00
15	92300	180	44900	2910	0	.00	7590	0	.00
16	94100	190	48300	8720	10	235	12600	10	340
17	93900	190	48200	14600	10	394	9530	10	257
18	90500	180	44000	15400	10	416	5210	0	.00
19	68600	100	18500	14500	10	391	5700	0	.00
20	58600	60	9490	11200	10	302	9190	10	248
21	57100	60	9250	3690	0	.00	12900	10	348
22	51600	50	6970	3210	0	.00	10900	10	294
23	43600	30	3530	6680	0	.00	4220	0	.00
24	42600	30	3450	12400	10	335	2350	0	.00
25	42200	30	3420	12400	10	335	4290	0	.00
26	42000	30	3400	12400	10	335	2770	0	.00
27	36100	20	1950	13000	10	351	3650	0	.00
28	35900	20	1940	9110	10	246	5040	0	.00
29	33500	20	1810	3650	0	.00	5790	0	.00
30	31100	20	1680	5160	0	.00	10500	10	283
31	24200	20	1310	6360	0	.00	---	---	---
TOTAL	1927500	---	664440	347600	---	8773.00	181610	---	2573.00

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--Continued

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

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	8840	10	239	8180	10	221	13800	10	373
2	3120	0	.00	7550	0	.00	3810	0	.00
3	2940	0	.00	7670	0	.00	5690	0	.00
4	2880	0	.00	9970	10	269	3240	0	.00
5	9090	10	245	6260	0	.00	3940	0	.00
6	7010	0	.00	2710	0	.00	5850	0	.00
7	2810	0	.00	3420	0	.00	8850	10	239
8	5060	0	.00	2490	0	.00	13800	10	373
9	7800	0	.00	4340	0	.00	15300	10	413
10	3360	0	.00	9430	10	255	6910	0	.00
11	2880	0	.00	4110	0	.00	13000	10	351
12	7850	0	.00	6950	0	.00	11500	10	310
13	13300	10	359	2500	0	.00	15500	10	418
14	7100	0	.00	4440	0	.00	18800	10	508
15	3820	0	.00	3370	0	.00	13500	10	364
16	3580	0	.00	7430	0	.00	9390	10	254
17	4160	0	.00	6370	0	.00	10200	10	275
18	6270	0	.00	3460	0	.00	5180	0	.00
19	14000	10	378	3270	0	.00	6470	0	.00
20	10900	10	294	4710	0	.00	3750	0	.00
21	13800	10	373	2630	0	.00	6510	0	.00
22	13200	10	356	5620	0	.00	8500	10	229
23	5620	0	.00	7760	0	.00	7400	0	.00
24	5650	0	.00	8510	10	230	2930	0	.00
25	5600	0	.00	4070	0	.00	4870	0	.00
26	5600	0	.00	3870	0	.00	2190	0	.00
27	7980	0	.00	2520	0	.00	1910	0	.00
28	8360	10	226	1450	0	.00	2930	0	.00
29	7810	0	.00	5890	0	.00	3130	0	.00
30	3350	0	.00	12000	10	324	5830	0	.00
31	3200	0	.00	---	---	---	2890	0	.00
TOTAL	206940	---	2470.00	162950	---	1299.00	237570	---	4107.00

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)
		JANUARY			FEBRUARY			MARCH	
1	2900	0	.00	18800	10	508	12800	10	346
2	2870	0	.00	14900	10	402	18500	10	499
3	2470	0	.00	7150	0	.00	36500	20	1970
4	5820	0	.00	9910	10	268	56300	60	9120
5	10400	10	281	10100	10	273	56600	20	3060
6	9250	10	250	4190	0	.00	34100	20	1840
7	8640	10	233	6460	0	.00	28600	20	1540
8	3410	0	.00	14000	10	378	35500	20	1920
9	7150	0	.00	5480	0	.00	26100	20	1410
10	15500	10	418	4190	0	.00	26400	20	1430
11	17100	10	462	2990	0	.00	30800	20	1660
12	12600	10	340	8260	10	223	34800	20	1880
13	10300	10	278	9960	10	269	37900	30	3070
14	10800	10	292	11900	10	321	34300	20	1850
15	6130	0	.00	18400	10	497	38400	30	3110
16	7070	0	.00	19800	10	535	26300	20	1420
17	20300	10	548	10600	10	286	18600	10	502
18	24100	20	1300	8990	10	243	19600	10	529
19	12300	10	332	10300	10	278	15900	10	429
20	6340	0	.00	5330	0	.00	6310	0	.00
21	3670	0	.00	7900	0	.00	20400	10	551
22	3740	0	.00	5720	0	.00	14500	10	391
23	8130	10	220	16100	10	435	6580	0	.00
24	14600	10	394	16100	10	435	8600	10	232
25	13600	10	367	20600	10	556	16500	10	445
26	12600	10	340	15800	10	427	4360	0	.00
27	18000	10	486	23400	10	632	25300	20	1370
28	18600	10	502	13000	10	351	123000	310	103000.0
29	14700	10	397	---	---	---	203000	630	345000.0
30	9530	10	257	---	---	---	183000	550	272000.0
31	15700	10	424	---	---	---	128000	330	114000.0
TOTAL	328320	---	8121.00	320330	---	7317.00	1327550	---	874574.0

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR--Continued

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

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)
		APRIL			MAY			JUNE	
1	93700	190	48100	5370	0	.00	50600	40	5460
2	70600	100	19100	16600	10	448	55500	60	8990
3	57200	60	9270	16400	10	443	57100	60	9250
4	34800	20	1880	15600	10	421	46400	40	5010
5	47000	40	5080	22000	10	594	50700	40	5480
6	44700	30	3620	23600	20	1270	58400	60	9460
7	43600	30	3530	3750	0	.00	57800	60	9360
8	37200	30	3010	4380	0	.00	45200	30	3660
9	31000	20	1670	14600	10	394	44800	30	3630
10	31700	20	1710	8980	10	242	44400	30	3600
11	29500	20	1590	3240	0	.00	41100	30	3330
12	28300	20	1530	2030	0	.00	24800	20	1340
13	28900	20	1560	1880	0	.00	31800	20	1720
14	27300	20	1470	1930	0	.00	17400	10	470
15	28400	20	1530	2030	0	.00	16700	10	451
16	26200	20	1410	5260	0	.00	11800	10	319
17	18100	10	489	5100	0	.00	7110	0	.00
18	27000	20	1460	7690	0	.00	17600	10	475
19	22800	10	616	14000	10	378	10800	10	292
20	17400	10	470	9900	10	267	13200	10	356
21	20600	10	556	7550	0	.00	18600	10	502
22	20500	10	553	8410	10	227	35100	20	1900
23	14200	10	383	18000	10	486	44500	30	3600
24	12800	10	346	35800	20	1930	38600	30	3130
25	15500	10	418	41100	30	3330	44200	30	3580
26	14900	10	402	47100	40	5090	50800	40	5490
27	12800	10	346	47300	40	5110	67200	90	16300
28	15000	10	405	46200	40	4990	82400	150	33400
29	12700	10	343	39800	30	3220	81600	140	30800
30	4000	0	.00	47000	40	5080	78700	130	27600
31	---	---	---	49800	40	5380	---	---	---
TOTAL	888400	---	112847.0	572400	---	39300.00	1244910	---	198955.0

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)
		JULY			AUGUST			SEPTEMBER	
1	76400	120	24800	2630	0	.00	30700	20	1660
2	77200	130	27100	5840	0	.00	30400	20	1640
3	78000	130	27400	7700	0	.00	39700	30	3220
4	77500	130	27200	6970	0	.00	38800	30	3140
5	77700	130	27300	7960	0	.00	24000	20	1300
6	78800	130	27700	2680	0	.00	22700	10	613
7	78800	130	27700	7270	0	.00	30500	20	1650
8	78700	130	27600	12400	10	335	23800	20	1290
9	78600	130	27600	17100	10	462	30100	20	1630
10	78500	130	27600	15600	10	421	37600	30	3050
11	78700	130	27600	8950	10	242	39100	30	3170
12	75000	120	24300	1610	0	.00	30800	20	1660
13	48900	40	5280	2260	0	.00	32300	20	1740
14	42500	30	3440	2730	0	.00	33700	20	1820
15	40800	30	3300	1650	0	.00	31000	20	1670
16	43500	30	3520	12700	10	343	38000	30	3080
17	32300	20	1740	16200	10	437	43500	30	3520
18	17800	10	481	39700	30	3220	37300	30	3020
19	27500	20	1490	36400	20	1970	44600	30	3610
20	26700	20	1440	33700	20	1820	37200	30	3010
21	17000	10	459	17100	10	462	31200	20	1680
22	25400	20	1370	15500	10	418	28000	20	1510
23	28400	20	1530	29100	20	1570	28500	20	1540
24	25900	20	1400	33000	20	1780	28500	20	1540
25	20200	10	545	27900	20	1510	32800	20	1770
26	15600	10	421	26200	20	1410	38300	30	3100
27	19200	10	518	24900	20	1340	36800	30	2980
28	37200	30	3010	17200	10	464	34400	20	1860
29	30900	20	1670	17000	10	459	38300	30	3100
30	8850	10	239	30500	20	1650	42800	30	3470
31	2460	0	.00	31400	20	1700	---	---	---
TOTAL	1445010	---	355753.0	511850	---	22013.00	1015400	---	68043

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, Hydrologic Unit 11110207, 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 mi² (409,966 km²), of which 22,241 mi² (57,604 km²) 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.--Discharge figures are for station 07263450, 16.8 mi (26.0 km) upstream.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,040 micromhos July 1; minimum daily, 156 micromhos Apr. 1.
WATER TEMPERATURES: Maximum daily, 31.5°C July 14-19, 22-26; minimum daily, 2.5°C on several days in January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
NOV												
08...	1028	1028	2480	550	8.0	12.0	9.0	86	520	<4	130	36
DEC												
03...	1028	1028	1950	538	7.9	7.0	11.0	94	1100	B16	130	35
JAN												
03...	1028	1028	2980	394	7.5	3.5	13.1	102	1300	B20	100	18
FEB												
14...	1028	1028	7830	265	6.5	7.0	12.7	93	B1500	260	74	15
28...	1028	1028	15500	320	6.1	9.5	11.8	106	660	B76	81	21
MAR												
28...	1028	1028	113000	205	7.4	15.0	9.0	92	540	340	51	14
APR												
25...	1028	1028	14800	241	7.5	20.0	7.6	86	B2300	840	54	14
MAY												
24...	1028	1028	4030	302	7.5	24.5	7.4	90	B2600	B40	71	16
JUN												
20...	1028	1028	8950	941	7.6	28.0	6.8	87	1700	B24	150	55
JUL												
18...	1028	1028	16600	516	7.0	29.0	7.4	97	1700	B16	130	30
AUG												
16...	1028	1028	--	--	--	--	--	--	--	--	--	--
16...	1028	1028	3470	576	8.2	29.5	9.7	128	533	<4	130	35
SEP												
23...	1028	1028	28500	703	7.7	23.0	8.4	100	B5300	370	140	45

DATE	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
NOV											
08...	38	8.0	54	47	2.1	3.7	112	0	92	1.8	37
DEC											
03...	38	8.2	53	46	2.0	3.5	114	0	94	2.3	36
JAN											
03...	30	6.3	36	43	1.6	3.0	101	0	83	5.1	27
FEB											
14...	21	5.2	24	41	1.2	2.2	72	0	59	36	22
28...	23	5.7	29	43	1.4	2.2	73	0	60	93	26
MAR											
28...	14	4.0	18	42	1.1	1.8	46	0	38	2.9	21
APR											
25...	15	3.9	23	47	1.4	2.1	48	0	39	2.4	18
MAY											
24...	21	4.4	30	47	1.6	2.5	67	0	55	3.4	21
JUN											
20...	45	10	130	64	4.6	4.1	120	0	98	4.8	52
JUL											
18...	40	7.0	53	46	2.0	3.8	120	0	98	19	37
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	41	7.6	64	50	2.4	4.2	120	0	98	1.2	38
SEP											
23...	41	8.0	85	57	3.2	4.6	110	0	90	3.5	41

B PLATE COUNT OUTSIDE IDEAL RANGE.

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	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)
NOV											
08...	84	.2	2.9	291	283	.40	1950	.07	.85	.92	4.1
DEC											
03...	81	.2	2.2	293	278	.40	1540	.11	.87	.98	4.3
JAN											
03...	54	.2	3.1	215	209	.29	1730	.15	.65	.80	3.5
FEB											
14...	35	.1	1.6	152	147	.21	3210	.14	.46	.60	2.7
28...	44	.1	.6	184	167	.25	7700	.00	.21	.21	.93
MAR											
28...	27	.2	3.1	117	112	.16	35700	.18	.74	.92	4.1
APR											
25...	31	.2	4.5	138	121	.19	5510	.18	.61	.79	3.5
MAY											
24...	41	.1	3.7	168	157	.23	1830	.21	.27	.48	2.1
JUN											
20...	220	.3	3.7	494	524	.67	11900	.12	.68	.80	3.5
JUL											
18...	75	.2	3.7	292	279	.40	13100	.29	.54	.83	3.7
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	91	.2	1.3	310	306	.42	2900	.05	3.9	4.0	17
SEP											
23...	130	.3	7.0	372	371	.51	28600	.59	--	--	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	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)
NOV											
08...	.09	--	--	--	--	--	--	--	--	--	--
DEC											
03...	.09	--	--	--	--	--	--	--	--	--	--
JAN											
03...	.08	1	1	0	<10	<10	0	0	0	0	<50
FEB											
14...	.09	--	--	--	--	--	--	--	--	--	--
28...	.02	--	--	--	--	--	--	--	--	--	--
MAR											
28...	.24	--	--	--	--	--	--	--	--	--	--
APR											
25...	.14	1	--	1	<10	--	0	<10	<10	0	<50
MAY											
24...	.13	--	--	--	--	--	--	--	--	--	--
JUN											
20...	.13	--	--	--	--	--	--	--	--	--	--
JUL											
18...	.11	2	--	1	<10	<9	1	0	--	0	<50
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.09	--	--	--	--	--	--	--	--	--	--
SEP											
23...	.15	--	--	--	--	--	--	--	--	--	--

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
NOV												
08...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
03...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
03...	<50	0	10	5	5	190	20	<100	<100	0	50	30
FEB												
14...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
25...	--	0	10	--	1	1100	90	<100	--	0	100	100
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
18...	<50	0	30	23	7	750	10	<100	<100	0	60	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
23...	--	--	--	--	--	--	--	--	--	--	--	--

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)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC											
03...	--	--	--	--	--	--	--	--	--	--	--
JAN											
03...	20	.0	.0	.0	0	0	0	10	0	10	--
FEB											
14...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
MAR											
28...	--	--	--	--	--	--	--	--	--	--	<1.5
APR											
25...	0	.0	--	.0	1	1	0	10	0	10	--
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
18...	20	.0	.0	.0	0	0	0	10	0	10	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
SEP											
23...	--	--	--	--	--	--	--	--	--	--	--

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	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)
NOV											
08...	--	--	--	--	--	--	--	--	13	87	91
DEC											
03...	--	--	--	--	--	--	--	--	13	68	84
JAN											
03...	--	--	--	--	--	--	--	3.6	5	40	83
FEB											
14...	--	--	--	--	--	--	--	--	15	317	90
28...	--	--	--	--	--	--	--	--	13	544	98
MAR											
28...	6.1	3.2	5.0	2.6	4.0	.08	.01	--	367	112000	45
APR											
25...	--	--	--	--	--	--	--	5.8	25	999	96
MAY											
24...	--	--	--	--	--	--	--	--	46	501	96
JUN											
20...	--	--	--	--	--	--	--	--	30	725	62
JUL											
18...	--	--	--	--	--	--	--	3.8	47	2110	48
AUG											
16...	--	--	--	--	--	--	--	5.4	--	--	--
SEP											
23...	--	--	--	--	--	--	--	4.1	40	3080	92

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 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	NOV 8,76 1330		DEC 3,76 1030		JAN 3,77 1400		FEB 14,77 1000		FEB 28,77 1000	
TOTAL CELLS/ML	12000		10000		16000		11000		5600	
DIVERSITY: DIVISION	0.9		1.7		1.3		1.5		1.2	
.CLASS	0.9		1.7		1.3		1.6		1.2	
..ORDER	1.0		1.8		1.7		2.1		1.6	
...FAMILY	1.2		2.1		2.3		2.4		2.1	
....GENUS	2.2		2.9		3.2		3.0		3.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....DICHOTOMOCOCCUS	--	-	480	5	--	-	--	-	270	5
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	420	3	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....ACANTHOSPHAERA	--	-	--	-	--	-	--	-	--	-
....GOLENKINIA	--	-	*	0	*	0	--	-	--	-
....MICRACTINIUM	--	-	--	-	*	0	230	2	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	210	2	--	-	1200	7	690	6	1200#	21
....CHODATELLA	--	-	--	-	110	1	140	1	--	-
....CLOSTERIOPSIS	--	-	53	1	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	430	4	4600#	29	140	1	34	1
....FRANCEIA	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	430	4	--	-	420	3	--	-	--	-
....OOCYSTIS	430	4	*	0	640	4	180	2	140	2
....SELENASTRUM	--	-	--	-	*	0	*	0	450	8
....TETRAEDRON	110	1	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	*	0	--	-	--	-	--	-
....CRUCIGENIA	--	-	160	2	850	5	--	-	--	-
....SCENEDESMUS	430	4	910	9	270	2	92	1	69	1
....TETRASTRUM	1700	14	190	2	1100	7	740	7	550	10
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	*	0	--	-	--	-
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	*	0	--	-	--	-	--	-
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	--	-	--	-
....CHLAMYDOMONAS	210	2	160	2	640	4	140	1	--	-
...PHACOTACEAE										
....PTEROMONAS	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
....SPONDYLOSIUM	--	-	--	-	*	0	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	*	0	--	-	--	-
....CYCLOTELLA	5200#	43	1300	13	*	0	2300#	21	1300#	23
....MELOSIRA	3400#	28	2500#	24	4000#	25	1500	14	690	12
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	*	0	270	5
....SYNEDRA	--	-	--	-	--	-	*	0	100	2
...NAVICULACEAE										
....DIPLONEIS	--	-	--	-	--	-	*	0	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-
....NAVICULA	--	-	--	-	*	0	*	0	69	1
...NITZSCHIACEAE										
....NITZSCHIA	--	-	53	1	640	4	410	4	270	5
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-

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 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	NOV 8,76 1330		DEC 3,76 1030		JAN 3,77 1400		FEB 14,77 1000		FEB 28,77 1000	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	--	-	430	4	--	-	--	-	--	-
....ANACYSTIS	--	-	3500#	33	530	3	370	3	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	3600#	34	210	4
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	*	0	--	-
...OSCILLATORIACEAE										
....PHORMIMIDIUM	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	110	1	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	210	2	160	1	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	*	0	*	0	--	-
....PHACUS	--	-	*	0	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	110	1	*	0	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	*	0	--	-	*	0	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	*	0	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

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 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	MAY 24,77 1030		JUN 20,77 1030		JUL 18,77 1000		AUG 16,77 1130		SEP 23,77 1230	
TOTAL CELLS/ML	2800		26000		12000		50000		3200	
DIVERSITY: DIVISION	1.7		1.1		1.4		1.4		1.4	
.CLASS	1.7		1.1		1.4		1.4		1.4	
..ORDER	1.8		1.3		2.0		1.5		2.2	
...FAMILY	2.3		0.0		2.4		1.8		2.8	
....GENUS	2.8		0.0		3.4		2.5		3.4	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....DICHOTOMOCOCCUS	--	-	--	-	--	-	--	-	--	-
...CHARACIACEAE										
....SCHROEDERIA	55	2	*	0	72	1	*	0	39	1
...COELASTRACEAE										
....COELASTRUM	--	-	610	2	190	2	1900	4	120	4
...HYDRODICTYACEAE										
....PEDIASTRUM	55	2	*	0	*	0	--	-	160	5
...MICRACTINIACEAE										
....ACANTHOSPHAERA	--	-	--	-	*	0	--	-	--	-
....GOLENKINIA	--	-	--	-	72	1	*	0	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	*	0	--	-	--	-	49	2
....CHODATELLA	--	-	--	-	--	-	--	-	--	-
....CLOSTERIOPSIS	28	1	--	-	*	0	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	96	1	--	-	78	2
....FRANCEIA	--	-	--	-	72	1	--	-	--	-
....KIRCHNERIELLA	280	10	150	1	--	-	--	-	--	-
....OOCYSTIS	--	-	1100	4	--	-	1500	3	39	1
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	620	1	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	380	1	770	7	--	-	120	4
....SCENEDESMUS	120	4	2400	9	990	8	1800	4	270	9
....TETRASTRUM	230	8	150	1	96	1	--	-	--	-
..TETRASPORALES										
...COCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	--	-	--	-
....SPHAEROCYSTIS	--	-	300	1	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CARTERIA	--	-	--	-	--	-	460	1	--	-
....CHLAMYDOMONAS	--	-	--	-	--	-	*	0	39	1
...PHACOTACEAE										
....PTEROMONAS	--	-	*	0	--	-	--	-	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	*	0	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	310	1	--	-
....SPONDYLOSIUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	780#	28	1400	5	190	2	3500	7	210	6
....MELOSIRA	120	4	--	-	1500	13	9600#	19	59	2
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	--	-	460	1	240	7
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	*	0	*	0	39	1
...NAVICULACEAE										
....DIPLONEIS	--	-	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-	*	0
....NAVICULA	--	-	--	-	*	0	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	83	3	490	2	120	1	--	-	--	-
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	*	0	--	-	*	0

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 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	MAY 24,77 1030		JUN 20,77 1030		JUL 18,77 1000		AUG 16,77 1130		SEP 23,77 1230	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCACEAE										
....AGMENELLUM	870#	31	18000#	70	770	7	23000#	45	590#	18
....ANACYSTIS	110	4	380	1	1200	10	6500	13	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	750	6	--	-	290	9
....OSCILLATORIA	--	-	--	-	870	7	--	-	860#	27
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	190	2	--	-	--	-
...OSCILLATORIACEAE										
....PHORMIMIDIUM	--	-	--	-	3500#	30	--	-	--	-
..HORMOGONALES	--	-	230	1	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	*	0	--	-	--	-
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	*	0	--	-	72	1	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	28	1	--	-	*	0	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
MAY 24	31	17500	15100	2400	1.05	0.028	2286	POLYETHYLENE STRIP
AUG. 16	29	16000	13200	2800	1.15	.036	2435	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 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	460	453	456	563	560	561	536	531	533	390	387	388
2	467	455	459	---	---	---	539	535	537	390	388	389
3	462	457	459	---	---	---	537	534	536	391	389	390
4	460	456	458	---	---	---	538	535	537	392	391	391
5	458	456	457	---	---	---	539	537	538	393	391	392
6	457	452	455	---	---	---	541	539	540	391	388	390
7	452	447	444	---	---	---	540	537	538	394	392	393
8	447	441	443	---	---	---	542	539	541	400	398	399
9	449	440	445	---	---	---	534	529	531	405	400	402
10	455	444	447	---	---	---	522	520	521	409	406	407
11	448	443	445	---	---	---	513	512	513	416	413	414
12	448	444	446	---	---	---	506	501	504	421	420	420
13	456	446	452	---	---	---	493	489	492	426	425	425
14	460	453	456	---	---	---	483	479	481	431	428	429
15	462	455	458	---	---	---	471	462	465	420	415	418
16	460	451	455	---	---	---	454	448	451	407	402	404
17	451	446	449	---	---	---	448	445	446	396	390	393
18	447	444	446	---	---	---	444	440	442	388	373	383
19	450	443	448	---	---	---	440	436	439	364	356	359
20	446	441	443	---	---	---	435	428	431	352	347	350
21	445	440	441	---	---	---	426	419	423	347	341	345
22	441	438	439	---	---	---	415	410	413	338	337	338
23	462	459	460	---	---	---	407	404	405	331	328	330
24	483	480	482	---	---	---	405	401	402	322	320	321
25	502	496	499	---	---	---	401	398	400	309	302	306
26	517	508	513	---	---	---	399	396	397	293	288	291
27	528	519	523	---	---	---	398	395	396	280	277	279
28	548	542	546	---	---	---	396	394	395	273	268	271
29	570	566	568	532	528	531	393	390	391	269	265	266
30	567	563	566	532	528	530	393	390	392	266	265	265
31	563	559	560	---	---	---	390	386	388	269	266	267
MONTH	570	438	472	563	528	541	542	386	465	431	265	362
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	270	268	269	326	324	325	159	156	157	243	233	235
2	272	270	271	318	316	318	164	163	164	231	229	230
3	274	273	273	309	291	302	170	168	169	228	224	225
4	278	275	277	283	271	276	176	174	175	225	221	222
5	284	281	283	259	248	252	179	166	174	225	220	223
6	287	285	286	236	230	233	172	168	170	222	219	220
7	289	288	289	219	216	218	187	177	183	228	226	227
8	290	289	290	205	195	200	195	192	193	233	229	231
9	296	293	294	185	181	183	200	188	194	238	235	236
10	300	297	299	172	172	172	188	183	186	239	236	237
11	296	295	296	161	158	159	184	182	183	245	239	241
12	294	290	292	165	162	164	181	178	179	249	244	246
13	287	282	284	172	167	168	179	175	177	253	249	250
14	279	276	277	187	178	182	182	178	179	249	247	248
15	275	273	274	201	193	197	184	180	182	248	245	246
16	270	268	269	210	207	209	188	184	186	251	245	247
17	265	262	264	216	214	215	191	187	189	252	249	250
18	269	260	264	223	220	222	194	190	192	251	248	250
19	283	279	281	221	218	220	196	188	192	250	246	248
20	295	292	294	220	217	218	197	188	191	252	247	249
21	309	303	306	221	216	219	201	198	200	263	260	261
22	321	317	320	221	217	219	203	197	200	277	271	274
23	335	332	334	220	215	217	225	208	219	294	285	287
24	345	341	343	217	215	216	238	230	234	323	304	313
25	352	350	351	220	215	218	242	238	240	341	330	336
26	351	346	349	216	214	215	246	239	241	368	349	358
27	343	340	341	211	206	209	244	240	242	404	378	391
28	334	331	332	201	198	199	246	239	242	431	416	424
29	---	---	---	195	172	185	247	242	244	450	441	445
30	---	---	---	177	166	172	248	239	244	477	461	469
31	---	---	---	167	160	163	---	---	---	509	489	499
MONTH	352	260	297	326	158	215	248	156	197	509	219	284

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 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	536	520	527	1040	1010	1020	---	---	---	566	558	560
2	584	547	560	1030	874	954	---	---	---	563	556	558
3	---	---	---	858	707	775	---	---	---	563	557	560
4	---	---	---	713	650	673	---	---	---	586	564	573
5	---	---	---	660	648	654	506	500	503	602	584	593
6	---	---	---	668	656	662	515	510	512	605	598	602
7	---	---	---	673	664	668	527	518	521	604	600	602
8	---	---	---	670	657	661	536	526	532	605	598	601
9	---	---	---	645	632	636	552	539	546	600	591	592
10	---	---	---	620	606	611	560	547	553	594	578	586
11	---	---	---	596	574	584	568	557	562	583	572	577
12	---	---	---	561	547	551	573	565	570	579	573	577
13	---	---	---	538	532	535	572	568	570	589	578	585
14	---	---	---	528	520	524	576	572	573	589	580	584
15	---	---	---	512	508	510	578	571	574	597	585	590
16	---	---	---	522	507	510	583	573	577	616	602	607
17	---	---	---	516	511	514	577	562	569	643	621	631
18	952	941	947	521	516	518	575	563	571	673	645	657
19	945	937	941	525	520	523	576	567	573	687	671	680
20	944	936	940	527	523	525	577	568	573	695	682	689
21	942	937	939	538	529	533	573	570	571	703	690	697
22	944	936	941	550	538	543	572	566	569	704	695	700
23	945	938	942	554	544	549	572	567	570	705	702	703
24	950	944	957	563	554	558	572	563	568	707	701	705
25	979	966	972	565	546	557	575	567	571	711	701	706
26	973	939	960	563	548	556	574	568	571	723	711	718
27	951	934	942	556	544	551	575	568	572	711	663	682
28	936	906	926	554	548	551	573	568	570	661	628	644
29	904	877	885	---	---	---	572	566	568	630	609	618
30	1000	893	938	---	---	---	573	563	567	614	593	608
31	---	---	---	---	---	---	568	560	563	---	---	---
MONTH	1000	520	888	1040	507	607	583	500	561	723	556	626

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.3	8.0	8.1	8.0	7.9	7.9	8.0	7.9	8.0	7.4	7.3	7.3
2	8.7	8.0	8.3	---	---	---	7.9	7.9	7.9	7.3	7.2	7.3
3	8.7	8.2	8.4	---	---	---	7.9	7.8	7.8	7.2	7.2	7.2
4	8.6	8.1	8.4	---	---	---	7.8	7.8	7.8	7.2	7.1	7.1
5	8.3	8.1	8.2	---	---	---	7.8	7.7	7.7	7.1	7.0	7.1
6	8.2	8.1	8.1	---	---	---	7.7	7.7	7.7	7.1	7.1	7.1
7	8.2	8.1	8.1	---	---	---	7.7	7.6	7.6	7.2	7.1	7.2
8	8.2	8.1	8.1	---	---	---	7.7	7.5	7.6	7.3	7.2	7.2
9	8.1	7.8	7.9	---	---	---	7.8	7.7	7.8	7.3	7.2	7.3
10	8.4	7.9	8.1	---	---	---	7.9	7.8	7.8	7.4	7.2	7.3
11	8.3	7.9	8.1	---	---	---	7.9	7.8	7.8	7.4	7.4	7.4
12	8.3	7.8	8.1	---	---	---	7.8	7.7	7.7	7.5	7.5	7.5
13	8.2	7.8	8.0	---	---	---	7.9	7.7	7.8	7.5	7.5	7.5
14	8.1	7.9	8.0	---	---	---	7.9	7.8	7.8	7.5	7.4	7.5
15	8.1	7.8	8.0	---	---	---	7.8	7.5	7.6	7.5	7.3	7.4
16	8.0	8.0	8.0	---	---	---	7.7	7.6	7.6	7.4	7.3	7.4
17	8.1	8.0	8.0	---	---	---	7.6	7.5	7.6	7.5	7.4	7.4
18	8.1	7.9	8.0	---	---	---	7.7	7.5	7.6	7.5	7.4	7.5
19	8.0	7.9	8.0	---	---	---	7.5	7.5	7.5	7.4	7.2	7.3
20	8.1	8.0	8.0	---	---	---	7.6	7.4	7.5	7.3	7.2	7.2
21	8.3	8.1	8.2	---	---	---	7.5	7.4	7.5	7.3	7.2	7.2
22	8.3	8.2	8.2	---	---	---	7.5	7.4	7.4	7.3	7.2	7.3
23	8.2	8.1	8.1	---	---	---	7.4	7.3	7.4	7.3	7.3	7.3
24	8.1	8.0	8.0	---	---	---	7.4	7.3	7.4	7.5	7.4	7.4
25	8.0	7.9	7.9	---	---	---	7.4	7.2	7.3	7.5	7.4	7.5
26	7.9	7.8	7.9	---	---	---	7.4	7.2	7.3	7.5	7.5	7.5
27	7.8	7.7	7.8	---	---	---	7.4	7.3	7.3	7.6	7.5	7.6
28	8.0	7.8	7.9	---	---	---	7.4	7.3	7.3	7.9	7.7	7.7
29	8.0	7.9	8.0	8.0	7.9	7.9	7.5	7.3	7.4	7.7	7.7	7.7
30	8.0	7.9	8.0	8.0	7.8	7.9	7.3	7.2	7.3	7.5	7.5	7.5
31	8.1	8.0	8.0	---	---	---	7.4	7.3	7.3	7.5	7.4	7.4
MONTH	8.7	7.7	8.1	8.0	7.8	7.9	8.0	7.2	7.6	7.9	7.0	7.4

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.4	7.4	7.4	8.2	8.1	8.1	7.1	7.1	7.1	7.3	7.1	7.2
2	7.4	7.3	7.3	8.2	8.1	8.1	7.1	7.1	7.1	7.2	7.1	7.2
3	7.3	7.2	7.2	8.0	7.7	7.9	7.2	7.1	7.1	7.3	7.1	7.2
4	7.1	7.1	7.1	7.7	7.0	7.2	7.2	7.2	7.2	7.3	7.2	7.2
5	7.3	7.2	7.3	7.1	6.9	7.0	7.3	7.2	7.3	7.3	7.2	7.2
6	7.3	7.2	7.3	7.0	6.9	6.9	7.3	7.2	7.3	7.4	7.2	7.3
7	7.3	7.2	7.2	7.0	6.9	7.0	7.3	7.2	7.3	7.4	7.3	7.3
8	7.3	7.2	7.2	7.0	7.0	7.0	7.3	7.2	7.3	8.0	7.3	7.5
9	7.4	7.3	7.3	7.1	7.0	7.0	7.2	7.2	7.2	7.7	7.2	7.4
10	7.4	7.2	7.3	7.1	7.1	7.1	7.2	7.1	7.1	7.3	7.2	7.3
11	7.4	7.3	7.3	7.4	7.3	7.4	7.1	7.1	7.1	7.5	7.3	7.4
12	7.4	7.2	7.3	7.4	7.3	7.4	7.1	7.1	7.1	7.5	7.3	7.4
13	7.3	7.1	7.2	7.4	7.3	7.4	7.2	7.1	7.2	7.5	7.2	7.3
14	7.3	7.2	7.2	7.4	7.4	7.4	7.2	7.2	7.2	7.3	7.1	7.2
15	7.4	7.3	7.4	7.4	7.4	7.4	7.2	7.2	7.2	7.2	7.1	7.1
16	7.4	7.3	7.4	7.5	7.4	7.5	7.2	7.1	7.2	7.3	7.1	7.2
17	7.4	7.1	7.2	7.5	7.4	7.4	7.2	7.1	7.2	7.3	7.2	7.3
18	8.1	7.1	7.5	7.5	7.4	7.5	7.2	7.1	7.2	7.3	7.2	7.3
19	8.2	8.1	8.2	7.5	7.4	7.5	7.2	7.1	7.2	7.3	7.2	7.2
20	8.3	8.1	8.2	7.5	7.4	7.4	7.2	7.1	7.1	7.3	7.2	7.3
21	8.2	8.0	8.1	7.5	7.3	7.4	7.2	7.1	7.1	7.4	7.2	7.3
22	8.2	8.1	8.1	7.6	7.5	7.5	7.1	7.0	7.1	7.4	7.3	7.4
23	8.1	8.0	8.1	7.6	7.4	7.5	7.2	7.1	7.2	7.4	7.3	7.3
24	8.0	7.2	7.5	7.5	7.4	7.4	7.2	7.2	7.2	7.5	7.4	7.5
25	8.3	7.1	7.6	7.7	7.4	7.5	7.2	7.2	7.2	7.5	7.4	7.4
26	8.3	8.2	8.2	7.6	7.5	7.6	7.3	7.2	7.2	7.5	7.4	7.4
27	8.3	8.1	8.2	7.6	7.4	7.5	7.3	7.2	7.2	7.5	7.4	7.5
28	8.3	8.1	8.2	7.5	7.4	7.5	7.3	7.2	7.3	7.6	7.5	7.6
29	---	---	---	7.4	7.3	7.4	7.4	7.2	7.3	7.7	7.6	7.6
30	---	---	---	7.3	7.2	7.3	7.4	7.2	7.3	7.8	7.7	7.7
31	---	---	---	7.2	7.2	7.2	---	---	---	7.9	7.7	7.8
MONTH	8.3	7.1	7.6	8.2	6.9	7.4	7.4	7.0	7.2	8.0	7.1	7.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.8	7.8	---	---	---	---	---	---	8.0	7.9	7.9
2	8.0	7.8	7.9	---	---	---	---	---	---	8.1	7.9	8.1
3	7.9	7.9	7.9	---	---	---	---	---	---	8.1	8.0	8.0
4	8.0	7.9	7.9	---	---	---	---	---	---	8.1	8.0	8.0
5	8.0	7.9	7.9	---	---	---	8.2	8.0	8.1	8.1	8.0	8.0
6	7.9	7.9	7.9	---	---	---	8.2	8.0	8.1	8.1	8.0	8.0
7	8.0	7.9	8.0	---	---	---	8.2	8.0	8.1	8.1	8.0	8.0
8	8.0	7.9	8.0	---	---	---	8.4	8.1	8.2	8.1	8.0	8.0
9	8.1	8.0	8.0	8.0	7.9	8.0	8.4	8.2	8.3	8.0	7.9	7.9
10	8.0	7.9	7.9	8.0	7.9	8.0	8.5	8.2	8.3	8.0	7.9	8.0
11	8.0	7.9	8.0	8.0	7.9	8.0	8.5	8.3	8.3	8.0	7.9	8.0
12	8.0	7.9	7.9	8.0	7.9	8.0	8.5	8.2	8.3	7.9	7.9	7.9
13	7.9	7.9	7.9	8.0	8.0	8.0	8.4	8.2	8.3	8.0	7.9	7.9
14	7.9	7.8	7.8	8.1	7.9	8.0	8.6	8.3	8.4	7.9	7.8	7.9
15	7.8	7.8	7.8	8.1	8.0	8.0	8.7	8.3	8.4	7.9	7.8	7.8
16	7.8	7.7	7.7	8.0	7.9	8.0	8.6	8.3	8.5	7.8	7.8	7.8
17	7.9	7.7	7.8	8.0	7.9	7.9	8.4	8.2	8.3	7.9	7.8	7.9
18	7.9	7.7	7.8	7.9	7.8	7.9	8.3	8.2	8.3	7.9	7.8	7.9
19	7.9	7.8	7.8	7.9	7.8	7.8	8.2	8.1	8.2	7.9	7.9	7.9
20	8.1	7.8	7.9	7.8	7.7	7.7	8.1	7.9	7.9	8.0	7.9	7.9
21	8.1	7.9	8.0	7.7	7.6	7.7	7.9	7.8	7.9	8.0	7.9	7.9
22	8.1	7.9	8.0	7.7	7.5	7.6	8.1	7.8	7.8	7.9	7.9	7.9
23	8.1	7.9	7.9	7.7	7.6	7.6	8.0	7.9	7.9	7.9	7.9	7.9
24	8.0	7.8	7.9	7.7	7.5	7.6	8.0	7.9	8.0	8.0	7.9	8.0
25	8.0	7.9	8.0	7.6	7.6	7.6	8.0	7.9	7.9	7.9	7.9	7.9
26	7.9	7.8	7.9	7.6	7.6	7.6	7.9	7.8	7.9	7.9	7.9	7.9
27	7.8	7.7	7.8	7.6	7.4	7.5	8.0	7.9	7.9	7.8	7.7	7.8
28	7.7	7.6	7.6	7.5	7.4	7.5	8.1	8.0	8.0	7.7	7.7	7.7
29	7.6	7.5	7.5	---	---	---	8.1	8.0	8.0	7.7	7.7	7.7
30	---	---	---	---	---	---	8.1	8.0	8.0	7.7	7.6	7.7
31	---	---	---	---	---	---	8.0	7.9	7.9	---	---	---
MONTH	8.1	7.5	7.9	8.1	7.4	7.8	8.7	7.8	8.1	8.1	7.6	7.9
YEAR	8.7	6.9	7.6									

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.0	23.0	23.5	14.0	13.5	13.5	8.0	7.5	8.0	5.5	5.0	5.5
2	25.5	23.0	23.5	---	---	---	8.5	7.5	8.0	5.5	5.0	5.0
3	24.5	23.5	24.0	---	---	---	8.0	7.5	7.5	5.0	4.5	5.0
4	24.0	23.5	23.5	---	---	---	8.0	7.5	8.0	5.0	4.5	5.0
5	23.5	22.5	23.0	---	---	---	8.0	7.5	8.0	5.0	4.5	5.0
6	22.5	21.5	22.0	---	---	---	8.0	8.0	8.0	5.0	4.5	5.0
7	21.0	20.0	20.5	---	---	---	8.0	7.5	8.0	4.5	4.5	4.5
8	20.0	19.0	19.5	---	---	---	8.0	7.5	7.5	4.5	4.5	4.5
9	20.0	19.0	19.5	---	---	---	7.5	7.0	7.5	4.5	3.5	4.0
10	20.5	19.0	19.5	---	---	---	7.5	7.0	7.5	3.5	2.5	3.0
11	20.0	19.0	19.5	---	---	---	7.5	7.5	7.5	3.0	2.5	2.5
12	20.5	19.5	20.0	---	---	---	7.5	7.5	7.5	3.0	2.5	2.5
13	20.5	19.5	20.0	---	---	---	7.5	7.5	7.5	3.0	2.5	3.0
14	20.5	19.5	20.0	---	---	---	7.5	7.0	7.5	3.5	3.0	3.0
15	20.0	19.5	20.0	---	---	---	7.5	7.0	7.0	3.5	3.5	3.5
16	20.0	18.5	19.0	---	---	---	8.0	7.0	7.5	3.5	3.0	3.0
17	18.5	17.5	18.0	---	---	---	8.0	7.5	7.5	3.5	3.0	3.0
18	18.0	17.0	17.5	---	---	---	8.5	7.5	8.0	3.5	2.5	3.0
19	18.0	17.5	17.5	---	---	---	9.0	8.0	8.5	2.5	2.5	2.5
20	17.5	16.5	16.5	---	---	---	9.0	8.0	8.5	3.0	2.5	3.0
21	17.0	16.0	16.0	---	---	---	8.0	7.0	7.5	3.5	3.0	3.5
22	16.0	15.5	16.0	---	---	---	7.5	7.0	7.5	3.5	3.0	3.5
23	16.0	15.5	15.5	---	---	---	7.5	6.5	7.0	3.5	3.0	3.5
24	16.0	15.5	15.5	---	---	---	7.0	6.5	7.0	3.5	3.0	3.5
25	16.0	15.5	15.5	---	---	---	7.0	7.0	7.0	3.5	3.0	3.5
26	15.0	15.0	15.0	---	---	---	7.0	6.5	7.0	4.0	3.0	3.5
27	14.5	14.0	14.5	---	---	---	7.5	7.0	7.0	4.0	3.5	3.5
28	14.0	13.5	13.5	---	---	---	7.5	7.0	7.5	4.0	3.0	3.5
29	13.5	13.0	13.5	8.5	8.0	8.5	7.5	7.0	7.5	3.0	2.5	3.0
30	13.5	13.0	13.5	8.5	7.5	8.0	7.5	6.5	7.0	3.0	2.5	3.0
31	13.5	13.0	13.0	---	---	---	6.5	5.5	6.0	3.0	2.5	2.5
MONTH	25.5	13.0	18.5	14.0	7.5	10.0	9.0	5.5	7.5	5.5	2.5	3.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	2.5	2.5	10.0	9.5	9.5	15.5	15.0	15.0	23.0	22.5	22.5
2	3.5	2.5	3.0	9.5	9.0	9.0	16.0	15.5	16.0	22.5	22.0	22.5
3	3.5	3.0	3.5	9.5	9.0	9.0	16.0	15.5	16.0	23.5	22.0	22.5
4	4.0	3.5	4.0	9.5	9.0	9.5	16.0	15.5	15.5	23.0	22.5	22.5
5	4.0	3.5	4.0	9.5	9.0	9.5	15.5	14.5	15.0	23.5	22.5	23.0
6	4.5	4.0	4.0	10.0	9.5	10.0	15.5	14.5	15.0	24.0	23.0	23.5
7	4.5	3.5	4.0	10.5	10.0	10.0	16.5	15.5	16.0	24.5	24.0	24.0
8	4.5	4.0	4.0	11.0	10.5	11.0	17.5	16.5	17.0	26.5	24.0	25.0
9	5.0	4.5	4.5	11.5	11.5	11.5	17.5	17.0	17.5	26.0	24.5	25.0
10	6.0	5.0	5.5	12.0	12.0	12.0	18.5	17.5	18.0	24.5	24.0	24.5
11	5.5	5.5	5.5	12.5	12.0	12.5	18.5	18.0	18.5	25.5	23.5	24.5
12	6.5	5.5	6.0	12.5	12.5	12.5	19.0	18.5	19.0	26.0	24.0	25.0
13	6.5	6.0	6.0	12.5	12.0	12.5	19.5	19.0	19.0	26.0	23.5	24.5
14	7.0	6.5	6.5	13.0	12.5	13.0	20.0	19.0	19.5	23.5	23.0	23.5
15	7.0	6.5	6.5	14.0	13.0	13.5	20.0	19.5	19.5	24.0	23.0	23.5
16	6.5	6.5	6.5	14.0	13.5	13.5	20.0	19.5	20.0	25.0	23.5	24.0
17	6.5	6.0	6.5	14.0	13.5	13.5	20.5	20.0	20.0	25.0	24.5	24.5
18	7.5	6.5	7.0	14.0	13.5	14.0	20.5	20.0	20.0	25.0	24.5	24.5
19	7.0	7.0	7.0	14.0	13.5	14.0	20.5	20.0	20.5	25.0	24.0	24.5
20	8.0	7.0	7.0	14.0	13.0	13.5	20.5	20.5	20.5	25.0	24.5	25.0
21	8.0	7.0	7.5	14.5	13.5	14.0	20.5	20.5	20.5	25.0	24.5	25.0
22	8.5	7.5	8.0	14.0	13.5	13.5	21.0	20.5	21.0	26.0	24.5	25.0
23	10.0	8.5	9.0	15.0	13.5	14.0	21.5	21.0	21.0	25.5	25.0	25.0
24	10.0	9.0	9.5	14.0	14.0	14.0	22.0	21.0	21.5	26.0	25.0	25.5
25	10.0	9.5	10.0	14.5	14.0	14.0	22.0	21.0	21.5	26.0	25.0	25.5
26	10.5	10.0	10.0	14.5	14.0	14.0	22.0	21.0	21.5	26.0	25.0	25.5
27	10.0	9.5	10.0	15.0	14.0	14.5	22.0	21.0	21.5	26.5	25.5	26.0
28	10.0	9.5	10.0	16.0	15.0	15.5	22.5	21.5	22.0	26.5	26.0	26.5
29	---	---	---	15.5	14.5	15.0	24.5	22.0	22.5	27.0	26.0	26.5
30	---	---	---	16.0	15.0	15.5	24.0	22.5	23.0	27.5	26.5	27.0
31	---	---	---	16.0	15.0	15.5	---	---	---	28.0	27.0	27.5
MONTH	10.5	2.5	6.5	16.0	9.0	12.5	24.5	14.5	19.0	28.0	22.0	24.5

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	28.0	27.0	27.5	27.5	27.0	27.0	---	---	---	30.5	30.0	30.0
2	28.0	27.0	27.5	27.5	27.0	27.5	---	---	---	30.5	30.0	30.5
3	28.5	28.0	28.0	28.5	27.0	27.5	---	---	---	30.5	30.0	30.0
4	29.0	28.0	28.5	29.0	28.0	28.5	---	---	---	30.5	29.5	30.0
5	29.0	28.5	28.5	29.5	28.5	29.0	29.5	29.0	29.0	30.0	29.5	30.0
6	29.0	28.5	28.5	30.0	29.0	29.5	29.5	28.5	29.0	29.5	29.5	29.5
7	28.0	27.5	27.5	30.5	29.5	30.0	29.5	29.0	29.0	29.5	29.0	29.0
8	27.5	27.0	27.5	30.5	30.0	30.5	30.0	29.0	29.5	29.5	29.0	29.0
9	28.0	27.0	27.5	30.5	30.0	30.0	30.0	29.0	29.5	29.0	28.5	29.0
10	28.5	27.5	28.0	30.5	29.5	30.0	30.0	29.0	29.5	29.0	28.5	29.0
11	29.0	28.5	28.5	30.0	29.5	30.0	30.0	29.5	29.5	28.5	28.0	28.5
12	29.5	28.5	29.0	30.5	29.5	30.0	29.5	29.0	29.0	28.0	27.5	28.0
13	29.5	28.5	29.0	31.0	30.5	30.5	29.5	29.0	29.5	27.5	27.0	27.5
14	29.0	28.5	29.0	31.5	30.5	31.0	30.0	29.5	29.5	27.0	26.0	26.5
15	29.0	28.5	28.5	31.5	31.0	31.5	30.5	29.5	30.0	26.0	25.5	26.0
16	28.5	28.0	28.5	31.5	31.0	31.5	31.0	30.0	30.5	26.0	25.5	26.0
17	28.5	28.0	28.0	31.5	31.5	31.5	30.5	29.5	30.0	26.0	25.5	26.0
18	29.0	28.0	28.5	31.5	31.5	31.5	30.0	29.5	30.0	26.5	26.0	26.0
19	29.0	28.0	28.5	31.5	31.0	31.5	30.0	29.5	30.0	26.5	26.0	26.0
20	29.0	28.0	28.5	31.0	31.0	31.0	29.5	29.0	29.0	26.0	25.5	26.0
21	29.0	28.0	28.5	31.0	30.5	31.0	29.0	29.0	29.0	26.0	25.5	25.5
22	29.0	28.5	29.0	31.5	30.5	31.0	29.5	29.0	29.0	26.0	25.5	25.5
23	29.0	28.5	29.0	31.5	30.5	31.0	29.5	29.0	29.0	26.0	26.0	26.0
24	28.5	28.5	28.5	31.5	31.0	31.0	29.5	29.0	29.5	26.0	25.5	26.0
25	29.0	28.5	28.5	31.5	31.0	31.0	29.5	29.0	29.5	25.5	25.5	25.5
26	28.5	27.5	28.0	31.5	30.5	31.0	29.5	29.0	29.0	26.0	25.5	26.0
27	27.5	27.0	27.5	30.5	30.0	30.5	29.5	29.0	29.0	26.0	25.5	26.0
28	28.0	27.0	27.5	30.0	29.5	30.0	29.5	29.0	29.0	26.0	25.5	25.5
29	27.5	27.0	27.0	---	---	---	29.5	29.0	29.0	25.5	25.0	25.0
30	27.0	26.5	27.0	---	---	---	29.5	29.0	29.5	25.5	25.0	25.5
31	---	---	---	---	---	---	30.0	29.5	29.5	---	---	---
MONTH	29.5	26.5	28.0	31.5	27.0	30.0	31.0	28.5	29.5	30.5	25.0	27.5

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	9.3	8.7	9.0	11.6	10.9	11.1	11.8	11.1	11.5
2	---	---	---	---	---	---	11.6	11.2	11.3	11.5	11.1	11.3
3	---	---	---	---	---	---	11.6	10.9	11.2	11.3	10.8	11.1
4	---	---	---	---	---	---	11.7	11.1	11.4	10.9	10.4	10.6
5	---	---	---	---	---	---	11.5	11.0	11.3	10.8	10.2	10.4
6	---	---	---	---	---	---	11.5	10.8	11.1	10.4	10.2	10.3
7	---	---	---	---	---	---	11.4	10.8	11.0	11.1	10.3	10.7
8	---	---	---	---	---	---	11.4	10.6	11.0	10.8	10.4	10.6
9	---	---	---	---	---	---	12.7	11.3	12.0	10.8	10.2	10.4
10	---	---	---	---	---	---	12.8	12.1	12.4	11.6	10.1	10.7
11	---	---	---	---	---	---	12.8	11.9	12.3	11.8	11.0	11.4
12	---	---	---	---	---	---	11.8	11.1	11.5	12.2	11.8	11.9
13	---	---	---	---	---	---	12.3	11.0	11.7	12.0	11.5	11.7
14	---	---	---	---	---	---	12.4	11.9	12.1	11.5	11.2	11.3
15	---	---	---	---	---	---	12.0	11.4	11.7	11.3	10.8	11.1
16	---	---	---	---	---	---	11.9	11.0	11.3	11.3	10.5	11.0
17	---	---	---	---	---	---	11.6	11.0	11.2	11.6	10.9	11.2
18	---	---	---	---	---	---	11.9	10.8	11.2	12.0	11.4	11.7
19	---	---	---	---	---	---	11.1	10.6	10.8	11.6	11.2	11.3
20	---	---	---	---	---	---	10.9	10.3	10.6	11.4	11.0	11.1
21	---	---	---	---	---	---	11.1	10.4	10.6	11.3	10.7	11.0
22	7.5	6.6	7.0	---	---	---	11.1	10.2	10.6	11.3	10.9	11.1
23	7.0	6.5	6.8	---	---	---	11.1	10.4	10.7	11.1	10.7	10.9
24	6.8	6.0	6.4	---	---	---	11.2	10.4	10.8	11.5	11.0	11.2
25	6.6	6.0	6.3	---	---	---	11.0	10.4	10.7	11.6	11.2	11.5
26	6.9	5.9	6.4	---	---	---	11.4	10.4	10.9	11.5	11.1	11.3
27	7.4	5.8	6.5	---	---	---	11.6	10.6	11.1	11.7	11.3	11.5
28	9.4	6.9	8.1	---	---	---	11.3	10.6	10.9	12.1	11.8	11.9
29	9.4	8.6	9.0	10.5	9.6	10.1	11.9	10.4	11.2	12.0	11.6	11.8
30	9.6	8.5	9.0	11.0	9.9	10.5	11.3	10.3	10.8	11.9	11.6	11.7
31	10.2	9.1	9.5	---	---	---	11.8	10.9	11.3	11.9	11.6	11.7
MONTH	10.2	5.8	7.5	11.0	8.7	9.9	12.8	10.2	11.2	12.2	10.1	11.2

07263620 ARKANSAS RIVER AT DAVID D. TERRY LOCK AND DAM, BELOW LITTLE ROCK, AR--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.3	11.7	12.0	12.9	11.7	12.2	8.9	8.6	8.7	6.3	4.5	5.2
2	12.6	12.3	12.5	13.1	12.4	12.7	8.3	7.9	8.2	5.9	4.2	5.1
3	12.6	12.3	12.5	12.8	11.7	12.4	8.0	7.4	7.7	7.8	5.3	6.2
4	12.5	12.0	12.2	12.6	12.1	12.3	7.7	7.3	7.5	8.2	5.9	6.4
5	12.7	12.2	12.4	12.5	11.7	12.1	9.7	7.4	8.8	7.5	6.5	7.1
6	13.0	12.2	12.6	11.7	10.9	11.3	9.3	8.9	9.2	---	---	---
7	12.9	12.2	12.5	10.8	10.5	10.7	8.8	8.3	8.6	---	---	---
8	12.8	12.2	12.5	10.5	10.3	10.4	8.5	7.6	8.2	---	---	---
9	13.2	12.5	12.9	10.3	9.9	10.1	11.1	7.2	9.5	---	---	---
10	13.6	12.4	12.8	10.0	9.7	9.8	10.7	7.5	9.7	---	---	---
11	13.2	12.3	12.6	10.1	9.6	9.8	9.6	5.5	8.1	---	---	---
12	13.1	12.1	12.5	9.8	9.2	9.5	9.0	5.1	7.7	---	---	---
13	12.5	11.8	12.1	10.4	9.7	10.0	9.0	5.8	7.7	---	---	---
14	12.4	11.9	12.1	10.0	9.6	9.9	8.3	6.7	7.4	---	---	---
15	12.5	11.8	12.3	10.4	10.0	10.2	8.3	6.8	7.8	---	---	---
16	12.7	12.1	12.4	10.5	10.1	10.4	9.0	7.4	8.1	---	---	---
17	12.4	11.0	11.6	10.5	9.6	10.0	9.0	5.9	7.5	---	---	---
18	11.9	11.2	11.5	10.2	9.5	9.8	7.5	5.8	6.7	---	---	---
19	11.9	11.4	11.6	9.5	9.2	9.4	8.8	6.8	7.6	---	---	---
20	12.4	11.5	11.9	9.8	8.2	9.0	8.0	6.6	7.2	---	---	---
21	12.9	11.6	12.0	9.4	8.1	8.7	7.6	6.8	7.2	7.0	4.4	5.7
22	12.8	11.6	12.3	10.6	9.2	9.7	---	---	---	6.7	5.4	6.0
23	11.0	10.0	10.4	10.7	9.4	9.8	---	---	---	5.9	4.8	5.4
24	11.3	9.9	10.5	9.9	8.7	9.4	---	---	---	8.0	5.8	7.2
25	11.2	10.3	10.7	9.4	8.5	8.9	---	---	---	8.4	7.1	7.6
26	11.2	10.0	10.6	9.3	8.4	9.0	---	---	---	7.9	6.9	7.3
27	11.3	10.1	10.8	9.4	7.1	8.2	---	---	---	6.9	6.5	6.7
28	12.5	11.2	11.7	8.8	6.8	8.3	---	---	---	6.7	6.1	6.4
29	---	---	---	7.1	6.1	6.7	---	---	---	6.7	6.1	6.4
30	---	---	---	7.3	7.0	7.1	---	---	---	7.5	6.2	6.5
31	---	---	---	8.1	7.6	7.9	---	---	---	8.4	6.7	7.4
MONTH	13.6	9.9	11.9	13.1	6.1	9.9	11.1	5.1	8.1	8.4	4.2	6.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.4	7.0	7.6	7.0	6.6	6.8	---	---	---	7.1	6.7	6.8
2	8.4	7.1	7.7	7.3	6.7	7.0	---	---	---	6.6	6.2	6.4
3	7.6	6.8	7.2	7.9	6.9	7.3	---	---	---	6.7	6.2	6.5
4	7.7	6.4	6.9	8.8	7.3	7.9	---	---	---	6.9	6.4	6.6
5	8.0	6.3	7.0	9.7	7.9	8.6	7.1	6.2	6.5	6.9	6.5	6.7
6	7.3	6.4	6.9	9.4	8.0	8.6	6.9	6.0	6.4	7.0	6.6	6.8
7	8.2	6.7	7.3	8.8	7.6	8.2	6.9	5.5	6.1	7.4	6.8	7.1
8	7.4	6.6	7.1	8.4	7.2	7.6	7.4	5.9	6.5	7.5	6.7	7.1
9	8.6	6.9	7.7	7.5	6.4	6.8	7.2	6.3	6.8	---	---	---
10	8.4	7.2	7.7	7.3	6.8	7.0	7.3	6.2	6.9	---	---	---
11	8.6	7.1	7.8	7.3	6.8	7.0	7.1	6.3	6.6	---	---	---
12	8.8	6.5	7.6	7.3	6.8	7.1	---	---	---	---	---	---
13	7.4	6.5	6.9	7.3	6.9	7.1	---	---	---	---	---	---
14	7.3	5.3	6.2	7.3	6.7	7.0	---	---	---	---	---	---
15	5.9	4.8	5.3	---	---	---	---	---	---	---	---	---
16	5.5	4.6	5.0	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	7.9	7.2	7.5
19	---	---	---	---	---	---	---	---	---	8.2	7.8	8.0
20	---	---	---	---	---	---	7.8	6.9	7.5	8.4	8.0	8.2
21	---	---	---	---	---	---	7.3	6.6	6.9	8.3	8.0	8.1
22	---	---	---	---	---	---	7.7	5.8	6.7	8.0	7.7	7.9
23	---	---	---	---	---	---	7.6	6.6	7.1	7.9	7.4	7.6
24	---	---	---	---	---	---	7.2	6.6	6.9	8.5	7.9	8.2
25	7.6	6.4	7.0	---	---	---	6.8	4.1	6.3	8.6	8.4	8.5
26	6.9	5.6	6.1	---	---	---	7.3	5.9	6.6	8.6	8.4	8.5
27	6.3	5.8	6.0	---	---	---	7.7	7.0	7.2	8.3	8.0	8.2
28	6.6	6.0	6.3	---	---	---	8.1	7.2	7.7	8.0	7.8	7.9
29	6.7	6.1	6.3	---	---	---	7.8	7.1	7.6	8.0	7.8	7.9
30	6.7	6.2	6.5	---	---	---	8.0	7.4	7.7	7.7	7.7	7.7
31	---	---	---	---	---	---	7.8	6.9	7.2	---	---	---
MONTH	8.8	4.6	6.8	9.7	6.4	7.4	8.1	4.1	6.9	8.6	6.2	7.5

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, Hydrologic Unit 08020401, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
04...	9827	9827	4900	481	8.3	24.0	30	9.3	2.7	<10	<5
05...	9827	9827	--	--	--	--	--	--	--	--	--
NOV											
01...	9827	9827	3300	562	8.1	13.0	20	9.3	1.8	--	--
30...	9827	9827	12400	537	8.2	7.0	30	9.7	2.1	180	--
JAN											
19...	9827	9827	--	--	--	--	--	--	--	140	320
FEB											
07...	9827	9827	--	--	--	--	--	--	--	3800	7
MAR											
14...	9827	9827	32500	167	7.3	15.0	40	9.7	2.0	--	--
APR											
11...	9827	9827	36600	168	7.5	22.0	120	9.2	1.6	--	--
MAY											
09...	9827	9827	9500	227	7.7	24.0	80	8.3	2.6	230	140
JUN											
14...	9827	9827	--	--	--	--	--	--	--	--	--
14...	9827	9827	28000	1150	8.1	26.0	45	7.3	1.0	--	--
JUL											
12...	9827	9827	89900	566	8.1	29.0	--	6.1	2.3	--	--
AUG											
08...	9827	9827	16600	547	8.2	29.0	35	8.3	2.6	1500	--
SEP											
12...	9827	9827	26900	564	8.1	28.0	15	7.8	1.2	3800	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	40
NOV											
01...	--	--	--	--	--	--	--	--	--	--	47
30...	130	--	40	--	8.0	66	3.6	--	0	--	44
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	24	0	4.3	--	3.2	15	3.6	38	0	31	7.0
APR											
11...	--	--	--	--	--	--	--	--	--	--	11
MAY											
09...	--	--	--	--	--	--	--	--	--	--	20
JUN											
14...	--	--	--	--	--	170	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	62
JUL											
12...	--	--	--	--	--	--	--	--	--	--	43
AUG											
08...	--	--	--	--	--	--	--	--	--	--	40
SEP											
12...	89	--	--	7.0	--	62	4.5	--	--	--	40

07263750 ARKANSAS RIVER AT LOCK AND DAM 3, NEAR SWAN LAKE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
04...	--	281	12	.10	--	--	.06	--	--	--	<10	160
05...	66	--	--	--	--	--	--	--	--	--	--	--
NOV												
01...	82	343	--	<.10	--	--	.09	--	--	--	<10	400
30...	86	324	9	.11	--	--	.04	<3	<10	<3	<10	260
FEB												
07...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	21	157	46	.41	--	--	.22	<3	<10	--	<10	5200
APR												
11...	23	134	19	.17	<.10	.23	.11	--	--	--	<10	--
MAY												
09...	33	155	--	.20	.01	.18	.09	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	<10	--	20	870
14...	31	699	16	.24	<.05	<.05	.14	--	--	--	--	--
JUL												
12...	89	--	37	.30	.01	.09	.16	--	--	--	10	1700
AUG												
08...	86	321	26	.24	<.05	--	.07	--	--	--	<10	--
SEP												
12...	90	327	29	.30	<.05	.08	.14	--	<10	10	10	940

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
04...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
05...	20	71	--	30	--	--	--	--	--	--	--	--
NOV												
01...	20	<27	--	<10	--	--	--	--	--	--	--	--
30...	90	150	.7	20	--	--	--	--	--	--	--	--
FEB												
07...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
14...	<10	120	--	50	--	--	--	--	--	--	--	--
APR												
11...	10	71	--	70	--	--	--	--	--	--	--	--
MAY												
09...	20	79	--	--	--	--	--	--	--	--	--	--
JUN												
14...	<10	60	--	10	--	--	--	--	--	--	--	--
14...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL												
12...	10	--	--	20	.00	.00	.00	.00	.00	.00	.00	0
AUG												
08...	--	120	--	<10	.00	.00	.00	.00	.05	.00	.05	0
SEP												
12...	<10	400	--	20	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020402, 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 mi² (536 km²).

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.--23 years, 285 ft³/s (8.07 m³/s), 206,500 acre-ft/yr (255 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft³/s (133 m³/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, 1,380 ft³/s (39.1 m³/s) Mar. 9, gage height, 19.38 ft (5.907 m); minimum daily, 2.7 ft³/s (0.08 m³/s) June 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	147	38	20	123	170	1190	353	14	136	31	22
2	10	136	35	20	102	157	1230	248	22	80	32	23
3	8.3	123	33	15	102	277	1160	208	17	48	27	25
4	6.7	94	31	15	96	591	1050	260	11	25	23	30
5	7.6	64	26	15	96	765	915	367	10	14	20	32
6	11	51	25	20	107	912	829	372	8.3	15	23	31
7	7.8	43	28	15	115	1110	796	304	8.7	14	17	17
8	7.4	31	38	15	121	1280	764	233	12	13	12	16
9	8.0	20	64	15	114	1370	688	274	12	15	14	16
10	10	15	85	20	102	1360	566	293	9.6	19	14	20
11	10	13	149	20	95	1270	416	229	7.7	16	16	21
12	7.3	15	219	20	171	1200	298	167	6.0	16	15	26
13	6.7	13	285	20	246	1040	240	123	4.5	16	17	45
14	6.4	14	342	35	354	904	198	94	3.5	16	20	106
15	6.1	12	337	70	412	829	164	83	2.7	17	16	122
16	5.5	13	282	130	396	746	136	66	8.1	17	20	166
17	5.3	12	217	230	324	629	113	63	8.8	16	23	192
18	5.0	12	161	400	248	484	97	62	9.2	11	43	160
19	4.8	12	117	500	191	348	82	54	10	9.8	46	114
20	6.0	16	90	450	153	263	115	45	10	9.9	52	88
21	8.8	18	74	350	126	210	364	37	9.1	14	50	69
22	9.9	19	62	280	112	180	591	34	8.7	13	43	52
23	12	26	53	240	112	156	762	32	12	17	40	43
24	18	31	47	260	110	140	924	44	23	12	34	35
25	157	29	42	280	134	116	1060	41	38	9.0	27	47
26	201	31	37	300	205	96	1110	41	48	20	20	41
27	260	45	32	304	215	105	1080	41	261	33	16	41
28	255	49	27	291	188	280	962	32	313	39	16	50
29	197	46	29	253	---	509	760	26	296	47	14	166
30	169	42	23	207	---	817	535	17	216	45	15	300
31	150	---	24	160	---	1030	---	14	---	41	18	---
TOTAL	1586.3	1192	3052	4970	4870	19444	19195	4257	1419.9	813.7	774	2116
MEAN	51.2	39.7	98.5	160	174	627	640	137	47.3	26.2	25.0	70.5
MAX	260	147	342	500	412	1370	1230	372	313	136	52	300
MIN	4.8	12	23	15	95	96	82	14	2.7	9.0	12	16
AC-FT	3150	2360	6050	9860	9660	38570	38070	8440	2820	1610	1540	4200

CAL YR 1976 TOTAL 58910.9 MEAN 161 MAX 1180 MIN 4.0 AC-FT 116800
WTR YR 1977 TOTAL 63689.9 MEAN 174 MAX 1370 MIN 2.7 AC-FT 126300

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
04...	9827	9827	--	--	--	7.7	--	25	--	2.0	>200	200
05...	9827	9827	--	6.6	635	--	20.0	--	3.5	--	--	--
05...	1028	1028	--	6.6	--	--	20.0	--	--	--	--	--
NOV												
01...	9827	9827	--	--	--	--	--	--	--	--	2400	460
02...	9827	9827	--	137	442	7.3	10.0	80	6.6	3.0	--	--
15...	1028	1028	--	12	--	--	5.0	--	--	--	--	--
DEC												
01...	9827	9827	--	39	1270	7.4	3.0	20	9.3	4.2	400	--
28...	1028	1028	--	27	--	--	6.5	--	--	--	--	--
JAN												
19...	9827	9827	500	--	--	--	--	--	--	--	2400	500
FEB												
10...	1028	1028	--	101	--	--	5.0	--	--	--	--	--
MAR												
04...	1028	1028	--	584	--	--	10.0	--	--	--	--	--
14...	9827	9827	--	884	102	6.7	17.0	80	5.8	2.1	--	--
22...	1028	1028	--	179	--	--	13.0	--	--	--	--	--
APR												
11...	9827	9827	--	389	123	7.0	21.0	120	5.9	2.8	--	--
MAY												
09...	1028	1028	--	265	--	--	22.0	--	--	--	--	--
09...	9827	9827	--	289	131	7.2	23.0	100	4.3	4.0	6400	--
JUN												
14...	9827	9827	--	3.8	462	7.9	24.0	30	2.0	8.0	--	--
JUL												
12...	9827	9827	--	16	472	7.9	27.0	--	2.4	11	--	--
12...	9827	9827	--	--	--	--	--	--	--	--	3800	--
27...	1028	1028	--	32	--	--	25.5	--	--	--	--	--
AUG												
08...	9827	9827	--	12	603	7.7	27.0	35	1.8	9.0	4900	--
SEP												
07...	1028	1028	--	17	--	--	26.0	--	--	--	--	--
12...	9827	9827	--	--	--	--	--	--	--	--	7600	--
13...	9827	9827	--	36	576	7.8	24.0	20	3.1	>3.1	--	--

07264000 BAYOU METO NEAR LONOKE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	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)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	12
05...	--	--	--	--	--	--	--	--	--	--	--
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	45
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	250	--	90	--	5.0	150	5.6	--	0	--	15
28...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
MAR											
04...	--	--	--	--	--	--	--	--	--	--	--
14...	11	0	1.7	--	1.5	8.7	3.7	27	0	22	5.0
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
11...	--	--	--	--	--	--	--	--	--	--	7.0
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	8.0
JUN											
14...	--	--	--	--	--	--	--	--	--	--	4.0
JUL											
12...	--	--	--	--	--	--	--	--	--	--	21
12...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	19
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
13...	120	--	--	13	--	50	3.7	--	--	--	27

07264000 BAYOU METO NEAR LONOKE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT								
04...	--	392	18	.36	--	--	.18	--
05...	100	--	--	--	--	--	--	--
NOV								
02...	73	321	9	.39	--	--	.41	--
DEC								
01...	360	795	--	.64	--	--	.18	<3
MAR								
14...	14	147	50	.21	--	--	.41	<3
APR								
11...	16	122	36	.25	<.10	.19	.34	--
MAY								
09...	18	191	--	.48	.06	.27	.60	--
JUN								
14...	50	298	15	.31	.07	.50	.58	--
JUL								
12...	58	--	48	.60	.05	.22	.49	--
AUG								
08...	96	383	43	.30	<.05	--	.26	--
SEP								
13...	74	362	51	.35	<.05	.22	.50	--

DATE	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)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT								
04...	--	--	<10	640	--	--	--	--
05...	--	--	--	--	--	470	--	20
NOV								
02...	--	--	20	2600	--	210	--	10
DEC								
01...	<10	<3	<10	260	40	240	.6	20
MAR								
14...	<10	--	<10	5200	10	130	--	50
APR								
11...	--	--	<10	--	--	320	--	90
MAY								
09...	--	--	--	--	--	440	--	--
JUN								
14...	--	--	20	760	--	1500	--	20
JUL								
12...	--	--	30	1800	--	--	--	<10
AUG								
08...	--	--	<10	--	--	1300	--	<10
SEP								
13...	<10	<5	20	1300	20	680	--	20

07264050 BAYOU TWO PRAIRIE NEAR CABOT, AR

LOCATION.--Lat 34°51'38", long 91°58'45", in NW¼NW¼ sec.28, T.3 N., R.9 W., Lonoke County, Hydrologic Unit 08020402, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
19...	9827	9827	.00	--	7.4	--	30	--	2.7	900	--
19...	9827	9827	--	213	--	9.0	--	6.4	--	--	--
NOV											
23...	9827	9827	7.0	152	7.1	4.0	65	6.5	1.9	850	--
DEC											
29...	9827	9827	10	145	7.1	3.0	--	8.7	1.7	1500	--
JAN											
27...	9827	9827	77	--	--	--	--	--	--	280	--
FEB											
22...	9827	9827	--	--	--	--	--	--	--	180	--
23...	9827	9827	16	--	--	--	--	--	--	--	--
MAR											
23...	9827	9827	16	108	7.1	11.0	60	7.7	2.7	--	--
APR											
26...	9827	9827	--	67	6.5	18.0	100	3.9	2.1	640	380
MAY											
24...	9827	9827	1.4	194	7.4	27.0	50	5.0	4.4	--	2200
JUN											
21...	9827	9827	--	--	--	--	--	--	--	--	--
22...	9827	9827	.00	223	7.5	26.0	80	1.5	--	--	--
JUL											
12...	9827	9827	--	--	--	--	--	--	--	1300	--
26...	9827	9827	--	--	--	--	--	--	--	5200	--
27...	9827	9827	64	95	7.0	24.0	100	4.3	2.1	--	--
AUG											
23...	9827	9827	--	--	--	--	--	--	--	6200	--
24...	9827	9827	25	187	7.5	26.0	75	3.3	>3.2	--	--
SEP											
28...	9827	9827	4.0	204	7.1	23.0	90	2.4	>2.4	30000	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	74	10	--	18	--	7.0	19	3.7	78	64	2.0
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	--	--	--	--	--	--	--	--	--	--	5.0
DEC											
29...	--	--	--	--	--	--	--	--	--	--	14
JAN											
27...	--	--	--	--	--	--	--	--	--	--	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
23...	--	--	--	--	--	--	--	--	--	--	10
APR											
26...	--	--	--	--	--	--	--	--	--	--	4.0
MAY											
24...	--	--	14	--	6.0	--	14	2.8	--	--	6.0
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	5.0
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	10
AUG											
23...	--	--	--	--	--	--	--	--	--	--	--
24...	41	--	8.0	--	3.0	--	19	3.8	--	--	5.0
SEP											
28...	--	--	--	--	--	--	--	--	--	--	12

07264050 BAYOU TWO PRAIRIE NEAR CABOT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
19...	28	139	9	.14	--	--	.22	<3	10	--	--	--
19...	--	--	--	--	--	--	--	--	--	<3	<10	860
NOV												
23...	16	131	18	.16	--	--	.95	--	--	--	20	1700
DEC												
29...	16	112	9	.61	--	--	1.2	--	--	--	30	1200
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
23...	12	98	21	.24	<.10	<.10	.31	--	--	--	50	1800
APR												
26...	6.5	88	17	.15	<.05	.36	.31	--	--	--	<10	1600
MAY												
24...	14	150	49	.41	.03	--	.02	--	<10	--	30	2100
JUN												
22...	16	173	104	.09	.04	.44	.64	--	--	--	10	3700
JUL												
27...	7.0	--	33	.34	.05	.33	.47	--	--	--	20	3800
AUG												
24...	20	149	28	.24	<.05	.46	1.3	--	<10	<5	20	3400
SEP												
28...	23	188	53	.34	.14	.77	.93	--	--	--	<10	3400

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
19...	--	--	<.5	20	.00	.00	.00	.00	.00	.00	.00	0
19...	10	220	--	--	--	--	--	--	--	--	--	--
NOV												
23...	--	160	--	40	--	--	--	--	--	--	--	--
DEC												
29...	<10	86	--	30	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
23...	--	520	--	50	--	--	--	--	--	--	--	--
APR												
26...	--	580	--	<10	--	--	--	--	--	--	--	--
MAY												
24...	20	2100	--	70	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	50	.00	.00	.00	.00	.00	.00	.00	0
JUL												
27...	--	960	--	50	.00	.00	.00	.00	.00	.00	.00	0
AUG												
24...	<10	1400	--	90	.00	.00	.00	.00	.00	.00	.00	0
SEP												
28...	--	1400	--	<10	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020402, at bridge on State Highway 11, 1.6 mi (2.6 km) southwest of Bayou Meto.

DRAINAGE AREA.--794 mi² (2,056 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
04...	9827	9827	10	369	7.7	23.0	35	4.9	2.0	680	50
05...	9827	9827	--	--	--	--	--	--	--	--	--
NOV											
01...	9827	9827	842	252	7.4	11.0	80	7.3	3.6	--	--
02...	9827	9827	--	--	--	--	--	--	--	380	140
30...	9827	9827	39	248	7.4	6.0	70	6.1	3.5	40	--
JAN											
19...	9827	9827	--	--	--	--	--	--	--	770	910
FEB											
07...	9827	9827	580	--	--	--	--	--	--	110	10
MAR											
14...	9827	9827	2400	88	7.1	16.0	240	6.0	2.1	--	--
APR											
11...	9827	9827	2040	103	7.1	21.0	200	4.7	.6	--	--
MAY											
09...	9827	9827	676	117	7.4	24.0	150	5.1	2.2	160	660
JUN											
14...	9827	9827	.00	253	7.9	25.0	55	5.6	4.9	--	--
JUL											
12...	9827	9827	--	--	--	--	--	--	--	720	--
12...	9827	9827	952	142	7.5	28.0	--	4.5	.9	--	--
AUG											
08...	9827	9827	97	210	7.5	28.0	60	5.0	1.6	3000	--
SEP											
12...	9827	9827	54	353	7.7	26.0	35	4.0	1.6	700	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	13
NOV											
01...	--	--	--	--	--	--	--	--	--	--	11
02...	--	--	--	--	--	--	--	--	--	--	--
30...	74	--	19	--	6.0	17	6.0	--	0	--	22
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	12	0	.8	--	2.4	6.2	6.6	34	0	28	3.0
APR											
11...	--	--	--	--	--	--	--	--	--	--	6.0
MAY											
09...	--	--	--	--	--	--	--	--	--	--	6.0
JUN											
14...	--	--	--	--	--	--	--	--	--	--	14
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	9.0
AUG											
08...	--	--	--	--	--	--	--	--	--	--	8.0
SEP											
12...	140	--	--	11	--	19	5.5	--	--	--	13

07265099 BAYOU METO NEAR BAYOU METO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
04...	--	215	11	.11	--	--	.08	--	--	--	<10	490
05...	31	--	--	--	--	--	--	--	--	--	--	--
NOV												
01...	25	192	5	.21	--	--	.12	--	--	--	<10	1800
30...	30	185	9	.26	--	--	.15	<3	<10	<3	10	1500
FEB												
07...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	9.0	369	165	.47	--	--	.95	<3	<10	--	<10	14100
APR												
11...	10	163	40	.20	<.10	.24	.41	--	--	--	20	--
MAY												
09...	13	124	--	.24	.03	.19	.23	--	--	--	--	--
JUN												
14...	26	182	40	<.05	<.05	<.05	.27	--	--	--	10	1700
JUL												
12...	11	--	89	.36	.06	.25	.44	--	--	--	<10	5600
AUG												
08...	16	162	38	.24	<.05	--	.22	--	--	--	<10	--
SEP												
12...	32	222	30	.18	<.05	.22	.18	--	<10	6	<10	1300

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
04...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
05...	--	400	--	<10	--	--	--	--	--	--	--	--
NOV												
01...	--	83	--	<10	--	--	--	--	--	--	--	--
30...	<10	140	1.0	<10	--	--	--	--	--	--	--	--
FEB												
07...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
14...	20	300	--	70	--	--	--	--	--	--	--	--
APR												
11...	--	240	--	80	--	--	--	--	--	--	--	--
MAY												
09...	--	250	--	--	--	--	--	--	--	--	--	--
JUN												
14...	<10	450	--	10	.00	.01	.00	.00	.01	.00	.00	0
JUL												
12...	--	--	--	10	.00	.00	.00	.00	.03	.00	.00	0
AUG												
08...	--	300	--	<10	.00	.00	.00	.00	.00	.00	.03	0
SEP												
12...	20	230	--	20	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08020401, 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 mi² (415,630 km²).

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT											
04...	9827	9827	5700	502	8.3	24.0	30	8.3	2.3	40	25
NOV											
01...	9827	9827	3800	536	8.1	12.0	15	9.6	1.8	1900	25
30...	9827	9827	9000	557	8.1	7.0	20	9.8	1.2	230	--
JAN											
19...	9827	9827	--	--	--	--	--	--	--	830	550
FEB											
07...	9827	9827	--	--	--	--	--	--	--	870	<10
MAR											
14...	9827	9827	35900	169	7.4	15.0	70	8.7	1.6	--	--
APR											
11...	9827	9827	34100	157	7.2	20.0	160	8.7	1.8	--	--
MAY											
09...	9827	9827	9030	225	7.5	24.0	90	7.4	1.7	130	200
JUN											
14...	9827	9827	19500	1260	8.1	27.0	35	7.3	1.6	--	--
JUL											
12...	9827	9827	74800	537	8.0	29.0	--	7.9	2.1	260	--
AUG											
08...	9827	9827	18100	510	8.4	29.0	30	9.7	3.6	--	--
08...	9827	9827	--	--	--	--	--	--	--	170	--
SEP											
12...	9827	9827	32500	554	8.2	28.0	15	9.0	2.0	860	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	49
NOV											
01...	--	--	--	--	--	--	--	--	--	--	46
30...	160	--	42	--	13	61	3.9	--	0	--	45
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	23	0	4.2	--	3.0	17	3.5	44	0	36	10
APR											
11...	--	--	--	--	--	--	--	--	--	--	11
MAY											
09...	--	--	--	--	--	--	--	--	--	--	15
JUN											
14...	--	--	--	--	--	--	--	--	--	--	64
JUL											
12...	--	--	--	--	--	--	--	--	--	--	43
AUG											
08...	--	--	--	--	--	--	--	--	--	--	39
08...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	130	--	--	8.0	--	67	4.4	--	--	--	44

07265283 ARKANSAS RIVER AT DAM NO. 2, NEAR GILLETT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
04...	68	299	4	<.10	--	--	.10	--	--	--	<10	260
NOV												
01...	77	318	8	<.10	--	--	.07	--	--	--	20	570
30...	83	325	6	<.10	--	--	.03	<3	<10	<3	<10	200
FEB												
07...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	21	158	47	.20	--	--	.25	<3	<10	--	30	5200
APR												
11...	21	141	23	.20	<.10	.23	.16	--	--	--	10	--
MAY												
09...	32	154	--	.27	.01	.13	.10	--	--	--	--	--
JUN												
14...	310	750	18	.26	<.05	<.05	.15	--	--	--	<10	980
JUL												
12...	92	--	42	.29	.01	.11	.17	--	--	--	40	1100
AUG												
08...	79	310	35	.10	<.05	--	.08	--	--	--	<10	--
SEP												
12...	98	349	23	.24	<.05	.18	.13	--	<10	9	<10	950

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
04...	--	260	--	<10	.00	.00	.00	.00	.00	.00	.00	0
NOV												
01...	--	120	--	10	--	--	--	--	--	--	--	--
30...	20	53	.7	20	--	--	--	--	--	--	--	--
FEB												
07...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
14...	<10	170	--	60	--	--	--	--	--	--	--	--
APR												
11...	--	100	--	90	--	--	--	--	--	--	--	--
MAY												
09...	--	79	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	120	--	20	.00	.00	.00	.00	.00	.00	.00	0
JUL												
12...	--	--	--	30	.00	.00	.00	.00	.00	.00	.00	0
AUG												
08...	--	75	--	10	.00	.00	.00	.00	.01	.00	.07	0
SEP												
12...	20	94	--	20	--	--	--	--	--	--	--	--

07265450 MISSISSIPPI RIVER NEAR ARKANSAS 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 33°33'27", long 91°14'15", sec.18, T.13 S., R.1 W., Chicot County, Hydrologic Unit 08050002, 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-QUALITY RECORDS
(See next page)

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, 692 micromhos June 13, 1977; minimum, 236 micromhos April 14, 1975.
WATER TEMPERATURES: Maximum, 30.0°C on many days during summer months; minimum, 0.0°C Jan 19, 20, 22, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 692 micromhos June 13; minimum, 256 micromhos Apr. 21.
WATER TEMPERATURES: Maximum, 30.0°C on several days in July; minimum, 0.0°C Jan. 19, 20, 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODF FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
OCT											
23...	1028	1028	442	7.7	16.5	--	--	B1200	450	160	71
NOV											
17...	1028	1028	369	7.9	8.5	--	--	--	--	130	41
DEC											
21...	1028	1028	390	7.5	6.0	--	--	320	B16	140	47
JAN											
27...	1028	1028	305	7.5	2.0	--	--	620	180	120	30
FEB											
24...	1028	1028	430	7.6	6.5	--	--	B120	B48	150	50
MAR											
23...	1028	1028	270	7.4	10.5	7.9	85	B160	B52	100	34
APR											
21...	1028	1028	255	7.2	17.0	8.1	85	1200	B160	100	37
MAY											
18...	1028	1028	345	7.8	22.0	7.1	83	630	B50	110	16
JUN											
16...	1028	1028	469	7.9	25.5	6.8	84	1800	640	170	55
JUL											
14...	1028	1028	412	8.0	29.0	6.7	88	800	B100	140	42
AUG											
10...	1028	1028	495	8.1	30.5	--	--	<33	<20	170	51
25...	1028	1028	455	7.8	28.0	6.7	86	B1400	B140	150	63
SEP											
21...	1028	1028	--	--	--	--	--	--	--	--	--
21...	1028	1028	369	7.6	24.0	7.4	90	--	490	130	34

DATE	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
23...	43	12	29	28	1.0	3.7	105	0	86	3.4	77
NOV											
17...	34	12	23	27	.9	3.1	114	0	94	2.3	59
DEC											
21...	37	11	22	25	.8	2.7	110	0	90	5.6	67
JAN											
27...	32	8.5	15	22	.6	2.1	103	0	84	5.2	36
FEB											
24...	40	12	22	24	.8	2.7	121	0	99	4.9	62
MAR											
23...	29	7.3	10	17	.4	2.3	83	0	68	5.3	37
APR											
21...	28	7.6	9.8	17	.4	2.4	78	0	64	7.9	39
MAY											
18...	26	10	14	22	.6	2.8	110	0	90	2.8	55
JUN											
16...	45	14	33	29	1.1	4.0	140	0	110	2.8	69
JUL											
14...	38	11	26	28	1.0	3.4	120	0	98	1.9	49
AUG											
10...	45	13	27	26	.9	3.6	140	0	110	1.8	74
25...	40	11	26	27	.9	3.7	100	0	82	2.5	74
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	35	11	22	26	.8	4.4	120	0	98	4.8	55

B PLATE COUNT OUTSIDE IDEAL RANGE.

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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											
23...	33	.3	3.5	263	253	.36	1.5	.58	2.1	9.2	.25
NOV											
17...	24	.2	5.3	235	217	.32	.57	.42	.99	4.4	.18
DEC											
21...	21	.2	4.7	253	220	.34	.82	1.0	1.8	8.1	.18
JAN											
27...	16	.2	4.0	184	165	.25	.54	.52	1.1	4.7	.11
FEB											
24...	26	.2	4.5	241	229	.33	.75	1.1	1.9	8.2	.27
MAR											
23...	17	.1	5.1	163	149	.22	1.1	.97	2.1	9.2	.31
APR											
21...	11	.1	5.3	152	142	.21	.97	.55	1.5	6.7	.07
MAY											
18...	17	.2	5.0	205	184	.28	1.2	.81	2.0	8.9	.20
JUN											
16...	32	.3	5.7	282	272	.38	.90	.76	1.7	7.3	.26
JUL											
14...	27	.2	4.2	220	218	.30	.82	.62	1.4	6.4	.23
AUG											
10...	28	.3	.8	272	261	.37	.34	1.3	1.6	7.3	.16
25...	27	.3	3.3	245	235	.33	1.1	.85	2.0	8.6	.22
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	23	.2	7.1	213	217	.29	1.2	1.1	2.3	10	.34

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)
OCT										
23...	1	0	1	<10	<9	1	10	10	0	<50
NOV										
17...	--	--	--	--	--	--	--	--	--	--
DEC										
21...	--	--	--	--	--	--	--	--	--	--
JAN										
27...	2	1	1	<10	<9	1	0	0	0	<50
FEB										
24...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	--	--	--	--	--	--	--	--	--	--
APR										
21...	--	--	0	<10	--	0	<10	--	0	<50
MAY										
18...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
JUL										
14...	--	--	1	<10	<9	1	0	--	0	<50
AUG										
10...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
SEP										
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)
OCT								
23...	<50	0	50	27	23	--	40	100
NOV								
17...	--	--	--	--	--	--	--	--
DEC								
21...	--	--	--	--	--	--	--	--
JAN								
27...	<50	0	60	54	6	1400	20	<100
FEB								
24...	--	--	--	--	--	--	--	--
MAR								
23...	--	--	--	--	--	--	--	--
APR								
21...	--	0	90	--	7	5400	80	<100
MAY								
18...	--	--	--	--	--	--	--	--
JUN								
16...	--	--	--	--	--	--	--	--
JUL								
14...	<50	0	70	59	11	3900	10	<100
AUG								
10...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
SEP								
21...	--	--	--	--	--	--	--	--

DATE	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)	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)
OCT									
23...	98	2	350	330	20	--	--	.0	1
NOV									
17...	--	--	--	--	--	--	--	--	--
DEC									
21...	--	--	--	--	--	--	--	--	--
JAN									
27...	<99	1	90	70	20	.0	.0	.0	0
FEB									
24...	--	--	--	--	--	--	--	--	--
MAR									
23...	--	--	--	--	--	--	--	--	--
APR									
21...	--	0	270	270	0	--	--	.0	1
MAY									
18...	--	--	--	--	--	--	--	--	--
JUN									
16...	--	--	--	--	--	--	--	--	--
JUL									
14...	<99	1	240	--	20	--	--	.0	0
AUG									
10...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
SEP									
21...	--	--	--	--	--	--	--	--	--

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	SUS-PENDED SEDI-MENT (MG/L) (80154)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT								
23...	0	1	50	30	20	5.2	136	93
NOV								
17...	--	--	--	--	--	--	71	92
DEC								
21...	--	--	--	--	--	--	86	83
JAN								
27...	0	0	30	20	10	3.5	65	80
FEB								
24...	--	--	--	--	--	--	154	69
MAR								
23...	--	--	--	--	--	--	216	91
APR								
21...	--	1	70	60	10	5.9	182	92
MAY								
18...	--	--	--	--	--	--	211	98
JUN								
16...	--	--	--	--	--	--	179	98
JUL								
14...	0	0	50	50	0	5.8	181	97
AUG								
10...	--	--	--	--	--	3.9	89	96
25...	--	--	--	--	--	5.6	157	96
SEP								
21...	--	--	--	--	--	8.0	321	96

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

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

PHYTOPLANKTON

DATE	OCT 23,76	NOV 17,76	JAN 27,77	FEB 24,77	MAY 18,77
TIME	1030	0930	0915	0830	1300
TOTAL CELLS/ML	2100	2000	5600	8100	6900
DIVERSITY: DIVISION	1.5	1.1	0.7	0.6	1.4
.CLASS	1.5	1.1	0.8	0.6	1.4
..ORDER	1.7	1.2	1.1	1.4	1.8
...FAMILY	1.8	1.3	1.2	1.6	2.1
....GENUS	2.2	1.4	1.5	1.8	2.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	140	2
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	140	2
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	--	-	810	10	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	62	1	*	0
....DICTYOSPHAERIUM	--	-	1400#	71	--	-	310	4	280	4
....NEPHROCYTIUM	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	*	0	--	-	69	1
....TETRAEDRON	--	-	--	-	--	-	--	-	*	0
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	180	9	--	-	--	-	--	-	260	4
....CRUCIGENIA	--	-	--	-	200	4	--	-	--	-
....SCENEDESMUS	46	2	--	-	--	-	*	0	480	7
....TETRASTRUM	--	-	--	-	--	-	--	-	*	0
..TETRASPORALES										
...PALMELLACEAE										
....GLOEOCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	23	1	--	-	--	-	--	-	69	1
...PHACOTACEAE										
....COCCOMONAS	--	-	--	-	--	-	62	1	--	-
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	550#	26	49	3	4000#	72	5100#	63	240	3
....MELOSIRA	300	14	350#	18	450	8	*	0	960	14
..PENNALES										
...ACHNANTHACEAE										
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	*	0
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-	--	-	*	0
...DIATOMACEAE										
....DIATOMA	--	-	49	3	50	1	*	0	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	1400#	17	--	-
....FRAGILARIA	--	-	--	-	99	2	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	190	2	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-
...MERIDIONACEAE										
....MERIDION	23	1	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	23	1	25	1	50	1	62	1	*	0
...NITZSCHIACEAE										
....NITZSCHIA	23	1	--	-	50	1	190	2	*	0
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	*	0
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	99	2	--	-	--	-

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

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

PHYTOPLANKTON

DATE TIME	OCT 23,76 1030		NOV 17,76 0930		JAN 27,77 0915		FEB 24,77 0830		MAY 18,77 1300	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCCOCCALES										
...CHROCCOCCACEAE										
....ANACYSTIS	--	-	--	-	600	11	--	-	290	4
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	--	-	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	910#	43	--	-	--	-	--	-	3800#	55
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.CRYPTOPHYCEAE										
..CRYPTOMONIDALES										
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	*	0
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	74	4	--	-	--	-	--	-
....PHACUS	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	46	2	25	1	--	-	--	-	*	0
PYRRHOPHYTA (FIRE ALGAE)										
.DINOPHYCEAE										
..GYMNODINIALES										
...GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

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

PHYTOPLANKTON

DATE	JUN 16,77		JUL 14,77		AUG 10,77		AUG 25,77	
TIME	0930		0915		0845		0900	
TOTAL CELLS/ML	2400		4200		810		8800	
DIVERSITY: DIVISION	1.3		1.4		1.0		1.4	
.CLASS	1.3		1.4		1.1		1.4	
..ORDER	1.9		1.8		1.9		1.6	
...FAMILY	2.4		2.2		3.0		2.4	
....GENUS	3.1		2.6		3.2		2.8	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	16	2	75	1
...COELASTRACEAE								
....COELASTRUM	--	-	--	-	--	-	300	3
...HYDRODICTYACEAE								
....PEDIASTRUM	120	5	95	2	--	-	--	-
...MICRACTINIACEAE								
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	--	-	24	1	--	-	*	0
....DICTYOSPHAERIUM	--	-	--	-	--	-	300	3
....NEPHROCYTIUM	--	-	--	-	--	-	300	3
....OOCYSTIS	39	2	--	-	--	-	--	-
....TETRAEDRON	--	-	*	0	--	-	--	-
....TREUBARIA	*	0	--	-	--	-	--	-
....WESTELLA	--	-	--	-	--	-	220	3
...SCENEDESMACEAE								
....ACTINASTRUM	79	3	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-
....SCENEDESMUS	230	9	280	7	220#	27	110	1
....TETRASTRUM	--	-	47	1	--	-	--	-
..TETRASPORALES								
...PALMELLACEAE								
....GLOEOCYSTIS	--	-	120	3	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	94	12	--	-
...PHACOTACEAE								
....COCCOMONAS	--	-	--	-	--	-	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....COSMARIUM	--	-	*	0	24	3	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....COSCINODISCUS	20	1	*	0	--	-	260	3
....CYCLOTELLA	540#	22	590	14	--	-	94	1
....MELOSIRA	590#	24	1300#	31	63	8	1400#	16
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	--	-	--	-	100	13	--	-
....RHOICOSPHENIA	--	-	--	-	8	1	--	-
...CYMBELLACEAE								
....AMPHORA	--	-	--	-	16	2	--	-
....CYMBELLA	--	-	--	-	71	9	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	24	3	--	-
...FRAGILARIACEAE								
....ASTERIONELLA	--	-	--	-	--	-	--	-
....FRAGILARIA	310	13	120	3	--	-	94	1
....SYNEDRA	59	2	--	-	31	4	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	--	-	8	1	--	-
...MERIDIONACEAE								
....MERIDION	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	*	0	24	1	130#	16	56	1
...NITZSCHIACEAE								
....NITZSCHIA	39	2	150	4	--	-	300	3
...SURIRELLACEAE								
....SURIRELLA	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	8	1	--	-

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

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

PHYTOPLANKTON

DATE TIME	JUN 16,77 0930		JUL 14,77 0915		AUG 10,77 0845		AUG 25,77 0900	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROCCOCCALES								
...CHROCCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	250	10	--	-	--	-	110	1
....APHANIZOMENON	--	-	--	-	--	-	470	5
...OSCILLATORIACEAE								
....OSCILLATORIA	130	5	1300#	31	--	-	4000#	46
...RIVULARIACEAE								
....RAPHIDIOPSIS	--	-	83	2	--	-	620	7
EUGLENOPHYTA (EUGLENOIDS)								
.CRYPTOPHYCEAE								
..CRYPTOMONIDALES								
...CRYPTOMONODACEAE								
....CRYPTOMONAS	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	*	0	--	-	--	-	--	-
....PHACUS	*	0	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	--	-	--	-	*	0

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
SEP. 21	27	28600	25600	3000	4.11	0.138	730	POLYETHYLENE STRIP

07265450 MISSISSIPPI RIVER NEAR ARKANSAS CITY, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	480	404	446	421	345	410	272	334	415	610	414	431
2	480	387	452	426	345	434	287	328	419	570	423	426
3	476	376	438	442	362	436	281	327	429	579	431	411
4	474	357	431	431	362	388	267	327	447	561	445	405
5	473	366	447	426	385	375	281	328	461	550	438	423
6	451	366	441	464	393	372	291	321	463	491	458	432
7	442	359	438	407	439	365	267	319	485	448	452	418
8	439	352	422	426	373	358	260	317	519	439	569	431
9	435	359	398	416	394	340	264	328	574	447	468	427
10	450	366	402	421	397	329	278	332	621	450	478	424
11	439	374	411	415	444	330	282	330	641	457	480	449
12	440	385	412	402	437	315	272	340	680	458	470	464
13	456	382	432	390	433	293	271	350	692	457	458	461
14	477	381	432	386	418	282	272	361	633	450	458	418
15	495	378	426	381	454	274	278	376	629	418	479	440
16	501	389	412	370	503	268	287	368	547	403	469	414
17	487	398	392	366	418	268	290	353	530	406	453	399
18	480	411	384	348	405	274	283	346	505	411	478	394
19	494	416	377	335	418	274	270	345	466	414	474	397
20	482	402	377	335	456	276	257	350	479	406	464	390
21	464	416	390	326	434	278	256	362	476	422	455	399
22	463	471	402	327	428	264	263	375	494	423	448	406
23	463	412	396	338	418	258	270	380	540	420	440	413
24	447	421	391	324	414	258	287	390	551	427	442	400
25	440	426	382	313	405	265	290	382	588	427	447	366
26	441	437	384	307	413	276	299	375	569	421	433	361
27	445	450	393	312	405	288	309	374	568	428	419	361
28	440	456	398	319	405	295	319	375	574	418	407	369
29	414	452	403	329	---	289	329	382	601	414	412	372
30	400	436	408	339	---	286	332	392	615	430	398	375
31	411	---	411	339	---	278	---	404	---	435	406	---
MEAN	457	400	411	374	411	313	282	354	540	455	451	409

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0	12.0	7.0	2.0	2.0	7.0	15.0	20.0	26.0	28.0	29.0	28.0
2	21.0	12.0	7.0	2.0	1.5	7.0	16.0	20.0	26.0	28.0	28.0	28.0
3	23.0	12.0	7.0	2.0	4.0	8.0	15.0	20.0	27.0	28.0	28.0	27.5
4	23.0	12.0	6.0	3.0	3.0	8.0	15.0	20.0	27.0	28.5	28.0	28.0
5	23.0	11.0	7.0	4.0	3.0	8.5	15.0	20.0	27.5	29.0	28.0	28.0
6	21.0	12.0	7.0	5.0	3.0	8.0	14.5	21.0	27.0	29.0	28.0	27.5
7	20.5	12.0	6.0	3.0	3.0	8.0	15.0	22.0	27.0	29.0	29.0	27.0
8	20.0	11.0	5.0	3.0	4.0	8.0	15.0	23.0	26.0	29.5	28.0	28.0
9	19.0	12.0	5.0	3.0	4.0	8.0	15.0	22.0	26.0	29.0	29.0	28.0
10	19.0	12.5	6.0	2.0	5.0	9.0	16.0	21.0	26.0	29.0	29.0	27.5
11	19.0	12.0	6.0	2.0	5.0	10.0	16.0	21.0	27.0	29.0	29.0	27.0
12	19.0	10.5	6.0	1.0	5.5	10.5	16.5	21.0	28.0	29.0	28.0	27.0
13	20.0	10.0	5.5	1.0	5.0	10.5	16.5	21.0	27.0	30.0	28.0	27.0
14	20.0	9.0	5.0	2.0	5.0	10.5	17.0	22.0	26.5	30.0	28.0	26.0
15	20.0	9.5	5.0	1.0	5.0	12.0	17.0	22.5	26.5	30.0	29.0	26.0
16	19.0	9.0	5.0	1.0	5.0	12.0	17.5	22.0	26.0	30.0	29.0	26.0
17	17.0	9.0	5.0	0.5	5.0	12.0	18.0	22.0	26.5	30.0	29.0	26.0
18	19.0	9.0	5.5	0.5	5.0	13.0	18.0	23.0	26.0	30.0	28.0	26.0
19	17.0	9.5	6.0	0.0	5.0	13.0	18.0	23.5	27.0	30.0	27.0	26.0
20	16.0	10.0	6.0	0.0	5.0	13.0	18.5	23.5	27.0	30.0	28.0	25.0
21	15.0	9.0	5.5	0.5	5.0	13.0	18.5	23.5	27.5	30.0	28.0	25.0
22	15.0	9.0	5.0	0.0	5.0	13.0	19.0	24.0	27.5	29.0	28.0	25.0
23	16.0	8.5	5.0	0.5	6.5	12.0	19.0	24.0	27.5	30.0	28.0	25.0
24	17.0	8.5	5.0	1.0	6.5	13.0	19.0	24.0	28.0	30.0	28.0	25.0
25	16.0	9.5	6.0	1.0	7.0	13.0	18.0	24.0	29.0	30.0	28.0	25.0
26	15.0	10.0	5.0	1.5	9.0	14.0	18.5	24.5	29.0	30.0	28.5	25.0
27	14.0	10.0	5.0	2.5	8.0	13.5	18.5	25.0	28.0	29.0	28.0	25.0
28	14.0	8.0	5.0	3.0	8.0	14.0	19.0	25.5	28.0	30.0	28.0	25.0
29	13.0	5.0	5.0	1.5	---	15.0	19.0	27.0	28.0	29.0	28.0	24.0
30	13.0	6.0	5.0	3.0	---	16.0	20.0	27.0	28.5	29.0	27.5	25.0
31	12.5	---	3.0	2.0	---	15.0	---	26.5	---	29.0	27.5	---
MEAN	18.0	10.0	5.5	2.0	5.0	11.0	17.0	23.0	27.0	29.5	28.0	26.5

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, Hydrologic Unit 11140106, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DIS-CHARGE (CFS) (00060)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
11...	9827	9827	2220	1260	8.3	17.0	15	9.4	4.4	40	380
NOV											
03...	9827	9827	3370	1170	8.3	14.0	25	10.8	3.3	440	--
DEC											
06...	9827	9827	5110	1760	8.1	8.0	5	10.8	3.1	100	--
JAN											
18...	9827	9827	12500	747	7.9	.0	50	12.7	4.8	--	170
FEB											
09...	9827	9827	7560	314	7.9	6.0	60	11.7	3.8	1800	--
MAR											
09...	9827	9827	9170	315	7.8	13.0	80	9.8	2.3	--	--
APR											
13...	9827	9827	18700	426	7.8	19.0	60	8.2	1.6	--	67
MAY											
11...	9827	9827	6020	1170	8.2	21.0	20	8.2	2.6	460	--
JUN											
08...	9827	9827	--	--	--	--	--	--	--	40	--
08...	9827	9827	28000	1860	8.1	25.0	60	7.9	1.8	--	--
JUL											
13...	9827	9827	--	--	--	--	--	--	--	100	--
13...	9827	9827	3750	1660	8.2	29.0	15	7.8	--	--	--
15...	9827	9827	--	--	--	--	--	--	--	--	--
AUG											
09...	9827	9827	3300	1480	8.2	29.5	15	7.4	3.5	50	--
SEP											
07...	9827	9827	2830	1550	8.3	27.5	5	7.5	4.0	760	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
11...	240	--	70	--	51	240	6.7	170	--	139	180
NOV											
03...	--	--	--	--	--	--	--	--	--	--	150
DEC											
06...	--	--	--	--	--	--	--	--	--	--	210
JAN											
18...	89	--	42	--	16	81	4.9	99	0	81	67
FEB											
09...	--	--	--	--	--	--	--	--	--	--	34
MAR											
09...	--	--	--	--	--	--	--	--	--	--	31
APR											
13...	--	17	--	3.5	--	40	4.2	--	--	--	49
MAY											
11...	--	--	--	--	--	--	--	--	--	--	150
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	260
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	30	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	200
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

07336860 RED RIVER NEAR FOREMAN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
11...	290	782	54	.31	--	--	.12	<3	<10	<3	20	1100
NOV												
03...	220	711	32	.53	--	--	.07	--	--	--	10	2600
DEC												
06...	350	1030	61	.33	--	--	.04	--	--	--	<10	840
JAN												
18...	120	448	375	.30	--	--	.03	<3	<10	<3	<10	5600
FEB												
09...	35	214	235	--	--	--	.26	--	--	--	<10	9700
MAR												
09...	39	--	--	.74	--	--	.17	--	--	--	50	6500
APR												
13...	62	274	137	.20	<.10	.15	.17	<10	<10	7	10	4800
MAY												
11...	210	763	122	.03	.01	.11	.13	--	--	--	20	5000
JUN												
08...	350	--	150	.15	.01	.14	.18	--	--	--	<10	6500
JUL												
13...	340	1050	28	.01	.00	.09	.07	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	<10	<10	<10	630
AUG												
09...	--	957	54	<.05	<.05	.09	.13	--	--	--	20	1400
SEP												
07...	320	1030	42	<.05	<.05	--	.14	--	--	--	80	2400

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
11...	20	130	<.5	20	--	--	--	--	--	--	--	--
NOV												
03...	--	240	--	20	--	--	--	--	--	--	--	--
DEC												
06...	--	81	--	20	--	--	--	--	--	--	--	--
JAN												
16...	220	360	--	60	.00	.00	.00	.00	.00	.00	.00	0
FEB												
09...	--	250	--	50	--	--	--	--	--	--	--	--
MAR												
09...	--	290	--	60	--	--	--	--	--	--	--	--
APR												
13...	--	210	--	50	--	--	--	--	--	--	--	--
MAY												
11...	--	280	--	40	--	--	--	--	--	--	--	--
JUN												
08...	--	220	--	40	.00	.00	.00	.00	.00	.00	.00	0
JUL												
13...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
15...	20	190	--	20	--	--	--	--	--	--	--	--
AUG												
09...	--	160	--	<10	--	--	.00	--	.00	.00	.00	0
SEP												
07...	--	340	--	30	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11140106, 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.--41 years, 11,930 ft^3/s (338 m^3/s), 8,643,000 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, 106,000 ft^3/s (3,000 m^3/s) Mar. 30, gage height, 20.73 ft (6.318 m); minimum daily, 1,370 ft^3/s (38.8 m^3/s) Oct. 19, 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3930	4170	3030	1980	5930	5940	61500	9280	35000	7600	4440	3200
2	4000	3470	3120	1910	5350	5190	55400	9140	32500	7580	3440	2980
3	3620	3420	3130	2430	5420	5950	54200	9000	34900	7270	2740	2620
4	3370	3330	3430	3660	5770	14000	53900	8400	32400	5720	2520	3050
5	3550	3200	4920	5350	7070	23000	47100	7540	38500	6580	2730	3720
6	3910	2750	5700	5250	8830	20000	39600	7060	37700	5330	2950	3430
7	4710	2350	5340	4040	10900	17000	36400	6910	33400	3290	3100	3390
8	4340	2070	5190	4510	11800	14700	32900	5950	27700	2890	3100	3260
9	3490	1820	4690	5120	10200	12100	30000	5160	27000	2670	4200	2930
10	3250	1920	4290	4920	7880	9800	26900	5040	26800	2960	3500	2500
11	3330	1530	6950	5340	6940	8450	25000	7000	20000	3060	3000	2230
12	2840	1710	11300	5940	11700	8170	23300	6260	15000	3690	2700	2290
13	2240	1710	11900	6250	16000	8480	23200	4240	10000	4270	2600	2740
14	1910	2240	10300	7210	17000	7970	22800	6890	9500	4960	3000	2970
15	1710	3070	9900	8340	14900	6920	21900	8870	9000	3620	3500	2910
16	1570	2790	9400	10100	16000	6860	23400	6970	9000	2630	3800	2680
17	1450	2990	7990	11700	16000	7830	22400	6160	9500	3000	3800	2480
18	1380	3330	9150	13100	12700	9800	22600	6380	10000	3500	3000	3800
19	1370	3450	8610	13500	9800	10200	23800	6300	10000	3500	2500	4940
20	1370	3560	7260	13000	8440	7010	27700	5930	8840	3320	2000	4420
21	1420	3590	5750	11600	7740	4690	31900	6240	8780	3120	1800	4170
22	2830	3690	5650	11000	6640	3680	37100	7360	8530	2820	2400	4030
23	3320	3650	4340	10200	5990	3710	36000	13200	7940	2620	3000	3650
24	3800	3490	3420	8440	5320	3350	32100	21200	6950	2900	3200	2890
25	4090	3340	3650	7030	4900	2870	27300	26700	6810	3510	3500	2650
26	4860	2570	3240	6550	5130	2630	22500	27300	7250	3530	5060	3430
27	4950	2390	5020	6570	5080	3540	18000	29100	7140	3450	3670	4030
28	4300	2710	4100	6840	6330	12700	14100	36300	6400	3540	3370	4290
29	3870	3390	3380	7350	---	70300	11200	36500	6600	3120	4230	4360
30	3550	3610	2700	7540	---	101000	9250	32800	7000	3120	4200	4120
31	4070	---	2270	6920	---	80000	---	33300	---	4270	3350	---
TOTAL	99330	87320	179790	223810	257290	498090	913450	408480	510940	123440	102600	100360
MEAN	3204	2911	5800	7220	9189	16070	30450	13180	17030	3982	3310	3345
MAX	4950	4170	11900	13500	17000	101000	61500	36500	38500	7600	5500	4940
MIN	1370	1530	2270	1910	4900	2630	9250	4240	6400	2620	1800	2230
AC-FT	197000	173200	356600	443900	510300	988000	1812000	810200	1013000	244800	203500	199100

CAL YR 1976 TOTAL 2339770 MEAN 6393 MAX 39500 MIN 1370 AC-FT 4641000
WTR YR 1977 TOTAL 3504900 MEAN 9602 MAX 101000 MIN 1370 AC-FT 6952000

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, Hydrologic Unit 11140109, 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).

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.--29 years, 293 ft^3/s (8.30 m^3/s) 212,300 acre-ft/yr (262 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, 7,650 ft^3/s (217 m^3/s) Mar. 27, gage height, 16.12 ft (4.913 m); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Aug. 19, 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	419	234	51	133	196	3830	59	13	18	17	1.4
2	38	292	184	48	122	176	1950	54	11	14	14	1.3
3	31	218	150	47	316	2880	439	48	10	12	74	1.2
4	28	169	129	47	996	4690	347	43	9.1	10	51	1.2
5	1840	139	111	49	672	3990	330	36	8.3	8.2	37	1.3
6	2620	115	161	53	450	2450	279	32	7.6	7.0	8.5	1.5
7	623	100	712	63	332	609	233	28	7.1	6.1	5.0	1.9
8	285	87	586	69	257	394	192	41	6.9	5.3	5.5	1.8
9	185	79	402	168	210	305	161	79	6.5	5.0	5.2	1.8
10	130	74	315	399	178	245	138	80	6.0	15	5.6	1.7
11	95	75	2130	364	397	336	116	52	5.6	10	5.1	1.6
12	75	78	2930	275	2460	737	100	38	5.2	7.1	4.7	1.6
13	61	69	1540	360	1620	621	87	31	5.1	5.6	4.4	2.4
14	50	66	761	1960	770	440	78	27	5.1	4.3	3.3	2.6
15	44	67	513	1540	498	328	71	24	8.9	3.6	2.6	2.6
16	42	66	376	818	357	249	65	20	17	3.3	2.1	2.5
17	38	63	282	501	278	194	85	18	25	3.2	1.6	2.6
18	34	58	222	373	228	166	1690	16	32	3.0	1.3	2.7
19	38	56	182	295	188	145	1650	14	29	2.6	1.0	2.7
20	50	359	154	229	155	123	1420	17	23	2.7	1.0	2.4
21	52	813	128	191	132	106	1100	19	18	2.7	2.8	5.1
22	53	492	110	162	118	92	719	22	15	2.6	28	4.0
23	47	322	98	183	156	80	474	72	13	2.7	7.0	3.0
24	64	233	88	296	195	73	338	54	11	3.7	5.7	2.2
25	2130	182	82	391	169	69	232	40	10	4.1	5.0	2.3
26	2030	854	76	369	174	68	168	30	11	4.3	3.8	2.5
27	703	1350	70	316	239	1890	127	24	15	5.8	2.8	2.3
28	389	693	66	260	228	6420	102	20	26	6.8	2.2	2.2
29	277	433	62	203	---	5390	84	18	33	9.8	1.8	2.0
30	495	305	59	167	---	4980	70	16	24	13	1.6	1.8
31	610	---	55	150	---	4520	---	15	---	14	1.4	---
TOTAL	13206	8326	12968	10397	12028	42962	16675	1087	417.4	215.5	292.0	66.2
MEAN	426	278	418	335	430	1386	556	35.1	13.9	6.95	9.42	2.21
MAX	2620	1350	2930	1960	2460	6420	3830	80	33	18	74	5.1
MIN	28	56	55	47	118	68	65	14	5.1	2.6	1.0	1.2
AC-FT	26190	16510	25720	20620	23860	85220	33070	2160	828	427	579	131

CAL YR 1976	TOTAL	72809.5	MEAN 199	MAX 3460	MIN 2.6	AC-FT	144400	
WTR YR 1977	TOTAL	118640.1	MEAN 325	MAX 6420	MIN 1.0	AC-FT	235300	

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, Hydrologic Unit 11140109, 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 1976 TO SEPTEMBER 1977

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)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)
OCT											
11...	9827	9827	49	6.8	15.0	60	8.5	.7	780	16	3
NOV											
03...	9827	9827	45	6.9	12.0	40	9.7	1.1	440	--	--
DEC											
06...	9827	9827	54	7.0	8.0	25	10.7	2.3	480	--	--
JAN											
18...	9827	9827	44	7.0	1.0	35	12.9	2.4	20	10	0
FEB											
09...	9827	9827	52	6.8	4.0	40	12.0	2.3	60	--	--
MAR											
09...	9827	9827	44	6.7	11.0	40	10.5	1.4	--	--	--
APR											
13...	9827	9827	69	7.0	19.0	30	8.4	1.2	--	8	--
MAY											
11...	9827	9827	62	7.2	20.0	15	7.5	1.2	620	--	--
JUN											
08...	9827	9827	104	7.4	24.0	40	5.7	.9	<20	--	--
JUL											
13...	9827	9827	104	7.3	24.5	35	5.9	--	--	--	--
13...	9827	9827	--	--	--	--	--	--	170	--	--
15...	9827	9827	--	--	--	--	--	--	--	--	--
AUG											
09...	9827	9827	74	7.3	28.0	40	5.8	1.5	370	--	--
SEP											
07...	9827	9827	148	7.3	24.5	15	7.2	5.6	1100	--	--

DATE	TOTAL CAL-CIUM (CA) (MG/L) (00916)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	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)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
11...	--	6.0	--	<1.0	--	--	16	--	13	9.0
NOV										
03...	--	--	--	--	--	--	--	--	--	4.0
DEC										
06...	--	--	--	--	--	--	--	--	--	5.0
JAN										
18...	--	2.0	--	1.0	4.5	.9	12	0	10	4.0
FEB										
09...	--	--	--	--	--	--	--	--	--	6.0
MAR										
09...	--	--	--	--	--	--	--	--	--	2.0
APR										
13...	1.6	--	.8	--	6.9	1.1	--	--	--	4.0
MAY										
11...	--	--	--	--	--	--	--	--	--	2.0
JUN										
08...	--	--	--	--	--	--	--	--	--	4.0
JUL										
13...	--	--	--	--	--	--	--	--	--	6.0
13...	--	--	--	--	--	--	--	--	--	--
15...	--	--	2.0	--	--	--	--	--	--	--
AUG										
09...	--	--	--	--	--	--	--	--	--	4.0
SEP										
07...	--	--	--	--	--	--	--	--	--	--

07339850 ROLLING FORK NEAR HORATIO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
11...	9.0	60	25	.34	--	--	.07	<3	10	<3	20	1600
NOV												
03...	5.0	54	--	1.0	--	--	.01	--	--	--	--	--
DEC												
06...	6.5	41	13	.41	--	--	.04	--	--	--	--	--
JAN												
18...	5.5	54	15	.14	--	--	.04	<3	<10	<3	<10	620
FEB												
09...	8.0	51	8	--	--	--	.04	--	--	--	--	--
MAR												
09...	5.0	--	--	.39	--	--	.05	--	--	--	--	--
APR												
13...	8.0	54	15	.20	<.10	.13	.03	<10	<10	<3	<10	540
MAY												
11...	7.5	52	6	.11	.01	.14	.03	--	--	--	--	--
JUN												
08...	15	--	12	.06	.01	.14	.01	--	--	--	--	--
JUL												
13...	15	78	10	.03	.00	.10	.04	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	<10	<10	<10	690
AUG												
09...	--	59	12	.05	<.05	.14	.05	--	--	--	--	--
SEP												
07...	25	87	12	<.05	<.05	--	.12	--	--	--	--	--

DATE	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											
11...	<10	100	--	--	--	--	--	--	--	--	--
NOV											
03...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	80	<27	20	--	--	--	--	--	--	--	--
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
13...	--	110	30	--	--	--	--	--	--	--	--
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL											
13...	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
15...	10	140	10	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	.00	--	.00	.00	.00	0
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11140109, 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 mi² (6,926 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 858: 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. 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 hm³), and since June 1, 1969, by Pine Creek Lake (Oklahoma), 73.3 mi (117.9 km) upstream, capacity, 465,800 acre-ft (574 hm³).

AVERAGE DISCHARGE.--47 years, 3,789 ft³/s (107 m³/s), 2,745,000 acre-ft/yr (3,380 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft³/s (3,400 m³/s) Mar. 30, 1945, gage height, 37.70 ft (11.491 m), from rating curve extended above 93,000 ft³/s (2,630 m³/s); minimum, 1.0 ft³/s (0.028 m³/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 ft³/s (3,510 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,400 ft³/s (1,000 m³/s) Mar. 28, gage height, 29.90 ft (9.114 m); minimum daily, 181 ft³/s (5.13 m³/s) Sept. 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	423	2030	2650	1050	2650	1640	19100	927	521	2070	328	559
2	423	2760	3100	632	1880	1850	13100	812	606	1100	899	860
3	373	2060	3510	459	2120	8730	8170	2440	440	456	923	879
4	264	1590	2110	1910	5050	22700	7190	2500	501	282	1070	380
5	1930	1470	1330	1870	4910	21100	9370	1360	842	250	615	229
6	6580	1580	1220	1810	3870	15600	11400	1460	472	419	844	256
7	4630	755	4860	2050	3240	8210	12700	1270	1100	942	515	223
8	1720	529	5790	1720	4780	5620	13200	1240	541	1050	287	227
9	1290	1080	5020	2490	4100	5160	13300	4820	270	702	247	306
10	814	1190	4490	6150	2870	5410	13300	7470	239	321	279	264
11	559	1030	7240	6320	3000	5620	13200	3180	852	232	491	208
12	1500	2090	10800	6260	10800	7630	13100	1820	470	448	319	198
13	2510	2540	10200	6210	12800	5790	12800	1150	479	688	326	257
14	1530	898	9040	10100	7840	3670	11300	1190	1030	757	286	267
15	744	473	6860	11800	4780	2990	8410	744	528	1230	229	238
16	626	1370	5900	8840	5300	3640	5380	600	785	1350	239	231
17	375	1650	5640	8070	6140	4040	2490	552	1040	492	620	245
18	269	2350	4710	8640	6070	4140	3810	849	1170	240	414	245
19	1440	1140	2170	7810	4220	3090	9420	990	604	840	227	208
20	2100	786	1490	5040	2260	1820	10900	1150	361	883	220	196
21	3040	2000	2130	4360	1810	1410	12400	1560	640	732	226	187
22	1880	1740	2220	3780	2550	1790	12100	1880	433	362	218	181
23	2040	1700	2070	2310	2700	1630	11300	1860	619	601	463	201
24	685	1760	1650	2630	2300	1170	9010	1580	405	368	374	316
25	988	1730	951	4610	2210	1310	4050	1490	462	230	246	276
26	5420	1050	786	4240	2230	1450	4240	1350	424	757	219	209
27	4420	2410	720	3140	1590	3550	3600	1110	743	453	521	232
28	2970	2990	679	2670	1390	27200	3210	1180	1720	460	362	470
29	2290	2030	761	2510	---	31900	1720	784	1740	343	229	319
30	2550	3950	727	2180	---	26400	1470	520	1900	581	253	212
31	2360	---	698	2110	---	23000	---	754	---	446	262	---
TOTAL	58743	50731	111522	133771	115460	259260	274740	50592	21937	20085	12751	9079
MEAN	1895	1691	3597	4315	4124	8363	9158	1632	731	648	411	303
MAX	6580	3950	10800	11800	12800	31900	19100	7470	1900	2070	1070	879
MIN	264	473	679	459	1390	1170	1470	520	239	230	218	181
AC-FT	116500	100600	221200	265300	229000	514200	544900	100300	43510	39840	25290	18010

CAL YR 1976 TOTAL 737757 MEAN 2016 MAX 12300 MIN 204 AC-FT 1463000
WTR YR 1977 TOTAL 1118671 MEAN 3065 MAX 31900 MIN 181 AC-FT 2219000

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.--
SEPCIFIC 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 1976 TO SEPTEMBER 1977

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)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	HARD-NESS (CA,MG) (MG/L) (00900)
OCT												
11...	9827	9827	555		73	7.1	16.0	55	8.2	1.3	680	26
NOV												
03...	9827	9827	2110		54	7.0	13.0	15	9.7	1.6	1000	--
03...	9827	9827		--	279	--	12.0	--	8.7	--	--	--
04...	1028	1028	1380		--	--	13.5	--	--	--	--	--
DEC												
06...	9827	9827	1150		60	7.0	7.0	20	10.5	3.8	280	--
14...	1028	1028	6880		--	--	9.0	--	--	--	--	--
JAN												
18...	9827	9827		--	--	--	--	--	--	--	88	--
25...	1028	1028	4600		--	--	5.5	--	--	--	--	--
FEB												
09...	9827	9827		--	--	--	--	--	--	--	150	--
MAR												
04...	1028	1028	22700		--	--	11.5	--	--	--	--	--
09...	9827	9827	5160		50	6.9	11.0	40	10.3	1.4	--	--
APR												
13...	9827	9827	12800		42	6.7	15.0	55	9.2	1.2	--	5
20...	1028	1028	11300		--	--	19.0	--	--	--	--	--
MAY												
11...	9827	9827	2820		51	6.9	20.0	50	7.1	2.5	860	--
JUN												
07...	1028	1028	1650		--	--	27.0	--	--	--	--	--
08...	9827	9827		--	--	--	--	--	--	--	190	--
08...	9827	9827	483		57	6.6	23.0	20	8.1	1.7	--	--
JUL												
05...	9827	9827		--	--	--	--	--	--	--	--	--
13...	9827	9827		--	--	--	--	--	--	--	140	--
13...	9827	9827	900		72	7.0	26.5	20	6.9	--	--	--
15...	9827	9827		--	--	--	--	--	--	--	--	--
15...	1028	1028	1650		--	--	29.5	--	--	--	--	--
AUG												
09...	9827	9827	247		84	6.9	27.5	20	6.4	.5	400	--
31...	1028	1028	260		--	--	28.5	--	--	--	--	--
SEP												
07...	9827	9827	221		84	6.9	25.0	5	8.2	1.9	500	--

07340000 LITTLE RIVER NEAR HORATIO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)	BICARBONATE (HCO3) (MG/L) (00440)	ALKALINITY AS CACO3 (MG/L) (00410)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT										
11...	7	--	8.0	--	1.0	6.1	1.4	23	19	9.0
NOV										
03...	--	--	--	--	--	--	--	--	--	2.0
03...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	5.0
14...	--	--	--	--	--	--	--	--	--	--
JAN										
18...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	4.0
APR										
13...	--	.9	--	.4	--	3.4	1.2	--	--	6.0
20...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	4.0
JUN										
07...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	4.0
JUL										
05...	--	--	--	1.0	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	4.0
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	--	--	--	--	--	--	5.0
31...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--

07340000 LITTLE RIVER NEAR HORATIO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
11...	12	73	13	.44	--	--	.07	<3	10	<3	10	1200
NOV												
03...	4.0	45	6	.45	--	--	.01	--	--	--	--	--
DEC												
06...	7.5	49	10	.29	--	--	.05	--	--	--	--	--
JAN												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
09...	5.0	--	--	.17	--	--	.05	--	--	--	--	--
APR												
13...	4.0	49	23	.38	<.10	.18	.04	<10	<10	<3	10	640
MAY												
11...	5.5	66	20	.16	.01	.17	.07	--	--	--	--	--
JUN												
08...	7.5	--	10	.09	.01	.11	.01	--	--	--	--	--
JUL												
05...	--	--	--	--	--	--	--	--	--	--	--	440
13...	11	54	4	.12	.01	.19	.04	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	<10	<10	10	--
AUG												
09...	--	62	7	.09	<.05	.21	.03	--	--	--	--	--
SEP												
07...	14	53	6	.12	<.05	--	.07	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
11...	10	120	<.5	30	--	--	--	--	--	--	--	--
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
18...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
13...	--	72	--	30	--	--	--	--	--	--	--	--
MAY												
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL												
05...	10	97	--	<10	--	--	--	--	--	--	--	--
13...	--	--	--	--	.00	.00	.00	.00	.00	.00	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11140109, 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.--10 years, 207 ft^3/s (5.86 m^3/s), 31.44 in/yr (799 mm/yr), 150,000 acre-ft/yr (185 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.--Peak discharges above base of 5,000 ft^3/s (140 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 3	1245	8,860	251	11.69	3.563
Mar. 27	2145	*21,400	606	16.54	5.041

Minimum discharge, 8.5 ft^3/s (0.24 m^3/s) Sept. 2, 3, gage height, 1.72 ft (0.524 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	150	100	33	73	180	213	90	17	18	82	9.9
2	13	110	91	32	65	157	241	80	16	17	53	9.3
3	12	90	78	31	265	4240	227	75	16	16	34	9.0
4	11	72	68	30	338	1320	236	70	15	14	25	9.1
5	10	56	61	30	237	530	214	60	16	14	20	9.9
6	60	47	253	34	183	324	186	55	16	19	18	14
7	52	40	349	39	148	230	170	50	15	16	16	12
8	47	36	223	45	125	178	150	45	14	14	15	12
9	44	33	163	122	110	148	130	40	14	13	14	12
10	42	32	371	197	98	128	120	40	13	12	13	11
11	39	31	1630	193	305	433	110	35	13	15	13	10
12	37	31	820	166	899	584	95	30	16	13	18	10
13	36	29	444	446	430	339	90	30	48	12	16	14
14	35	30	290	1170	286	237	80	25	25	11	15	22
15	35	30	213	547	203	183	70	25	21	11	14	18
16	37	30	165	325	160	144	70	25	67	11	16	15
17	37	30	132	230	136	122	90	22	93	11	18	13
18	35	30	111	184	117	114	1140	22	47	10	15	12
19	38	29	94	160	99	99	917	21	31	10	13	13
20	40	42	82	124	85	85	1330	45	24	10	13	12
21	23	76	71	102	76	76	1350	63	21	17	13	11
22	19	88	63	87	72	69	549	53	19	33	12	10
23	19	74	59	94	95	63	317	37	18	38	14	10
24	22	65	55	107	99	61	213	30	18	20	18	11
25	350	60	52	112	87	60	163	26	20	20	14	22
26	220	110	49	114	243	58	148	24	33	89	12	23
27	110	220	46	111	330	7720	130	22	45	112	11	15
28	160	180	44	101	231	5340	120	21	30	73	11	286
29	135	135	41	85	---	924	105	20	23	51	11	153
30	210	110	38	79	---	442	95	19	20	69	11	66
31	225	---	35	76	---	277	---	18	---	76	10	---
TOTAL	2167	2096	6291	5206	5595	24915	9069	1218	784	865	578	854.2
MEAN	69.9	69.9	203	168	200	804	302	39.3	26.1	27.9	18.6	28.5
MAX	350	220	1630	1170	899	7720	1350	90	93	112	82	286
MIN	10	29	35	30	65	58	70	18	13	10	10	9.0
CFSM	.78	.78	2.27	1.88	2.24	8.99	3.38	.44	.29	.31	.21	.32
IN.	.90	.87	2.62	2.17	2.33	10.37	3.77	.51	.33	.36	.24	.36
AC-FT	4300	4160	12480	10330	11100	49420	17990	2420	1560	1720	1150	1690

CAL YR 1976 TOTAL 39604.0 MEAN 108 MAX 2340 MIN 10 CFSM 1.21 IN 16.48 AC-FT 78550
WTR YR 1977 TOTAL 59638.2 MEAN 163 MAX 7720 MIN 9.0 CFSM 1.82 IN 24.82 AC-FT 118300

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, Hydrologic Unit 11140109, 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 mi² (702 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. Outlet works consist 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 hm³) and is conservation storage of which 20,510 acre-ft (25.3 hm³) is reserved for water supply, and 8,800 acre-ft (10.9 hm³) 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 hm³) 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 hm³)
Top of flood-control pool	569.0 (173.43 m)	221,780 (273 hm³)
Top of spillway crest	527.0 (160.63 m)	78,580 (96.9 hm³)
Top of conservation pool	502.0 (153.01 m)	33,030 (40.7 hm³)
Top of inactive pool	464.5 (141.58 m)	3,717 (4.58 hm³)
Bottom of lowest outlet	458.5 (139.75 m)	2,158 (2.66 hm³)

COOPERATION.--Records furnished by Corps of Engineers.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 118,600 acre-ft (146 hm³) Mar. 30, 1977, elevation, 541.91 ft (165.174 m); minimum since initial filling to conservation pool, 28,490 acre-ft (35.1 hm³) Aug. 31, 1976, elevation, 498.53 ft (151.952 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 118,600 acre-ft (146 hm³) Mar. 30, elevation, 541.91 ft (165.174 m); minimum, 28,870 acre-ft (35.6 hm³) Oct. 3, 4, elevation, 498.83 ft (152.043 m).

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

498	27,830	525	74,020
502	33,030	535	98,690
507	40,320	540	112,900
512	48,470	542	118,900
518	59,440		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28880	46050	41220	33330	33170	36040	115600	32730	33670	33680	33140	31470
2	28880	44640	40520	33390	33240	35650	112700	32700	33610	33580	33220	31390
3	28870	43150	39780	33460	34620	63200	108400	32840	33570	33470	33270	31280
4	28980	41510	38930	33530	36130	71420	104700	32940	33540	33250	33270	31220
5	30760	39820	38100	33580	36380	73090	103300	33030	33510	33270	33270	31190
6	31730	38140	37650	33710	36250	72870	102300	33110	33470	33200	33220	31160
7	32110	36430	38080	33780	35800	71920	97750	33180	33390	33130	33160	31110
8	32300	34740	38140	33780	35180	70030	92650	33570	33330	33060	33090	31070
9	32430	33930	37910	34320	34450	66930	87330	33740	33270	32990	33030	31000
10	32500	33870	37860	35100	33620	62980	82030	33620	33210	32990	32950	30930
11	32540	34000	45700	35040	35110	62260	76600	33560	33140	32940	32880	30860
12	32560	34070	49620	34420	41370	64440	71310	33530	33130	32870	32870	30770
13	32560	34150	51020	35070	43930	64680	66040	33500	33170	32790	32870	30790
14	32560	34220	51570	40980	44780	63320	60670	33490	33200	32700	32830	30740
15	32560	34290	51660	43180	43520	60220	55360	33430	33270	32610	32770	30700
16	32530	34320	50830	43760	41960	55940	50120	33400	33760	32530	32690	30650
17	32490	34350	48730	43470	41590	51090	46620	33350	34240	32430	32640	30600
18	32420	34380	45570	42190	40320	43540	51910	33310	34270	32340	32560	30550
19	32460	34450	42320	40800	38670	41550	55470	33240	34210	32230	32470	30490
20	32460	35580	39050	39290	36950	36740	59070	33350	34040	32160	32390	30420
21	32470	36680	35830	37700	35200	33750	62280	33490	33870	32140	32330	30350
22	32500	37050	34250	35990	34250	33380	59950	33620	33690	32070	32260	30270
23	32600	36740	33870	34480	34390	33490	58210	33720	33500	32070	32190	30190
24	34390	36280	33670	33750	34490	33540	54880	33750	33800	32070	32110	30170
25	43100	35840	33440	33620	34500	33560	50830	33760	33800	32040	32030	30120
26	45720	39880	33220	33510	34900	33610	45930	33780	33560	32040	31950	30120
27	46390	42240	33070	33320	36040	77150	40800	33780	33750	32450	31850	30120
28	46220	42960	33130	33180	36390	112300	35450	33780	33860	32660	31800	31390
29	45950	42480	33200	33220	---	118000	33070	33760	33870	32770	31720	32310
30	46250	41720	33280	33240	---	118600	32900	33750	33800	32870	31640	32600
31	46600	---	33290	33220	---	118200	---	33710	---	32980	31550	---
MAX	46600	46050	51660	43760	44780	118600	115600	33780	34270	33680	33270	32600
MIN	28870	33870	33070	33180	33170	33380	32900	32700	33130	32040	31550	30120
(†)	510.90	507.90	502.19	502.14	504.38	541.76	501.90	502.49	502.56	501.96	500.90	501.68
(‡)	+17720	-4880	-8430	-70	+3170	+81810	-85300	+810	+90	-820	-1430	+1050

CAL YR 1976 MAX 58960 MIN 21210 ‡ +13090
WTR YR 1977 MAX 118600 MIN 28870 ‡ + 3720

† 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, Hydrologic Unit 11140109, 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).

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 except for period of no gage-height record, Jan. 27 to Mar. 2, which are fair. Records do not include about 2.5 ft^3/s (0.071 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.--39 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, 16,400 ft^3/s (464 m^3/s) Mar. 28, gage height, 15.84 ft (4.828 m); minimum daily, 29 ft^3/s (0.82 m^3/s) Oct. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	624	900	65	230	600	1920	269	33	79	51	39
2	46	1000	660	65	200	700	2610	235	33	87	46	38
3	44	990	630	65	600	5400	2540	103	33	83	44	38
4	37	964	630	65	600	1780	2570	76	33	76	43	37
5	29	945	630	65	500	1350	2150	68	34	70	42	43
6	89	938	630	65	680	1540	565	62	33	55	43	44
7	71	927	800	70	660	1430	2560	58	31	46	43	34
8	66	913	665	110	650	1510	2900	299	31	45	42	33
9	59	752	637	220	650	1660	2990	114	31	45	41	33
10	55	146	632	450	630	2380	2950	122	31	81	40	33
11	49	67	1120	400	600	2370	2900	149	31	60	39	33
12	46	46	1120	600	2500	899	2860	96	33	49	39	33
13	44	42	986	1000	1000	1280	2850	77	38	47	41	35
14	43	41	825	1000	500	1370	2890	72	34	46	41	34
15	42	38	752	900	1300	1980	2840	67	35	46	40	33
16	43	37	827	800	1300	2360	2790	62	41	47	43	32
17	43	46	1200	900	1000	2710	2820	59	89	46	44	33
18	41	51	1900	1100	850	2660	1710	55	119	45	43	33
19	49	48	1880	1300	1000	2590	2290	64	140	44	41	33
20	50	354	1870	1300	1200	2520	2650	63	132	45	44	32
21	47	346	1830	1250	1200	2140	2650	51	125	45	45	31
22	43	195	1330	1230	1100	686	2680	48	119	52	43	31
23	35	500	400	1260	500	160	2550	43	113	48	43	32
24	45	520	270	1180	400	134	2460	40	106	47	44	32
25	2800	540	230	723	370	147	2520	39	79	50	44	33
26	657	1000	220	700	370	161	2770	37	69	46	42	33
27	281	1500	220	430	370	2290	2800	36	66	49	42	32
28	611	560	150	420	450	6670	2870	37	58	51	43	49
29	584	550	110	330	---	1310	2150	37	51	49	41	60
30	725	1000	75	270	---	1560	357	37	73	50	41	37
31	658	---	70	230	---	1450	---	34	---	47	39	---
TOTAL	7478	15682	24199	18563	21410	56017	74162	2609	1874	1676	1317	1073
MEAN	241	523	781	599	765	1807	2472	84.2	62.5	54.1	42.5	35.8
MAX	2800	1500	1900	1300	2500	6670	2990	299	140	87	51	60
MIN	29	37	70	65	200	134	357	34	31	44	39	31
AC-FT	14830	31110	48000	36820	42470	111100	147100	5170	3720	3320	2610	2130

CAL YR 1976 TOTAL 128945 MEAN 352 MAX 2800 MIN 29 AC-FT 255800
WTR YR 1977 TOTAL 226060 MEAN 619 MAX 6670 MIN 29 AC-FT 448400

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, Hydrologic Unit 11140109, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
11...	9827	9827	51	48	7.2	15.0	25	8.4	1.6	260	22
NOV											
03...	9827	9827	1060	41	7.1	14.0	30	9.7	1.8	400	--
23...	9827	9827	--	--	--	--	--	--	--	--	--
DEC											
06...	9827	9827	67	50	7.3	8.0	15	10.5	2.0	400	--
JAN											
18...	9827	9827	96	42	7.3	1.0	20	12.5	2.2	60	10
FEB											
09...	9827	9827	70	35	7.0	6.0	20	12.5	2.3	20	--
MAR											
09...	9827	9827	1870	33	6.8	10.0	40	11.1	1.5	--	--
APR											
13...	9827	9827	3040	35	6.7	14.0	60	10.0	1.8	--	6
MAY											
11...	9827	9827	162	44	7.0	19.0	20	7.9	1.7	580	--
JUN											
08...	9827	9827	33	51	7.2	24.0	30	7.6	2.2	130	--
JUL											
13...	9827	9827	50	44	7.1	27.5	15	6.4	--	--	--
15...	9827	9827	--	--	--	--	--	--	--	--	--
18...	9827	9827	--	--	--	--	--	--	--	420	--
AUG											
09...	9827	9827	44	48	7.2	26.5	15	6.6	.8	820	--
SEP											
07...	9827	9827	35	53	7.2	24.0	5	6.3	1.5	4600	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
11...	5	--	5.0	--	2.0	3.6	1.1	21	--	17	5.0
NOV											
03...	--	--	--	--	--	--	--	--	--	--	4.0
23...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	4.0
JAN											
18...	0	--	3.0	--	.0	3.8	1.0	15	0	12	3.0
FEB											
09...	--	--	--	--	--	--	--	--	--	--	4.0
MAR											
09...	--	--	--	--	--	--	--	--	--	--	2.0
APR											
13...	--	.7	--	.6	--	3.2	1.1	--	--	--	4.0
MAY											
11...	--	--	--	--	--	--	--	--	--	--	3.0
JUN											
08...	--	--	--	--	--	--	--	--	--	--	4.0
JUL											
13...	--	--	--	--	--	--	--	--	--	--	4.0
15...	--	--	--	1.0	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	3.0
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

07340520 COSSATOT RIVER NEAR LOCKESBURG, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
11...	4.5	53	21	.10	--	--	.07	<3	<10	<3	40	880
NOV												
03...	4.0	46	6	1.1	--	--	.02	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
06...	4.0	35	12	.28	--	--	.03	--	--	--	--	--
JAN												
18...	4.5	47	15	.17	--	--	.18	<3	<10	<3	<10	320
FEB												
09...	4.0	36	9	--	--	--	.03	--	--	--	--	--
MAR												
09...	3.5	--	--	.28	--	--	.06	--	--	--	--	--
APR												
13...	3.5	47	24	.25	<.10	.17	.05	<10	<10	<3	10	730
MAY												
11...	4.0	49	10	.11	.01	.18	.05	--	--	--	--	--
JUN												
08...	4.5	--	8	.06	.01	.21	.01	--	--	--	--	--
JUL												
13...	4.0	36	3	.05	.00	.09	.03	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	<10	<10	<10	260
AUG												
09...	--	37	7	<.05	<.05	.12	.04	--	--	--	--	--
SEP												
07...	4.0	44	7	<.05	<.05	--	.09	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
11...	<10	150	<.5	20	--	--	--	--	--	--	--	--
NOV												
03...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
23...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
18...	160	<27	--	10	--	--	--	--	--	--	--	--
FEB												
09...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
13...	--	110	--	30	--	--	--	--	--	--	--	--
MAY												
11...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL												
13...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
15...	10	24	--	<10	--	--	--	--	--	--	--	--
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11140109, 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 dt (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, 49,070 acre-ft (60.5 hm³) Mar. 7, 1977, elevation, 537.88 ft (163.946 m); minimum since initial filling to conservation pool, 26,180 acre-ft (32.3 hm³) Oct. 22, 23, 1976, elevation, 523.34 ft (159.514 m).
EXTREMES FOR CURRENT YEAR.--Maximum contents, 49,070 acre-ft (60.5 hm³) Mar. 7, elevation, 537.88 ft (163.946 m); minimum, 26,180 acre-ft (32.3 hm³) Oct. 22, 23, elevation, 523.34 ft (159.514 m).

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

523	25,750	534	41,980
527	31,030	538	49,300
530	35,450		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26350	30360	30710	29830	30640	30580	47430	30750	29610	29180	29300	28230
2	26340	30150	30580	29830	30470	30300	46950	30160	29570	29150	29290	28210
3	26320	29920	30470	29830	30830	41840	46590	29920	29540	29110	29290	28180
4	26310	29780	30300	29780	31180	46540	46580	29920	29530	29070	29290	28140
5	26410	29720	30160	29770	31320	47960	46460	29920	29520	29000	29270	28130
6	26390	29720	30140	29770	31390	48850	46150	29920	29460	28990	29230	28130
7	26360	29720	30110	29840	31410	49050	45380	29920	29410	28950	29200	28120
8	26350	29720	29990	29880	31410	48570	43190	30120	29330	28910	29160	28080
9	26320	29690	29890	30220	31350	47850	42940	30290	29290	28930	29140	28060
10	26320	29690	29910	30330	31410	47130	41660	30260	29220	28950	29100	28050
11	26310	29680	30920	29920	33050	47320	40040	30230	29190	28950	29040	28000
12	26300	29690	31810	29690	35330	47680	38390	30160	29200	28930	29020	27930
13	26300	29700	31920	30190	36260	47690	36820	30100	29200	28880	28980	27980
14	26280	29700	31270	31550	36540	47260	35260	30010	29160	28840	28930	27980
15	26280	29700	30540	32240	36160	46390	33840	29930	29160	28800	28910	27950
16	26260	29740	30110	32550	35560	45220	32600	29870	29260	28760	28870	27930
17	26220	29760	30060	32200	34880	43920	31740	29800	29340	28730	28840	27910
18	26190	29770	29990	31210	34000	42520	32430	29740	29370	28660	28790	27880
19	26240	29780	29890	30190	32900	41150	33320	29720	29380	28640	28750	27870
20	26210	30670	29800	29620	31780	39740	34950	29810	29370	28570	28700	27840
21	26200	31200	29690	29610	30640	38340	38000	29840	29340	28530	28660	27800
22	26180	31170	29680	29650	29810	36930	39810	29840	29310	28530	28620	27780
23	26190	30720	29700	29810	30070	35560	39860	29840	29290	28530	28600	27750
24	26560	30470	29730	30060	30230	34120	39640	29850	29230	28610	28560	27720
25	29490	30410	29800	30220	30370	32980	39030	29840	29200	28620	28560	27710
26	30260	31600	29800	30370	30720	32170	37250	29830	29220	28750	28500	27710
27	30610	32230	29840	30500	30960	37090	35450	29800	29230	28950	28450	27740
28	30710	32420	29850	30560	30950	45710	33820	29740	29230	29030	28440	28140
29	30500	32180	29850	30600	---	47710	32530	29730	29230	29150	28380	28390
30	30500	31160	29850	30640	---	48360	31620	29690	29190	29160	28310	28480
31	30500	---	29850	30640	---	48090	---	29680	---	29180	28280	---
MAX	30710	32420	31920	32550	36540	49050	47430	30750	29610	29180	29300	28480
MIN	26180	29680	29680	29610	29810	30300	31620	29680	29160	28530	28280	27710
(†)	526.62	527.09	526.15	526.72	526.94	537.37	527.42	526.02	525.66	525.65	524.98	525.13
(‡)	+4140	+660	-1310	+790	+310	+17140	-16470	-1940	-490	-10	-900	+200

CAL YR 1976 MAX 40590 MIN 20260 ‡ +9910
WTR YR 1977 MAX 49050 MIN 26180 ‡ +2120

† 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, Hydrologic Unit 11140109, 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 mi² (321 km²).

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.--39 years, 193 ft³/s (5.47 m³/s), 139,800 acre-ft/yr (172 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,200 ft³/s (1,680 m³/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 ft³/s (1,190 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,340 ft³/s (37.9 m³/s) Mar. 31, gage height, 8.41 ft (2.563 m); minimum daily, 5.7 ft³/s (0.16 m³/s) Oct. 3, 4, 10-15, 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	202	497	38	120	350	686	541	11	12	18	12
2	6.7	198	173	38	170	560	677	414	10	12	15	8.9
3	5.7	197	171	38	190	800	410	132	19	12	13	8.7
4	5.7	155	170	36	185	210	328	30	19	12	13	8.7
5	7.2	67	170	27	180	40	199	56	20	12	13	9.2
6	6.2	35	178	29	180	30	327	32	19	12	13	9.3
7	5.7	34	175	28	175	50	547	32	19	12	12	9.1
8	6.0	34	173	28	175	270	745	54	19	12	12	9.4
9	6.0	34	172	45	150	500	865	45	19	12	12	8.9
10	5.7	34	163	124	95	570	859	56	19	17	12	8.7
11	5.7	33	161	360	300	570	986	54	19	12	12	8.7
12	5.7	22	149	282	180	165	1080	54	19	12	12	8.7
13	5.7	22	350	192	150	300	998	53	22	12	12	10
14	5.7	23	694	206	290	480	991	52	19	12	12	11
15	5.7	22	689	187	450	723	908	52	20	12	12	8.9
16	6.0	22	464	181	500	780	768	43	27	12	12	8.7
17	6.0	22	185	180	690	945	713	42	24	12	12	8.8
18	5.7	22	159	846	677	933	121	38	20	12	12	8.8
19	10	22	158	810	800	923	292	13	19	12	12	8.8
20	9.0	33	157	420	794	916	392	17	19	12	12	8.7
21	8.7	28	129	210	788	910	209	15	19	12	12	8.7
22	8.7	165	69	120	612	901	168	13	15	12	12	8.7
23	9.0	376	40	88	319	899	310	13	13	13	12	8.7
24	61	277	39	94	181	897	304	12	13	12	13	8.9
25	186	161	39	96	178	751	574	12	13	13	13	9.1
26	27	186	39	93	181	567	1100	12	15	41	12	8.9
27	15	172	39	90	178	472	1170	11	14	21	12	8.7
28	87	167	38	90	257	213	1160	11	13	17	12	18
29	262	328	38	88	---	48	844	11	13	14	12	10
30	209	801	38	86	---	189	547	11	12	14	12	8.8
31	202	---	38	86	---	531	---	11	---	13	12	---
TOTAL	1228.5	3894	5754	5230	9055	16493	19278	1942	522	427	387	282.5
MEAN	39.6	130	186	169	323	532	643	62.6	17.4	13.8	12.5	9.42
MAX	262	801	694	840	800	945	1170	541	27	41	18	18
MIN	5.7	22	38	27	95	30	121	11	10	12	12	8.7
AC-FT	2440	7720	11410	10370	17960	32710	38240	3850	1040	847	768	560

CAL YR 1976 TOTAL 41789.3 MEAN 114 MAX 1040 MIN 5.7 AC-FT 82890
WTR YR 1977 TOTAL 64493.0 MEAN 177 MAX 1170 MIN 5.7 AC-FT 127900

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, Hydrologic Unit 11140109, 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.--14 years, 385 ft^3/s (10.9 m^3/s), 278,900 acre-ft/yr (344 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,700 ft^3/s (1,830 m^3/s) May 14, 1969, 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 25.6 ft (7.83 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,940 ft^3/s (282 m^3/s) Mar. 4, gage height, 16.52 ft (5.035 m); minimum daily, 6.2 ft^3/s (0.18 m^3/s) Oct. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	260	829	28	110	501	826	647	16	19	107	13
2	16	243	229	29	178	519	1130	645	15	18	74	13
3	13	234	184	30	366	3810	812	308	14	17	27	12
4	8.4	227	177	30	665	6740	1230	115	18	17	21	9.3
5	11	128	172	30	364	1530	944	84	21	17	18	8.8
6	11	67	187	29	285	459	640	86	21	16	17	9.8
7	15	43	243	47	251	316	545	65	20	16	17	11
8	11	41	205	49	233	681	842	173	20	15	16	10
9	9.2	39	185	157	225	837	942	190	19	15	15	10
10	8.4	39	176	322	157	820	956	111	19	17	15	10
11	7.8	40	297	363	430	918	947	96	19	22	14	9.4
12	7.6	39	545	438	3510	1040	1120	88	20	18	14	9.2
13	7.2	28	298	257	1460	632	1040	84	27	15	14	14
14	6.9	28	735	713	571	548	1020	80	100	15	14	16
15	6.9	28	757	491	668	678	1010	77	35	14	14	17
16	6.4	28	725	334	793	676	864	75	77	14	14	14
17	6.3	27	255	283	776	997	837	61	520	14	13	11
18	6.2	26	169	835	758	1030	1380	57	232	14	12	11
19	8.1	27	156	869	895	1010	756	51	80	14	13	11
20	11	32	150	850	890	991	1160	58	45	13	13	10
21	18	89	144	283	876	978	1910	59	32	14	13	9.6
22	14	73	85	133	854	965	544	35	28	13	18	9.3
23	13	393	58	129	713	953	579	27	24	14	18	9.3
24	15	454	39	244	638	952	504	23	20	14	18	9.5
25	1520	213	38	248	343	938	465	21	19	13	18	14
26	442	243	37	177	327	681	1020	20	21	32	19	12
27	112	348	35	155	459	976	1160	19	51	119	15	11
28	58	259	33	141	316	3490	1150	18	45	36	14	140
29	236	220	32	124	---	2580	1090	18	25	28	14	166
30	326	717	31	114	---	495	666	17	21	21	14	33
31	303	---	30	113	---	686	---	17	---	20	13	---
TOTAL	3250.4	4633	7236	8045	18111	38827	28089	3425	1624	644	636	643.2
MEAN	105	154	233	260	647	1252	936	110	54.1	20.8	20.5	21.4
MAX	1520	717	829	869	3510	6740	1910	647	520	119	107	166
MIN	6.2	26	30	28	110	316	465	17	14	13	12	8.8
AC-FT	6450	9190	14350	15960	35920	77010	55710	6790	3220	1280	1260	1280

CAL YR 1976 TOTAL 87570.4 MEAN 239 MAX 5450 MIN 6.2 AC-FT 173700
WTR YR 1977 TOTAL 115163.6 MEAN 316 MAX 6740 MIN 6.2 AC-FT 228400

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, Hydrologic Unit 11110201, 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 prior to October 1974 and after September 1975 available from Corps of Engineers, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
06...	9827	9827	4690	--	519	7.9	18.0	25	6.9	1.2	1800	--
NOV												
03...	9827	9827	--	17200	507	8.0	15.0	20	9.0	1.1	2400	130
DEC												
07...	9827	9827	--	15000	418	8.2	5.0	5	11.5	3.4	1900	--
JAN												
05...	9827	9827	--	8210	308	8.0	4.0	15	12.7	3.0	730	84
FEB												
02...	9827	9827	--	8730	356	8.3	1.0	40	13.3	3.1	2300	--
MAR												
07...	9827	9827	--	8890	351	8.0	4.0	30	10.9	2.4	--	--
APR												
06...	9827	9827	--	29200	--	7.7	14.0	60	9.8	1.5	--	70
MAY												
04...	9827	9827	--	18200	368	7.8	20.0	--	--	--	130	--
JUN												
06...	9827	9827	57200	--	1070	8.1	28.0	50	7.4	1.5	1900	--
JUL												
12...	9827	9827	52000	--	449	8.0	29.0	40	7.7	2.1	1500	--
12...	9827	9827	--	--	--	8.0	--	40	--	--	--	--
AUG												
09...	9827	9827	13500	--	585	--	31.0	--	7.0	1.5	330	--
SEP												
13...	9827	9827	36900	--	720	8.0	26.0	40	7.8	--	1700	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	32
NOV											
03...	40	--	38	--	8.0	55	4.1	110	0	90	34
DEC											
07...	--	--	--	--	--	--	--	--	--	--	32
JAN											
05...	19	--	25	--	5.0	26	2.8	79	0	65	19
FEB											
02...	--	--	--	--	--	--	--	--	--	--	29
MAR											
07...	--	--	--	--	--	--	--	--	--	--	29
APR											
06...	--	16	--	5.9	--	42	3.8	--	--	--	28
MAY											
04...	--	--	--	--	--	--	--	--	--	--	24
JUN											
06...	--	--	--	--	--	--	--	--	--	--	59
JUL											
12...	--	18	--	7.0	--	44	--	--	--	--	34
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	39
SEP											
13...	--	--	--	--	--	--	--	--	--	--	45

07252406 ARKANSAS RIVER AT OZARK DAM AT OZARK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
06...	80	305	25	.27	--	--	.06	--	--	--	<10	650
NOV												
03...	74	298	8	.21	--	--	.07	<3	<10	<3	<10	870
DEC												
07...	54	236	13	.11	--	--	.03	--	--	--	40	4000
JAN												
05...	38	176	16	<.10	--	--	.07	<3	<10	<3	40	520
FEB												
02...	54	210	12	.13	--	--	.06	--	--	--	<10	660
MAR												
07...	52	216	8	.11	--	--	.06	--	--	--	10	780
APR												
06...	63	237	36	.16	<.10	.13	.09	<10	<10	--	430	3700
MAY												
04...	53	222	35	.11	.02	.13	.10	--	--	--	80	2300
JUN												
06...	250	--	42	.28	.01	.10	.07	--	--	--	130	2500
JUL												
12...	67	--	--	.31	.01	.10	.31	--	<10	30	230	--
AUG												
09...	96	342	33	.11	<.05	.18	.10	--	--	--	70	--
SEP												
13...	130	--	14	--	--	.08	.16	--	--	--	520	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	30	91	--	20	--	--	--	--	--	--	--	--
NOV												
03...	10	60	<.5	<10	--	--	--	--	--	--	--	--
DEC												
07...	480	210	--	40	.00	.00	.00	.00	.00	.00	.00	0
JAN												
05...	90	70	--	20	--	--	--	--	--	--	--	--
FEB												
02...	280	81	--	20	--	--	--	--	--	--	--	--
MAR												
07...	<10	48	--	<10	--	--	--	--	--	--	--	--
APR												
06...	50	200	--	280	--	--	--	--	--	--	--	--
MAY												
04...	30	120	--	60	--	--	--	--	--	--	--	--
JUN												
06...	40	150	--	110	--	--	--	--	--	--	--	--
JUL												
12...	60	--	--	390	--	--	--	--	--	--	--	--
AUG												
09...	<10	120	--	20	--	--	--	--	--	--	--	--
SEP												
13...	30	160	--	140	--	--	--	--	--	--	--	--

07341300 MILLWOOD LAKE NEAR ASHDOWN, AR

LOCATION.--Lat 33°41'28", long 93°57'53", in NW¼ sec.26, T.12 S., R.28 W., Little River County, Hydrologic Unit 11140109, 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, 499,800 acre-ft (616 hm³) Apr. 1, elevation, 267.10 ft (81.412 m); minimum, 100,800 acre-ft (124 hm³) Sept. 24, elevation, 254.97 ft (77.715 m).

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

254	82.5	264	369.1
259	199.2	268	541.2

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206400	218300	213800	208500	202000	201800	497500	221100	205600	211400	213500	204100
2	205800	218000	212000	210000	203800	205000	489400	217100	205000	212300	212300	201400
3	205300	218900	211400	210000	208200	222900	475200	214400	204100	211700	210800	205600
4	204700	218000	210800	210000	214400	250200	457800	212000	204400	210000	209400	206700
5	209100	215300	208800	208800	218900	279400	430900	211400	204400	207900	207000	206100
6	212600	216500	209400	207900	223200	296700	404300	208800	205000	207000	205300	195200
7	218600	216200	205800	207900	222000	283500	377000	207000	205600	207000	203500	174400
8	217100	214400	209400	207900	220400	254400	354400	206400	207300	208200	202600	154300
9	212600	214100	210600	210300	219200	229600	335400	205300	205800	214400	202000	139600
10	208200	214400	215900	212000	215600	222300	300200	210800	205800	208800	202600	128400
11	205300	213200	222900	215300	225300	224400	297800	212900	204400	208200	202300	119000
12	204100	212000	235300	212900	247000	229000	272000	212300	205600	209400	201800	112300
13	207300	212900	243800	211700	275300	235900	254800	213200	205600	209400	201500	108100
14	209100	213200	242500	210000	289700	231500	241300	213200	206400	210300	201800	105400
15	208500	210000	239700	215000	278000	219200	237200	212900	210000	210800	201800	101400
16	203800	208200	232800	215300	265300	206400	247000	212000	214100	210800	201500	101800
17	198000	207900	229300	212300	254800	203200	258400	210600	215900	211700	202000	101800
18	194000	209400	229000	208500	250200	207300	256400	209700	215900	212300	201800	101800
19	191500	210800	228400	207300	246700	209400	273000	209400	216200	210800	201800	104200
20	189500	211400	218600	210000	239400	207300	278400	210000	214700	210800	201200	103200
21	188900	212300	210300	214100	228100	204100	281800	210300	212900	210000	203200	102800
22	189500	213200	210600	216200	219200	204100	281500	212900	211400	210800	202900	102400
23	188100	211400	213500	217100	216800	205000	279100	213200	210000	210000	203800	101800
24	187800	212300	214100	215600	213200	205300	274000	211400	208800	210800	204400	101800
25	185600	210800	213800	216200	205000	207600	261000	209100	208200	211200	204400	102200
26	190600	212900	210800	217700	200000	212600	243800	205800	210000	210800	203200	101800
27	200000	214700	208800	215600	193400	220400	228700	205000	208800	210800	202900	101800
28	202900	216800	206100	213500	198000	256400	221100	205800	209700	210800	204400	103800
29	207900	215000	205000	209100	---	320000	219800	206400	210000	210600	205000	103800
30	211400	212900	209400	206400	---	399000	222000	206400	210300	210600	204100	102400
31	215900	---	207300	202600	---	465100	---	205800	---	210300	204100	---
MAX	218600	218900	243800	217700	289700	465100	497500	221100	216200	214400	213500	206700
MIN	185600	207900	205000	202600	193400	201800	219800	205000	204100	207000	201200	101400
(†)	259.57	259.47	259.28	259.12	258.96	266.32	259.77	259.23	259.38	259.38	259.17	255.05
(‡)	+9200	-3000	-5600	-4700	-4600	+267100	-243100	-16200	+4500	0	-6200	-101700

CAL YR 1976 MAX 254100 MIN 185600 ‡ -8000
WTR YR 1977 MAX 497500 MIN 101400 ‡ -104300

† 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", in NW¼ sec.26, T.12 S., R.28 W., Little River County, Hydrologic Unit 11140109, 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.--11 years, 6,593 ft^3/s (187 m^3/s), 4,777,000 acre-ft/yr (5,890 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, 34,500 ft^3/s (977 m^3/s) Apr. 3, 6; minimum daily, 160 ft^3/s (4.53 m^3/s) at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	689	3420	6610	372	4650	1810	16700	4960	1000	1610	912	160
2	689	4330	6610	372	2870	1940	33500	4960	1000	1400	1280	168
3	689	4750	5930	372	2480	6720	34500	4960	727	1400	1890	180
4	470	5260	5310	2000	4150	17800	34200	4960	475	1400	1890	180
5	213	4240	5310	3780	5490	25100	33200	4240	475	1140	1890	180
6	2330	3370	5310	3780	6980	28000	34500	3860	475	722	1890	6230
7	4760	3370	5310	3210	8180	30400	34200	2830	287	432	1890	13100
8	4860	3370	6370	2830	8180	27800	33400	2830	165	432	867	11000
9	4650	3370	7200	2830	8180	20900	32500	4690	165	432	160	8060
10	4600	3370	6510	4710	8180	14000	31100	6140	165	432	160	5540
11	2770	3370	5450	7780	7480	11500	32500	6140	165	432	160	4300
12	1310	3370	5450	10500	8320	11800	31400	4300	165	432	160	3720
13	912	3370	9200	11800	8940	9870	27000	2320	165	432	160	3720
14	1170	3370	13900	12700	13600	13100	24200	1820	165	432	160	3560
15	2550	3370	13900	14100	18400	15200	20300	1820	165	432	160	1600
16	3690	3370	13900	14100	18200	14400	10100	1820	165	432	160	160
17	3690	2790	11200	14100	17400	10600	5720	1820	680	432	160	160
18	3690	2340	8710	14100	14300	8730	10600	1820	1400	432	160	160
19	3690	2340	8710	14100	11800	8730	6100	1820	1400	432	160	160
20	3690	2340	8710	10400	11500	8730	15900	1820	1400	432	160	160
21	3480	2340	8620	6440	11400	8730	17300	1820	1400	432	160	160
22	3450	3110	5250	6440	11000	6230	20800	1820	1400	432	160	160
23	3450	3820	2710	6440	9940	4600	21100	2640	1400	432	160	160
24	3450	3820	2740	6440	9200	3110	21000	3390	1130	432	160	160
25	3450	3820	2690	6440	8490	2060	20300	3390	912	712	160	160
26	3450	3820	2680	7110	7080	1840	19300	3160	912	912	160	160
27	3450	3820	2660	7720	7080	1840	18000	2010	912	912	160	160
28	3450	3820	2660	7270	3770	1950	14300	1000	912	912	160	160
29	3030	5270	1680	6440	---	3800	8740	1000	1440	912	160	982
30	2340	6610	608	6440	---	2510	4960	1000	1890	912	160	963
31	2340	---	171	6440	---	1980	---	1000	---	912	160	---
TOTAL	86452	109130	192069	221556	257240	325780	667420	92160	23112	21632	16189	65723
MEAN	2789	3638	6196	7147	9187	10510	22250	2973	770	698	522	2191
MAX	4860	6610	13900	14100	18400	30400	34500	6140	1890	1610	1890	13100
MIN	213	2340	171	372	2480	1810	4960	1000	165	432	160	160
AC-FT	171500	216500	381000	439500	510200	646200	1324000	182800	45840	42910	32110	130400

CAL YR 1976 TOTAL 1340980 MEAN 3664 MAX 21300 MIN 171 AC-FT 2660000
WTR YR 1977 TOTAL 2078463 MEAN 5694 MAX 34500 MIN 160 AC-FT 4123000

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, Hydrologic Unit 11140201, 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 at 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. Oct. 1, 1949, to Dec. 31, 1976 at datum 224.94 ft (68.562 km) higher.

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.--50 years, 17,660 ft^3/s (500 m^3/s), 12,790,000 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, elevation, 261.39 ft (79.672 m), present site and datum; maximum elevation, 262.3 ft (79.95 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, 104,000 ft^3/s (2,950 m^3/s) Mar. 31, elevation, 245.01 ft (74.679 m); minimum daily, 2,100 ft^3/s (59.5 m^3/s) Jan. 3, Aug. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3800	6100	7800	2800	14000	7700	83000	13000	42000	9700	4200	4000
2	4000	6900	7200	2400	12000	6700	82000	12000	43000	9400	3800	3600
3	3900	6800	6900	2100	11000	9100	78000	11000	44000	9800	3600	3200
4	3500	7400	6300	2400	10000	24000	73000	10000	46000	8900	3500	3000
5	3500	6800	6900	4600	11000	43000	64000	10000	48000	7200	3600	3400
6	4200	5600	8200	5700	13000	46000	60000	10000	44000	6000	3900	5000
7	6500	5000	8500	5200	15000	44000	57000	9500	33000	4900	4100	12000
8	7700	4600	8600	4600	18000	45000	55000	9600	30000	4300	3800	12000
9	7400	4300	9500	4800	18000	42000	54000	9000	27000	3400	3600	10000
10	6800	4100	9100	6000	15000	35000	51000	8900	24000	3300	4000	8300
11	5400	3900	8300	8700	13000	21000	49000	8600	20000	3500	3900	6600
12	4300	3800	12000	12000	17000	22000	50000	7800	17000	3700	3400	5500
13	3600	3900	16000	15000	23000	19000	47000	7600	15000	4100	3000	5400
14	3200	3900	19000	16000	27000	20000	44000	7400	13000	4200	3100	5300
15	3300	4500	20000	19000	30000	23000	41000	7400	12000	3900	3600	4900
16	3800	4800	20000	23000	29000	22000	37000	7300	11000	3300	3900	3700
17	3700	4600	19000	25000	29000	20000	33000	7000	11000	3100	3900	2800
18	3500	4600	16000	28000	26000	18000	29000	6200	11000	3400	3500	2900
19	3500	4800	17000	29000	20000	19000	33000	5400	11000	3600	2800	4000
20	3600	4900	17000	27000	17000	17000	43000	4800	11000	3600	2300	4500
21	3500	5100	15000	21000	15000	13000	47000	4900	11000	3400	2100	4200
22	4400	5600	12000	20000	14000	10000	54000	7000	9300	3300	2400	4100
23	5600	6500	8300	20000	13000	7000	53000	8900	8600	3100	3100	3900
24	8000	6400	7000	19000	11000	5900	48000	11000	8500	3100	3300	3500
25	7100	6000	6800	16000	11000	4900	43000	14000	8200	3700	3300	3000
26	7400	5600	7500	15000	9200	3700	39000	18000	7900	4300	4800	3100
27	8000	5000	8500	16000	10000	4200	35000	22000	7500	4100	4800	3600
28	7800	4700	7700	16000	9800	10000	27000	30000	7100	4000	4000	4000
29	7100	5500	5600	15000	---	64000	20000	37000	7600	3800	4300	4400
30	5700	7100	3600	15000	---	100000	15000	40000	9300	3500	5000	4900
31	5400	---	2800	15000	---	104000	---	42000	---	3700	4600	---
TOTAL	159200	158800	328100	431300	461000	830200	1444000	407300	598000	143300	113200	148800
MEAN	5135	5293	10580	13910	16460	26780	48130	13140	19930	4623	3652	4960
MAX	8000	7400	20000	29000	30000	104000	83000	42000	48000	9800	5000	12000
MIN	3200	3800	2800	2100	9200	3700	15000	4800	7100	3100	2100	2800
AC-FT	315800	315000	650800	855500	914400	1647000	2864000	807900	1186000	284200	224500	295100

CAL YR 1976	TOTAL	3376200	MEAN	9225	MAX	46000	MIN	2000	AC-FT	6697000
WTR YR 1977	TOTAL	5223200	MEAN	14310	MAX	104000	MIN	2100	AC-FT	10360000

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, Hydrologic Unit 11140302, 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
OCT											
05...	810	810	--	2.0	200	7.6	24.0	--	7.6	--	--
05...	810	810	--	5.0	200	7.5	24.0	--	7.4	--	--
05...	810	810	--	10	200	7.5	24.0	--	7.3	--	--
11...	9827	9827	2300	--	368	7.4	19.0	150	2.1	22	6.5
12...	810	810	--	2.0	200	7.3	20.5	--	9.0	--	--
12...	810	810	--	5.0	200	6.9	20.0	--	9.0	--	--
12...	810	810	--	10	200	6.9	20.0	--	9.0	--	--
12...	810	810	--	15	100	6.9	20.0	--	9.0	--	--
20...	810	810	--	2.0	100	6.6	17.0	--	9.2	--	--
20...	810	810	--	5.0	200	6.6	17.0	--	8.9	--	--
20...	810	810	--	10	200	6.6	17.0	--	8.8	--	--
20...	810	810	--	15	200	6.6	17.0	--	8.7	--	--
25...	810	810	--	2.0	200	7.0	16.5	--	9.3	--	--
25...	810	810	--	5.0	200	7.0	16.5	--	9.2	--	--
25...	810	810	--	10	200	7.0	16.5	--	9.2	--	--
25...	810	810	--	15	200	7.1	16.5	--	9.2	--	--
NOV											
02...	810	810	--	2.0	200	7.2	14.0	--	10.2	--	--
02...	810	810	--	5.0	200	7.2	13.5	--	10.7	--	--
02...	810	810	--	10	200	7.2	13.5	--	10.2	--	--
03...	9827	9827	--	--	--	7.6	--	70	--	--	3.2
09...	810	810	--	2.0	200	7.4	13.5	--	10.1	--	--
09...	810	810	--	5.0	200	7.4	13.0	--	10.1	--	--
09...	810	810	--	10	200	7.4	13.0	--	10.2	--	--
09...	810	810	--	15	200	7.5	13.0	--	10.2	--	--
15...	810	810	--	2.0	200	7.8	9.5	--	9.8	--	--
15...	810	810	--	5.0	200	7.8	9.5	--	9.7	--	--
22...	810	810	--	2.0	100	7.2	10.0	--	10.1	--	--
22...	810	810	--	5.0	100	7.2	10.0	--	9.9	--	--
29...	810	810	--	2.0	100	6.9	9.0	--	10.5	--	--
29...	810	810	--	5.0	100	6.8	9.0	--	10.4	--	--
DEC											
06...	810	810	--	2.0	200	7.0	9.0	--	9.3	--	--
06...	9827	9827	223	--	237	7.4	8.0	45	10.2	86	2.6
13...	810	810	--	2.0	200	7.0	8.5	--	11.9	--	--
13...	810	810	--	5.0	200	7.0	8.5	--	11.9	--	--
13...	810	810	--	10	200	7.0	8.5	--	11.9	--	--
13...	810	810	--	15	200	7.0	8.5	--	11.9	--	--
20...	810	810	--	2.0	200	7.2	9.0	--	9.8	--	--
20...	810	810	--	5.0	200	7.2	9.0	--	9.8	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
DEC							
20...	810	810	10	200	7.2	9.0	9.7
20...	810	810	15	200	7.2	9.0	9.6
30...	810	810	2.0	100	6.8	7.5	8.5
30...	810	810	5.0	100	6.9	6.5	8.6
30...	810	810	10	100	6.9	6.0	8.9
JAN							
07...	810	810	2.0	100	7.2	5.0	11.9
11...	810	810	2.0	100	8.2	2.5	12.0
11...	810	810	5.0	100	8.1	2.5	12.0
11...	810	810	10	100	8.1	2.5	12.0
17...	810	810	2.0	200	6.6	3.0	12.9
17...	810	810	5.0	200	6.6	3.0	12.8
17...	810	810	10	200	6.7	3.0	12.8
17...	810	810	15	200	6.7	3.0	12.8
18...	9827	9827	--	--	--	--	--
24...	810	810	2.0	200	7.4	4.0	13.2
24...	810	810	5.0	200	7.5	3.5	13.3
24...	810	810	10	200	7.6	3.5	13.4
24...	810	810	15	200	7.6	3.5	13.5
FEB							
01...	810	810	2.0	200	7.3	4.5	11.8
01...	810	810	5.0	200	7.4	4.5	11.8
01...	810	810	10	200	7.5	4.0	11.9
01...	810	810	15	200	7.5	4.0	12.1
08...	810	810	2.0	200	7.2	6.5	10.5
08...	810	810	5.0	200	7.2	6.0	10.4
08...	810	810	10	200	7.3	6.0	10.6
08...	810	810	15	200	7.3	6.0	10.7
09...	9827	9827	--	--	--	--	--
15...	810	810	2.0	200	6.6	9.0	9.7
15...	810	810	5.0	200	6.6	9.0	9.6
15...	810	810	10	200	6.7	9.0	9.6
15...	810	810	15	200	6.7	9.0	9.8
15...	810	810	20	200	6.7	9.0	9.9
22...	810	810	2.0	100	7.0	12.5	7.8
22...	810	810	5.0	100	7.1	11.5	8.1
22...	810	810	10	100	7.1	11.5	8.3
22...	810	810	15	100	7.1	11.5	8.4
22...	810	810	20	100	7.1	11.0	8.5
MAR							
08...	810	810	2.0	200	6.9	14.5	8.3

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	DISCHARGE (CFS) (00060)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
MAR											
08...	810	810	--	5.0	200	6.9	14.0	--	8.2	--	--
08...	810	810	--	10	200	6.9	14.0	--	8.3	--	--
08...	810	810	--	15	200	7.0	14.0	--	8.3	--	--
08...	810	810	--	20	205	7.2	13.5	--	8.4	--	--
09...	9827	9827	9300	--	182	7.1	13.0	120	5.8	55	1.7
15...	810	810	--	2.0	100	6.4	18.0	--	7.0	--	--
15...	810	810	--	5.0	100	6.5	17.5	--	7.1	--	--
15...	810	810	--	10	100	6.6	17.5	--	7.3	--	--
15...	810	810	--	15	100	6.6	17.0	--	7.5	--	--
21...	810	810	--	2.0	100	6.8	17.0	--	7.7	--	--
21...	810	810	--	5.0	100	6.8	17.0	--	7.8	--	--
21...	810	810	--	10	100	6.8	17.0	--	7.8	--	--
21...	810	810	--	15	100	6.8	17.0	--	7.8	--	--
29...	810	810	--	2.0	200	6.5	18.5	--	6.1	--	--
29...	810	810	--	5.0	200	6.4	18.0	--	5.9	--	--
29...	810	810	--	10	200	6.4	18.0	--	6.0	--	--
29...	810	810	--	15	200	6.4	18.0	--	6.0	--	--
29...	810	810	--	20	200	6.5	18.0	--	6.0	--	--
APR											
04...	810	810	--	2.0	300	6.7	17.5	--	7.2	--	--
04...	810	810	--	5.0	300	6.7	17.5	--	7.2	--	--
13...	810	810	--	2.0	100	6.3	20.0	--	7.1	--	--
13...	810	810	--	5.0	100	6.3	19.5	--	7.1	--	--
13...	810	810	--	10	100	6.3	19.5	--	7.1	--	--
13...	810	810	--	15	100	6.3	19.5	--	7.2	--	--
13...	810	810	--	20	100	6.3	19.5	--	7.3	--	--
13...	9827	9827	10700	--	166	7.3	20.0	80	5.4	59	1.9
16...	810	810	--	2.0	100	6.4	21.5	--	6.6	--	--
16...	810	810	--	5.0	100	6.5	21.5	--	6.7	--	--
16...	810	810	--	10	100	6.5	21.0	--	6.7	--	--
16...	810	810	--	15	100	6.5	21.0	--	6.7	--	--
16...	810	810	--	20	100	6.6	21.0	--	6.8	--	--
23...	810	810	--	2.0	100	7.0	21.5	--	6.2	--	--
23...	810	810	--	5.0	100	6.9	21.5	--	6.2	--	--
23...	810	810	--	10	100	7.0	21.5	--	6.2	--	--
30...	810	810	--	2.0	100	7.1	23.0	--	6.7	--	--
30...	810	810	--	5.0	100	7.1	23.0	--	6.7	--	--
30...	810	810	--	10	100	7.1	23.0	--	6.8	--	--
MAY											
11...	9827	9827	350	--	170	7.3	21.0	60	5.6	40	2.2
12...	810	810	--	2.0	100	7.2	23.0	--	5.6	--	--
12...	810	810	--	5.0	100	7.1	22.5	--	5.6	--	--
12...	810	810	--	10	100	7.1	22.5	--	5.6	--	--
16...	810	810	--	2.0	100	7.1	25.5	--	5.4	--	--
16...	810	810	--	5.0	100	7.1	25.5	--	5.2	--	--
16...	810	810	--	10	100	7.1	25.5	--	5.2	--	--
23...	810	810	--	2.0	200	7.1	27.5	--	4.3	--	--
31...	810	810	--	2.0	200	7.5	32.0	--	4.4	--	--
JUN											
06...	810	810	--	2.0	200	7.3	33.0	--	4.3	--	--
08...	9827	9827	89	--	235	7.5	29.0	80	1.8	22	8.0
13...	810	810	--	2.0	200	7.2	29.0	--	4.7	--	--
23...	810	810	--	2.0	200	6.9	31.5	--	3.9	--	--
29...	810	810	--	2.0	200	7.0	31.5	--	4.7	--	--
JUL											
09...	810	810	--	2.0	100	6.8	33.0	--	4.9	--	--
11...	810	810	--	2.0	100	6.5	33.5	--	4.9	--	--
13...	9827	9827	--	--	--	--	--	--	--	--	--
13...	9827	9827	87	--	241	7.5	30.0	40	4.1	54	--
15...	9827	9827	--	--	--	--	--	--	--	--	--
21...	810	810	--	2.0	200	7.0	32.0	--	3.2	--	--
27...	810	810	--	2.0	200	7.4	31.5	--	3.7	--	--
AUG											
04...	810	810	--	2.0	200	7.3	30.5	--	4.0	--	--
09...	9827	9827	87	--	240	7.2	32.0	25	3.4	46	2.4
10...	810	810	--	2.0	200	7.2	31.5	--	4.0	--	--
SEP											
07...	9827	9827	88	--	235	7.6	29.0	10	3.8	49	1.7
21...	810	810	--	2.0	200	7.1	25.5	--	7.4	--	--
21...	810	810	--	5.0	200	7.4	25.5	--	3.1	--	--
26...	810	810	--	2.0	200	7.6	29.0	--	8.9	--	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM (COL. PER 100 ML) (31616)	HARDNESS (CA,MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)	TOTAL POTASSIUM (K) (MG/L) (00937)
OCT										
11...	300	20	120	47	--	39	--	4.0	45	0.3
NOV										
03...	550	30	--	--	--	--	--	--	--	--
DEC										
06...	230	33	--	--	--	--	--	--	--	--
JAN										
18...	60	10	--	--	--	--	--	--	--	--
FEB										
09...	40	57	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
13...	--	--	46	--	16	--	1.2	--	8.7	2.6
MAY										
11...	220	11	--	--	--	--	--	--	--	--
JUN										
08...	--	220	--	--	--	--	--	--	--	--
JUL										
13...	250	50	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	4.0	--	--	--
AUG										
09...	820	25	--	--	--	--	--	--	--	--
SEP										
07...	500	170	--	--	--	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L) (00440)	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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)
OCT										
11...	89	73	5.7	19	66	263	137	.28	--	--
NOV										
03...	--	--	--	16	33	190	11	.57	--	--
DEC										
06...	--	--	--	23	23	166	27	.12	--	--
JAN										
18...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	13	14	--	--	.38	--	--
APR										
13...	--	--	--	13	9.0	142	25	.22	<.10	.15
MAY										
11...	--	--	--	11	12	148	22	.14	.03	.30
JUN										
08...	--	--	--	--	19	--	153	.06	.02	.65
JUL										
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	18	159	103	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	17	--	144	42	<.05	<.05	.32
SEP										
07...	--	--	--	--	17	165	37	.06	<.05	--

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)
OCT									
11...	.26	<3	<10	<3	<10	1000	70	370	1.0
NOV									
03...	.08	--	--	--	--	--	--	--	--
DEC									
06...	.14	--	--	--	--	--	--	--	--
JAN									
18...	--	--	--	--	--	--	--	--	--
FEB									
09...	--	--	--	--	--	--	--	--	--
MAR									
09...	.12	--	--	--	--	--	--	--	--
APR									
13...	.08	<10	<10	<3	20	1200	--	70	--
MAY									
11...	.11	--	--	--	--	--	--	--	--
JUN									
08...	.11	--	--	--	--	--	--	--	--
JUL									
13...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
15...	--	--	<10	--	<10	4100	20	270	--
AUG									
09...	.15	--	--	--	--	--	--	--	--
SEP									
07...	.28	--	--	--	--	--	--	--	--

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									
11...	30	--	--	--	--	--	--	--	--
NOV									
03...	--	.00	.00	.00	.00	.00	.00	.00	2
DEC									
06...	--	--	--	--	--	--	--	--	--
JAN									
18...	--	--	--	--	--	--	--	--	--
FEB									
09...	--	--	--	--	--	--	--	--	--
MAR									
09...	--	--	--	--	--	--	--	--	--
APR									
13...	30	--	--	--	--	--	--	--	--
MAY									
11...	--	--	--	--	--	--	--	--	--
JUN									
08...	--	.00	.00	.00	.00	.00	.00	.00	0
JUL									
13...	--	--	--	--	--	--	--	--	--
13...	--	.00	.00	.00	.00	.00	.00	--	--
15...	20	--	--	--	--	--	--	--	--
AUG									
09...	--	.00	.00	.00	.00	.00	.00	.00	0
SEP									
07...	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11140302, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
11...	9827	9827	105	--	1310	7.3	18.0	50	5.9	15	>79000	110
NOV												
03...	9827	9827	--	68	650	7.1	12.0	60	5.2	9.0	1000	--
DEC												
06...	9827	9827	--	--	--	--	--	--	--	--	--	--
06...	9827	9827	--	--	1220	7.4	8.0	35	7.4	19	4700	--
JAN												
18...	9827	9827	--	79	476	7.2	.0	50	8.9	>8.9	1200	58
FEB												
09...	9827	9827	--	41	473	7.2	7.0	15	8.0	22	--	--
MAR												
09...	9827	9827	--	--	376	7.0	13.5	60	5.4	16	--	--
09...	--	--	--	41	--	--	--	--	--	--	--	--
APR												
13...	9827	9827	--	22	562	7.2	21.0	40	5.5	35	--	56
MAY												
11...	9827	9827	--	17	639	7.4	23.0	50	5.4	25	5100	--
JUN												
08...	9827	9827	--	5.0	1260	7.7	26.0	50	8.5	21	<100	--
JUL												
13...	9827	9827	--	--	--	--	--	--	--	--	1100	--
13...	9827	9827	--	205	622	7.3	30.0	80	2.5	--	--	--
15...	9827	9827	--	--	--	--	--	--	--	--	--	--
AUG												
09...	9827	9827	--	--	1430	7.7	30.5	50	4.4	10	820	--
SEP												
07...	9827	9827	--	68	3040	7.7	27.0	30	5.3	31	2600	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
11...	12	--	33	--	6.0	230	9.9	120	--	98	34
NOV											
03...	--	--	--	--	--	--	--	--	--	--	12
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	31
JAN											
18...	4	--	16	--	4.0	59	5.1	66	0	54	21
FEB											
09...	--	--	--	--	--	--	--	--	--	--	27
MAR											
09...	--	--	--	--	--	--	--	--	--	--	16
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
13...	--	18	--	2.1	--	68	4.9	--	--	--	26
MAY											
11...	--	--	--	--	--	--	--	--	--	--	21
JUN											
08...	--	--	--	--	--	--	--	--	--	--	45
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	31
15...	--	--	--	3.0	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	34
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

07344300 DAYS CREEK SOUTHEAST OF TEXARKANA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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											
11...	380	719	20	.44	--	--	2.0	<3	<10	<3	10
NOV											
03...	160	372	20	.74	--	--	1.5	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	280	615	7	.25	--	--	3.0	--	--	--	--
JAN											
18...	84	278	37	.51	--	--	1.2	<3	<10	<3	<10
FEB											
09...	92	277	28	--	--	--	1.4	--	--	--	--
MAR											
09...	67	--	--	.56	--	--	1.0	--	--	--	--
APR											
13...	100	311	28	.41	.15	15	1.0	<10	<10	<3	20
MAY											
11...	140	363	17	.24	.22	6.9	1.0	--	--	--	--
JUN											
08...	260	--	24	.07	.16	44	.27	--	--	--	--
JUL											
13...	140	365	15	.13	.16	4.2	.08	--	--	--	--
15...	--	--	--	--	--	--	--	--	<10	--	10
AUG											
09...	--	753	21	<.05	.12	9.3	5.1	--	--	--	--
SEP											
07...	850	1620	17	.09	.22	--	4.6	--	--	--	--

DATE	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 ZINC (ZN) (UG/L) (01092)	TOTAL ALDRIN (UG/L) (39330)	TOTAL DDE (UG/L) (39365)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL LINDANE (UG/L) (39782)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL TOX-APHENE (UG/L) (39400)
OCT											
11...	2000	10	750	<.5	30	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	.00	.00	.00	.00	.00	0
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	2000	70	590	--	60	--	--	--	--	--	--
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
13...	1100	--	380	--	30	--	--	--	--	--	--
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
15...	1400	20	350	--	20	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11140302, 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, CALENDAR YEAR JANUARY 1976 TO DECEMBER 1976

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING DEPTH (FT) (00003)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)
OCT						
05...	810	810	2.0	7.7	24.0	6.9
05...	810	810	5.0	7.3	24.5	6.8
05...	810	810	10	7.2	24.5	6.7
05...	810	810	15	7.2	24.5	6.7
12...	810	810	2.0	6.9	21.0	7.4
12...	810	810	5.0	6.7	21.0	7.5
12...	810	810	10	6.7	21.0	7.5
12...	810	810	15	6.6	20.5	7.5
12...	810	810	20	6.5	20.5	7.6
20...	810	810	2.0	6.3	17.0	8.7
20...	810	810	5.0	6.3	17.0	8.5
20...	810	810	10	6.3	17.0	8.4
20...	810	810	15	6.3	17.0	8.4
25...	810	810	2.0	7.0	16.5	9.4
25...	810	810	5.0	7.0	16.5	9.3
25...	810	810	10	6.9	16.5	9.3
25...	810	810	15	7.0	16.5	9.3
25...	810	810	20	7.1	16.0	9.2
NOV						
02...	810	810	2.0	7.2	14.0	10.2
02...	810	810	5.0	7.2	13.5	10.8
02...	810	810	10	7.2	13.5	10.2
02...	810	810	15	7.2	13.5	9.8
09...	810	810	2.0	7.1	13.5	9.3
09...	810	810	5.0	7.2	13.0	9.6
09...	810	810	10	7.2	13.0	9.8
09...	810	810	15	7.2	13.0	9.7
09...	810	810	20	7.2	13.0	9.8
15...	810	810	2.0	7.8	9.5	9.2
15...	810	810	5.0	7.7	9.5	9.1
15...	810	810	10	7.8	9.5	9.1
15...	810	810	15	7.7	9.5	9.1
22...	810	810	2.0	6.7	10.5	8.8
22...	810	810	5.0	6.9	10.0	8.9
22...	810	810	10	6.9	10.0	8.9
22...	810	810	15	6.9	10.0	8.9
22...	810	810	20	6.9	9.5	8.8
29...	810	810	2.0	7.0	9.0	10.6
29...	810	810	5.0	6.8	9.0	10.0
29...	810	810	10	6.9	9.0	9.7
29...	810	810	15	6.9	9.0	9.3
DEC						
06...	810	810	2.0	7.0	9.0	9.3
06...	810	810	5.0	7.0	8.5	9.3
06...	810	810	10	7.1	8.5	9.2
13...	810	810	2.0	7.0	9.5	10.6
13...	810	810	5.0	7.0	9.0	10.6
13...	810	810	10	7.0	8.5	10.7
13...	810	810	15	7.0	8.5	10.7
13...	810	810	20	6.9	8.5	10.7
20...	810	810	2.0	7.2	9.0	10.0
20...	810	810	5.0	7.2	9.0	9.9
20...	810	810	10	7.3	8.5	9.9
20...	810	810	15	7.3	8.5	9.8
20...	810	810	20	7.3	8.5	9.7
30...	810	810	2.0	6.9	7.5	9.4
30...	810	810	5.0	7.0	7.0	9.4
30...	810	810	10	7.0	6.5	9.6
30...	810	810	15	7.0	6.0	9.6
30...	810	810	20	7.0	6.0	9.5

07344340 SULPHUR RIVER NEAR FORT LYNN, AR--Continued

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1977 TO DECEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
JAN						
07...	810	810	2.0	7.0	4.5	10.9
07...	810	810	5.0	6.9	4.0	10.8
07...	810	810	10	6.9	4.0	10.9
07...	810	810	15	6.9	4.0	10.9
11...	810	810	2.0	8.2	2.5	12.1
11...	810	810	5.0	8.2	2.5	12.2
11...	810	810	10	8.1	2.0	12.0
11...	810	810	15	8.1	2.0	11.9
17...	810	810	2.0	6.3	3.0	12.7
17...	810	810	5.0	6.3	2.5	12.5
17...	810	810	10	6.3	2.5	12.5
17...	810	810	15	6.3	2.5	12.5
17...	810	810	20	6.4	2.5	12.5
24...	810	810	2.0	7.3	4.0	12.8
24...	810	810	5.0	7.4	3.5	12.8
24...	810	810	10	7.4	3.5	12.9
24...	810	810	15	7.4	3.5	13.0
24...	810	810	20	7.5	3.5	13.2
24...	810	810	25	7.5	3.0	13.3
FEB						
01...	810	810	2.0	7.3	4.5	11.3
01...	810	810	5.0	7.3	4.5	11.2
01...	810	810	10	7.4	4.5	11.4
01...	810	810	15	7.4	4.0	11.5
01...	810	810	20	7.4	4.0	11.6
08...	810	810	2.0	7.0	6.0	10.3
08...	810	810	5.0	7.1	6.0	10.2
08...	810	810	10	7.1	6.0	10.2
08...	810	810	15	7.1	6.0	10.3
08...	810	810	20	7.1	6.0	10.4
15...	810	810	2.0	6.6	9.0	10.0
15...	810	810	5.0	6.6	9.0	9.8
15...	810	810	10	6.6	9.0	9.8
15...	810	810	15	6.5	9.0	9.7
15...	810	810	20	6.5	9.0	9.6
15...	810	810	25	6.5	8.5	9.2
22...	810	810	2.0	7.0	12.5	7.9
22...	810	810	5.0	7.1	11.5	8.2
22...	810	810	10	7.0	11.5	8.3
22...	810	810	15	7.1	11.5	8.5
22...	810	810	20	7.1	11.5	8.6
22...	810	810	25	7.1	11.0	8.6
MAR						
08...	810	810	2.0	6.6	14.0	6.7
08...	810	810	5.0	6.7	14.0	6.8
08...	810	810	10	6.7	13.5	6.8
08...	810	810	15	6.7	13.5	6.8
08...	810	810	20	6.8	13.0	6.6
08...	810	810	25	6.8	13.0	6.5
15...	810	810	2.0	6.5	18.0	7.2
15...	810	810	5.0	6.6	17.5	7.3
15...	810	810	10	6.7	17.0	7.5
15...	810	810	15	6.7	17.0	7.5
15...	810	810	20	6.7	17.0	7.7
15...	810	810	25	6.8	17.0	7.8
21...	810	810	2.0	6.8	17.0	7.8
21...	810	810	5.0	6.8	17.0	8.0
21...	810	810	10	6.8	17.0	8.0
21...	810	810	15	6.8	17.0	8.0
21...	810	810	20	6.9	16.5	7.5
21...	810	810	25	6.9	16.5	7.4
29...	810	810	2.0	6.5	18.5	6.6
29...	810	810	5.0	6.5	18.0	6.0
29...	810	810	10	6.4	18.0	6.0
29...	810	810	15	6.4	18.0	6.0
29...	810	810	20	6.4	18.0	5.9
29...	810	810	25	6.4	18.0	5.9
APR						
04...	810	810	2.0	7.1	18.0	7.7
04...	810	810	5.0	7.1	18.0	7.4
13...	810	810	2.0	6.3	20.0	7.1
13...	810	810	5.0	6.3	20.0	7.1
13...	810	810	10	6.3	20.0	7.0
13...	810	810	15	6.3	20.0	7.0
13...	810	810	20	6.3	19.5	7.0
13...	810	810	25	6.3	19.5	7.0
18...	810	810	2.0	5.8	22.0	5.5
18...	810	810	5.0	5.8	21.5	5.6
18...	810	810	10	5.9	21.5	5.8
18...	810	810	15	5.9	21.5	5.8

07344340 SULPHUR RIVER NEAR FORT LYNN, AR--Continued

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1977 TO DECEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
APR						
16...	810	810	20	6.0	21.0	5.9
16...	810	810	25	6.0	21.0	5.9
23...	810	810	2.0	6.6	21.0	5.4
23...	810	810	5.0	6.7	21.0	5.4
23...	810	810	10	6.8	20.5	5.7
30...	810	810	2.0	6.7	23.5	5.5
30...	810	810	5.0	6.9	23.0	5.6
30...	810	810	10	6.9	22.5	5.6
MAY						
12...	810	810	2.0	6.8	22.5	4.1
12...	810	810	5.0	6.9	22.0	4.2
12...	810	810	10	6.9	22.0	4.2
12...	810	810	15	6.9	22.0	4.3
16...	810	810	2.0	6.9	25.5	3.7
16...	810	810	5.0	6.9	25.5	3.7
16...	810	810	10	7.0	25.0	3.7
23...	810	810	2.0	7.7	27.5	2.0
23...	810	810	5.0	7.5	27.0	1.9
23...	810	810	10	7.5	27.0	1.5
31...	810	810	2.0	7.4	32.0	6.8
31...	810	810	5.0	7.4	31.0	4.6
31...	810	810	10	7.4	30.0	1.6
31...	810	810	15	7.3	29.5	.7
JUN						
06...	810	810	2.0	7.4	34.0	8.7
06...	810	810	5.0	7.2	31.5	4.7
06...	810	810	10	7.1	31.0	1.5
06...	810	810	15	7.1	30.0	.8
13...	810	810	2.0	7.0	31.5	5.4
13...	810	810	5.0	7.0	31.0	3.1
13...	810	810	10	7.0	31.0	2.9
13...	810	810	15	7.0	31.0	2.8
23...	810	810	2.0	7.3	31.5	4.1
23...	810	810	5.0	7.2	31.5	2.9
23...	810	810	10	7.1	31.0	2.7
29...	810	810	2.0	7.2	32.0	4.3
29...	810	810	5.0	7.1	31.5	3.1
29...	810	810	10	7.1	31.5	2.1
JUL						
09...	810	810	2.0	6.8	34.0	5.8
09...	810	810	5.0	7.1	33.5	4.2
09...	810	810	10	7.2	32.0	3.7
11...	810	810	2.0	6.6	32.5	4.1
11...	810	810	5.0	6.6	32.0	3.7
11...	810	810	10	6.6	32.0	2.7
21...	810	810	2.0	7.1	32.0	5.2
21...	810	810	5.0	7.1	31.5	4.4
21...	810	810	10	7.1	31.5	2.5
27...	810	810	2.0	7.3	32.0	4.7
27...	810	810	5.0	7.2	32.0	4.2
27...	810	810	10	7.1	32.0	3.2
AUG						
04...	810	810	2.0	7.1	31.0	3.0
04...	810	810	5.0	7.1	30.5	2.5
04...	810	810	10	7.1	30.5	2.5
10...	810	810	2.0	7.1	32.0	4.3
10...	810	810	5.0	7.0	32.0	4.1
10...	810	810	10	7.0	32.5	3.1
SEP						
21...	810	810	2.0	7.6	27.0	4.6
21...	810	810	5.0	7.6	26.5	3.9
26...	810	810	2.0	7.8	29.0	4.6
26...	810	810	5.0	7.7	28.0	4.1
26...	810	810	10	7.6	27.5	3.3

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, Hydrologic Unit 11140201, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
25...	9827	9827	12000	531	8.1	15.0	20	8.9	3.7	500	--
NOV											
23...	9827	9827	6500	1200	8.1	9.0	20	10.7	2.7	--	270
DEC											
20...	9827	9827	22000	614	7.8	8.0	40	10.2	2.2	130	--
JAN											
26...	9827	9827	--	--	--	--	--	--	--	--	--
FEB											
23...	9827	9827	26000	168	6.8	12.0	120	7.8	2.0	370	33
MAR											
23...	9827	9827	18000	149	7.8	15.0	110	9.5	1.5	--	--
APR											
27...	9827	9827	51000	352	7.8	20.0	120	8.0	7.2	--	--
MAY											
25...	9827	9827	11000	1390	8.0	26.0	60	7.3	2.6	3000	--
JUN											
22...	9827	9827	11000	1250	8.1	28.0	20	7.8	1.8	6100	--
JUL											
27...	9827	9827	4400	1210	8.2	28.0	20	8.4	--	280	--
AUG											
24...	9827	9827	3200	1310	8.2	29.0	15	8.1	2.9	520	300
SEP											
21...	9827	9827	4600	1400	8.2	26.0	30	8.5	2.8	780	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
25...	--	--	--	--	--	--	--	--	--	--	60
NOV											
23...	170	--	68	--	24	150	4.7	120	0	98	84
DEC											
20...	--	--	--	--	--	--	--	--	--	--	52
JAN											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	0	--	7.0	--	3.7	10	4.1	51	0	42	15
MAR											
23...	--	--	--	--	--	--	--	--	--	--	12
APR											
27...	--	--	--	--	--	--	--	--	--	--	37
MAY											
25...	--	60	--	29	--	160	9.1	--	--	--	--
JUN											
22...	--	--	--	--	--	--	--	--	--	--	160
JUL											
27...	--	--	--	--	--	--	--	--	--	--	150
AUG											
24...	--	79	--	23	--	26	5.6	--	--	--	110
SEP											
21...	--	--	--	--	--	--	--	--	--	--	190

07344350 RED RIVER NEAR SPRING BANK, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
25...	56	323	39	<.10	--	--	.06	--	--	--	--	--
NOV												
23...	200	714	39	.25	--	--	.04	<3	<10	<3	<10	770
DEC												
20...	96	364	121	.39	--	--	.05	--	--	--	--	--
FEB												
23...	12	160	131	.17	--	--	.21	<3	<10	--	<10	7000
MAR												
23...	14	--	--	--	--	<.10	--	--	--	--	--	--
APR												
27...	46	248	199	.11	.03	.09	.16	--	--	--	--	--
MAY												
25...	290	885	355	--	--	--	--	--	<10	--	20	18000
JUN												
22...	220	797	84	--	--	--	--	--	--	--	--	--
JUL												
27...	240	771	--	--	.01	.01	.08	--	--	--	--	--
AUG												
24...	250	780	60	<.05	<.05	.50	.11	--	<10	<5	10	1900
SEP												
21...	240	838	50	<.05	<.05	.06	.14	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
25...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
23...	40	94	<.5	10	--	--	--	--	--	--	--	--
DEC												
20...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
FEB												
23...	--	210	--	60	--	--	--	--	--	--	--	--
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	30	1400	--	50	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL												
27...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
AUG												
24...	30	280	--	--	.00	.00	.00	.00	.01	.00	.04	0
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11140203, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
25...	9827	9827	11	294	7.0	15.0	60	5.8	3.7	3300	980	--
NOV												
23...	9827	9827	12	449	7.2	5.0	35	9.0	1.4	--	--	48
DEC												
20...	9827	9827	128	396	6.5	7.0	30	8.3	1.1	380	--	--
JAN												
26...	9827	9827	204	235	6.7	3.0	20	11.5	2.3	160	--	--
FEB												
21...	9827	9827	--	--	--	--	--	--	--	--	--	--
23...	9827	9827	396	207	5.7	12.0	45	8.2	1.1	92	--	19
MAR												
23...	9827	9827	218	189	6.5	12.0	100	7.6	1.2	--	--	--
APR												
27...	9827	9827	456	170	6.5	16.0	120	6.3	1.2	--	--	--
MAY												
25...	9827	9827	14	237	6.7	22.0	100	5.7	2.5	80	--	--
JUN												
22...	9827	9827	29	259	6.9	24.0	80	4.8	.9	420	--	--
AUG												
24...	9827	9827	13	334	7.3	25.0	60	3.0	.6	330	--	--
SEP												
21...	9827	9827	7.0	328	7.4	22.0	50	4.2	2.0	680	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
25...	--	--	--	--	--	--	--	--	--	--	11
NOV											
23...	27	--	14	--	3.0	61	4.6	26	0	21	25
DEC											
20...	--	--	--	--	--	--	--	--	--	--	13
JAN											
26...	--	--	--	--	--	--	--	--	--	--	15
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
23...	15	--	4.7	--	1.8	26	1.9	5	0	4	8.0
MAR											
23...	--	--	--	--	--	--	--	--	--	--	9.0
APR											
27...	--	--	--	--	--	--	--	--	--	--	5.0
MAY											
25...	--	4.0	--	2.0	--	29	2.1	--	--	--	11
JUN											
22...	--	--	--	--	--	--	--	--	--	--	38
AUG											
24...	--	--	--	--	--	--	--	--	--	--	16
SEP											
21...	--	--	--	--	--	--	--	--	--	--	18

07348650 BAYOU DORCHEAT NEAR TAYLOR, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
25...	57	197	12	.73	--	--	.81	--	--	--	--	--
NOV												
23...	180	268	6	.66	--	--	1.0	<3	<10	<3	<10	330
DEC												
20...	100	263	3	.44	--	--	.22	--	--	--	--	--
JAN												
26...	78	178	24	.36	--	--	.12	--	--	--	--	--
FEB												
21...	--	--	--	--	--	--	--	--	--	--	--	--
23...	48	141	13	.38	--	--	.18	<3	<10	--	<10	280
MAR												
23...	44	149	7	--	--	<.10	.31	--	--	--	--	--
APR												
27...	40	156	12	.07	.01	.10	.24	--	--	--	--	--
MAY												
25...	58	181	41	.21	.01	.12	.58	--	<10	--	10	3400
JUN												
22...	33	192	9	.34	.02	--	4.3	--	--	--	--	--
AUG												
24...	58	231	6	.13	<.05	.10	.94	--	--	--	--	--
SEP												
21...	52	212	8	<.05	<.05	.08	.98	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
25...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
23...	<10	140	.8	40	--	--	--	--	--	--	--	--
DEC												
20...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN												
26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
21...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
23...	40	230	--	70	--	--	--	--	--	--	--	--
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	20	1100	--	40	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
AUG												
24...	--	--	--	--	--	--	.00	--	.00	.00	.00	0
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 11140205, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
25...	9827	9827	.30	371	6.6	15.0	30	5.5	1.7	2000	1400	--
NOV												
23...	9827	9827	30	289	6.5	6.0	30	5.8	1.0	--	--	36
DEC												
20...	9827	9827	--	179	6.0	7.0	50	8.1	1.9	430	--	--
JAN												
26...	9827	9827	189	224	6.3	4.0	30	11.1	2.4	440	--	--
FEB												
23...	9827	9827	372	112	5.5	11.0	60	8.0	1.5	400	--	12
MAR												
23...	9827	9827	120	130	6.2	12.0	25	6.4	1.3	--	--	--
APR												
27...	9827	9827	840	64	6.2	16.0	120	5.1	1.5	--	--	--
MAY												
25...	9827	9827	.30	206	6.5	22.0	100	4.5	2.0	--	--	--
JUN												
22...	9827	9827	6.0	207	6.6	25.0	60	5.9	3.4	600	--	--
JUL												
27...	9827	9827	.00	268	7.0	28.0	150	3.0	--	150	--	--
AUG												
24...	9827	9827	.20	224	7.2	25.5	50	5.1	2.0	180	--	28
SEP												
21...	9827	9827	.20	242	7.6	21.0	40	8.5	2.2	320	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
25...	--	--	--	--	--	--	--	--	--	--	8.0
NOV											
23...	25	--	9.0	--	3.0	36	3.2	13	0	11	11
DEC											
20...	--	--	--	--	--	--	--	--	--	--	8.0
JAN											
26...	--	--	--	--	--	--	--	--	--	--	11
FEB											
23...	9	--	2.3	--	1.5	12	1.6	4	0	3	5.0
MAR											
23...	--	--	--	--	--	--	--	--	--	--	7.0
APR											
27...	--	--	--	--	--	--	--	--	--	--	3.0
MAY											
25...	--	3.0	--	2.0	--	25	1.7	--	--	--	7.0
JUN											
22...	--	--	--	--	--	--	--	--	--	--	3.0
JUL											
27...	--	--	--	--	--	--	--	--	--	--	6.0
AUG											
24...	--	5.0	--	3.0	--	30	2.3	--	--	--	1.0
SEP											
21...	--	--	--	--	--	--	--	--	--	--	11

07349440 BODCAU CREEK NEAR LEWISVILLE, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT								
25...	91	236	4	.38	--	--	.17	--
NOV								
23...	80	178	6	.28	--	--	.27	<3
DEC								
20...	39	136	17	.43	--	--	.10	--
JAN								
26...	61	138	15	.28	--	--	.11	--
FEB								
23...	26	92	11	.17	--	--	.09	<3
MAR								
23...	31	54	12	--	--	<.10	--	--
APR								
27...	14	87	11	.01	.01	.08	.09	--
MAY								
25...	50	153	20	.15	.05	.12	.27	--
JUN								
22...	51	147	10	.02	.01	--	.19	--
JUL								
27...	62	215	--	--	.02	.16	.37	--
AUG								
24...	48	147	28	<.05	<.05	.05	.23	--
SEP								
21...	50	146	3	<.05	<.05	.05	.18	--

DATE	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)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT								
25...	--	--	--	--	--	--	--	--
NOV								
23...	<10	<3	<10	530	<10	110	<.5	30
DEC								
20...	--	--	--	--	--	--	--	--
JAN								
26...	--	--	--	--	--	--	--	--
FEB								
23...	<10	--	<10	420	20	210	--	40
MAR								
23...	--	--	--	--	--	--	--	--
APR								
27...	--	--	--	--	--	--	--	--
MAY								
25...	<10	--	10	3000	20	470	--	30
JUN								
22...	--	--	--	--	--	--	--	--
JUL								
27...	--	--	--	--	--	--	--	--
AUG								
24...	<10	<5	10	1500	10	390	--	--
SEP								
21...	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040101, 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.--36 years, 716 ft^3/s (20.3 m^3/s), 23.72 in/yr (602 mm/yr), 518,700 acre-ft/yr (640 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.--Peak discharges above base of 11,000 ft^3/s (310 m^3/s) and maximum (*):

Date	Time	Discharges (ft^3/s)	Discharges (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	0500	15,800	447	17.72	5.401
Mar. 28	0900	*37,400	1,060	26.77	8.160

Minimum discharge, 22 ft^3/s (0.62 m^3/s) July 20, gage height, 1.18 ft (0.360 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	588	405	132	364	728	1670	236	47	41	485	28
2	42	460	356	127	336	630	1580	210	43	40	306	26
3	39	380	330	125	476	6370	1480	195	41	37	186	25
4	35	314	310	122	1150	10900	1340	175	40	35	132	24
5	37	252	290	124	931	3110	1080	160	42	32	103	23
6	195	209	272	130	766	2010	772	146	39	30	84	24
7	341	178	400	135	644	1540	639	135	38	28	72	29
8	187	157	358	145	559	1180	563	127	36	26	64	32
9	127	139	330	193	497	854	501	119	35	25	58	30
10	97	125	555	332	444	711	452	111	33	24	51	29
11	81	117	2660	336	456	760	406	102	32	25	64	27
12	71	113	3060	296	1940	1800	374	93	31	32	75	25
13	63	107	1770	437	1750	1300	326	87	32	47	50	30
14	58	107	1210	2820	1220	974	293	80	46	40	195	34
15	53	111	926	2470	936	800	268	76	47	33	122	38
16	52	111	749	1690	760	660	250	71	50	28	84	35
17	48	111	615	1190	644	559	236	67	68	25	122	32
18	49	107	519	926	563	501	625	63	75	24	117	29
19	51	104	452	777	497	456	1250	60	67	23	96	28
20	53	129	403	685	433	403	1320	64	62	23	81	26
21	63	282	350	563	385	357	3100	67	53	28	67	25
22	65	380	306	514	350	315	2050	76	47	32	58	24
23	66	308	280	506	385	286	1290	99	41	26	52	24
24	87	264	253	665	464	256	931	102	38	30	47	27
25	1130	233	226	690	421	242	717	81	38	31	43	28
26	1570	273	205	625	563	234	563	71	40	47	40	77
27	749	1300	188	586	1090	4260	468	64	46	150	38	124
28	510	839	173	545	895	32800	395	60	47	198	35	111
29	398	598	160	489	---	7350	329	57	44	162	33	125
30	598	476	152	433	---	2820	283	54	40	128	31	202
31	829	---	141	395	---	2010	---	51	---	130	29	---
TOTAL	7788	8872	18404	19203	19919	87176	25551	3159	1338	1580	3020	1341
MEAN	251	296	594	619	711	2812	852	102	44.6	51.0	97.4	44.7
MAX	1570	1300	3060	2820	1940	32800	3100	236	75	198	485	202
MIN	35	104	141	122	336	234	236	51	31	23	29	23
CFSM	.61	.72	1.45	1.51	1.73	6.86	2.08	.25	.11	.12	.24	.11
IN.	.71	.80	1.67	1.74	1.81	7.91	2.32	.29	.12	.14	.27	.12
AC-FT	15450	17600	36500	38090	39510	172900	50680	6270	2650	3130	5990	2660

CAL YR 1976 TOTAL 114881 MEAN 314 MAX 7540 MIN 13 CFSM .77 IN 10.42 AC-FT 227900
WTR YR 1977 TOTAL 197351 MEAN 541 MAX 32800 MIN 23 CFSM 1.32 IN 17.91 AC-FT 391400

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
19...	9827	9827	46	64	7.6	17.0	25	9.1	1.8	300	30	50
19...	1028	1028	54	--	--	13.0	--	--	--	--	--	--
NOV												
23...	9827	9827	--	66	7.4	14.0	20	10.4	1.9	--	--	--
23...	--	--	308	--	--	--	--	--	--	--	--	--
23...	9827	9827	--	--	--	--	--	--	--	--	--	--
DEC												
02...	1028	1028	357	--	--	4.0	--	--	--	--	--	--
14...	9827	9827	1220	51	6.9	10.0	20	10.8	1.6	500	--	--
JAN												
21...	1028	1028	580	--	--	.5	--	--	--	--	--	--
24...	9827	9827	644	49	7.1	9.0	20	12.1	2.4	200	50	18
FEB												
15...	9827	9827	947	41	7.1	11.0	40	11.6	2.0	110	25	--
16...	9827	9827	--	--	--	--	--	--	--	<5	--	--
22...	1028	1028	363	--	--	9.0	--	--	--	--	--	--
MAR												
15...	9827	9827	810	41	7.0	19.0	25	10.0	2.0	--	--	--
APR												
06...	1028	1028	776	--	--	13.5	--	--	--	--	--	--
19...	9827	9827	1090	52	7.3	22.0	15	8.5	2.9	--	--	10
MAY												
17...	9827	9827	69	67	7.4	26.0	10	--	--	20	--	--
17...	1028	1028	64	--	--	25.0	--	--	--	--	--	--
JUN												
14...	9827	9827	56	74	7.4	28.0	15	7.2	2.2	--	--	--
21...	9827	9827	--	--	--	--	--	--	--	--	--	--
28...	1028	1028	49	--	--	29.0	--	--	--	--	--	--
JUL												
19...	9827	9827	23	101	7.8	32.0	5	8.1	3.3	560	--	--
AUG												
09...	1028	1028	56	--	--	32.0	--	--	--	--	--	--
23...	9827	9827	52	59	7.4	28.0	5	8.0	2.2	35	--	--
SEP												
19...	1028	1028	26	--	--	27.0	--	--	--	--	--	--
20...	9827	9827	28	62	7.5	26.0	0	8.6	2.1	290	--	--

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	24	--	10	--	6.0	3.3	1.0	32	--	26	6.0
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	--	--	--	--	--	--	--	--	--	--	6.0
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	6.0
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
24...	3	--	5.0	--	1.0	2.4	.6	18	0	15	7.0
FEB											
15...	--	--	--	--	--	--	--	--	--	--	6.0
16...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	6.0
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	--	2.7	--	.7	--	2.8	.8	--	--	--	3.0
MAY											
17...	--	--	--	--	--	--	--	--	--	--	5.0
17...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	9.0	--	2.0	--	2.8	.8	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	5.0
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	1.0
SEP											
19...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	4.0

07356000 OUACHITA RIVER NEAR MOUNT IDA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)	TOT IRO (FE (UG/ (0104
CT												
19...	4.5	48	9	.14	--	--	.02	--	<10	<3	<10	2
NV												
23...	4.0	59	--	<.10	--	--	.01	--	--	--	<10	3
EC												
14...	4.0	52	3	<.10	--	--	.01	--	--	--	<10	8
AN												
24...	6.5	45	5	.26	--	--	.04	<3	<10	--	30	3
EB												
15...	4.5	45	7	.26	--	--	.05	--	--	--	<10	7
AR												
15...	5.0	51	14	--	--	--	.07	--	--	--	<10	12
AR												
9...	3.5	41	12	<.10	--	.13	.06	<10	<10	<3	<10	4
AY												
17...	3.5	38	<1	--	--	.04	.08	--	--	--	10	3
UN												
14...	5.0	55	2	.07	.00	.22	.02	--	<10	<3	<10	3
21...	--	--	--	--	--	--	--	--	--	--	--	6
UL												
19...	4.0	67	3	.00	.01	.04	.13	--	--	--	20	<
UG												
23...	4.5	52	4	.05	<.05	.09	.04	--	--	--	--	
EP												
20...	5.5	--	2	.12	<.05	.07	.04	--	--	--	<10	2

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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 APHE (UG/ (3940
CT												
19...	<10	<27	<.5	<10	--	--	--	--	--	--	--	
NV												
23...	--	27	--	<10	--	--	--	--	--	--	--	
EC												
14...	--	<27	--	150	.00	.00	.00	.00	.00	.00	.00	
AN												
24...	<10	1400	--	<10	--	--	--	--	--	--	--	
EB												
15...	--	<27	--	<10	--	--	--	--	--	--	--	
AR												
15...	--	260	--	<10	--	--	--	--	--	--	--	
AR												
9...	--	32	--	<10	--	--	--	--	--	--	--	
AY												
17...	--	41	--	<10	--	--	--	--	--	--	--	
UN												
14...	<10	32	--	<10	--	--	--	--	--	--	--	
21...	20	2500	--	--	--	--	--	--	--	--	--	
UL												
19...	--	50	--	100	--	--	--	--	--	--	--	
UG												
23...	--	--	--	--	--	--	--	--	--	--	--	
	--	39	--	50	--							

07356320 IRONS FORK NEAR FANNIE, AR

LOCATION.--Lat 34°41'27", long 93°24'44", in NE¼SE¼ sec.35, T.1 N., R.25 W., Montgomery County, Hydrologic Unit 08040101, at bridge on State Highway 298, and 2.2 mi (3.5 km) east of Fannie.

DRAINAGE AREA.--72.2 mi² (187.0 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
OCT						
05...	810	810	43	6.9	21.0	5.5
12...	810	810	27	6.9	20.5	7.2
19...	810	810	38	7.0	9.5	7.6
26...	810	810	36	6.8	10.5	8.8
NOV						
02...	810	810	44	7.0	11.0	9.8
09...	810	810	42	6.5	8.0	10.8
15...	810	810	14	6.5	4.5	9.8
22...	810	810	38	6.8	7.0	11.6
30...	810	810	25	6.6	4.0	12.3
DEC						
06...	810	810	34	6.5	5.0	12.0
14...	810	810	27	6.5	5.0	11.8
20...	810	810	29	6.5	5.0	11.8
27...	810	810	56	6.5	3.5	12.2
JAN						
04...	810	810	36	6.6	.5	12.2
12...	810	810	22	6.3	.0	14.8
17...	810	810	7	6.3	.0	15.8
25...	810	810	55	6.6	2.0	20.0
31...	810	810	42	6.5	3.0	9.8
FEB						
07...	810	810	13	6.6	9.0	9.4
15...	810	810	13	6.3	9.0	11.2
22...	810	810	39	6.7	8.0	11.0
MAR						
07...	810	810	36	6.2	11.5	10.6
14...	810	810	36	6.6	14.5	9.0
21...	810	810	38	6.4	15.0	9.5
24...	810	810	35	6.7	15.0	9.6
APR						
04...	810	810	34	6.6	16.5	9.8
11...	810	810	32	6.6	21.0	7.0
18...	810	810	37	6.6	22.0	5.7
25...	810	810	30	6.9	20.0	6.5
MAY						
02...	810	810	30	6.7	25.0	6.6
08...	810	810	38	6.8	25.0	6.8
17...	810	810	58	6.6	28.5	8.3
23...	810	810	42	6.9	28.0	5.3
30...	810	810	51	6.9	29.5	4.5
JUN						
05...	810	810	42	7.0	29.0	4.7
13...	810	810	41	6.9	29.0	6.4
21...	810	810	34	6.7	30.5	5.2
28...	810	810	42	6.8	32.0	7.0
JUL						
06...	810	810	34	6.9	34.0	6.6
19...	810	810	25	6.9	34.0	10.2
25...	810	810	24	6.8	33.0	9.8
AUG						
01...	810	810	38	6.5	27.5	5.8
08...	810	810	38	6.9	33.0	10.0
15...	810	810	26	6.9	32.0	5.7
22...	810	810	22	6.7	28.5	8.2
29...	810	810	28	6.9	29.0	5.2
SEP						
07...	810	810	21	6.8	28.0	6.5
12...	810	810	29	7.0	27.0	6.5
19...	810	810	28	6.9	28.0	6.0
28...	810	810	34	7.2	30.5	8.8

07356500 SOUTH FORK OUACHITA RIVER AT MOUNT IDA, AR

LOCATION.--Lat 34°33'36", long 93°38'16", in NE¼NE¼ sec.23, T.2 S., R.25 W., Montgomery County, Hydrologic Unit 08040101, near right bank on downstream side of bridge on U.S. Highway 270 at Mount Ida, 3.4 mi (5.5 km) upstream from Williams Creek, and at mile 22.5 (36.2 km).

DRAINAGE AREA.--64 mi^2 (166 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
OCT						
05...	810	810	176	7.2	21.0	4.4
12...	810	810	166	7.4	19.0	5.7
19...	810	810	134	7.4	10.0	7.8
26...	810	810	89	7.0	8.0	9.3
NOV						
02...	810	810	179	7.4	11.0	7.2
09...	810	810	135	7.4	6.0	11.0
15...	810	810	128	7.2	4.0	10.0
22...	810	810	93	7.2	7.0	9.0
30...	810	810	87	7.2	3.0	11.4
DEC						
06...	810	810	138	7.3	8.0	9.2
14...	810	810	110	6.9	5.0	9.7
20...	810	810	97	7.2	6.0	10.0
27...	810	810	135	7.2	6.0	10.4
JAN						
04...	810	810	123	7.3	.5	10.2
17...	810	810	117	6.8	.0	15.0
25...	810	810	110	7.1	5.0	19.0
31...	810	810	129	7.2	3.0	9.6
FEB						
07...	810	810	118	7.2	8.0	10.2
15...	810	810	76	7.0	8.0	9.8
22...	810	810	118	7.1	10.0	8.6
MAR						
07...	810	810	160	7.4	12.0	7.8
14...	810	810	137	7.1	16.5	7.8
21...	810	810	206	7.4	15.0	8.0
24...	810	810	84	7.2	16.0	7.8
APR						
04...	810	810	155	7.4	18.0	10.4
11...	810	810	164	7.4	22.0	6.7
18...	810	810	120	7.2	19.0	6.2
25...	810	810	142	7.4	17.5	8.2
MAY						
02...	810	810	173	7.4	24.0	6.0
08...	810	810	189	7.4	22.5	6.8
17...	810	810	154	7.5	27.0	8.0
23...	810	810	204	7.4	24.5	5.3
30...	810	810	197	7.4	28.0	5.0
JUN						
05...	810	810	182	7.4	25.0	4.5
13...	810	810	186	7.4	26.0	4.2
21...	810	810	266	7.4	3.0	5.2
28...	810	810	186	8.5	29.5	6.6
JUL						
06...	810	810	169	8.1	31.0	7.8
19...	810	810	109	7.4	30.0	7.8
25...	810	810	84	7.3	34.0	8.4
AUG						
01...	810	810	160	7.4	28.0	5.8
08...	810	810	114	7.5	30.0	10.2
15...	810	810	127	7.5	30.0	5.8
22...	810	810	137	7.4	26.0	7.5
29...	810	810	145	7.4	30.0	5.4
SEP						
07...	810	810	118	7.6	30.0	10.4
12...	810	810	149	7.6	27.0	4.7
19...	810	810	196	7.4	3.0	4.2
28...	810	810	144	7.5	21.0	6.6

07357500 LAKE OUACHITA NEAR HOT SPRINGS, 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 34°34'20", long 93°11'50", in NE¼ sec.12, T.2 S., R.21 W., Garland County, Hydrologic Unit 08040101, 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 mi^2 (2,962 km^2).

WATER-QUALITY RECORDS
(See next page)

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
NOV							
03...	810	810	.0	64	7.3	15.5	8.5
03...	810	810	6.6	68	7.2	15.5	8.4
03...	810	810	13	70	7.2	15.5	8.1
03...	810	810	20	70	7.2	15.5	7.9
03...	810	810	26	70	7.2	15.5	7.9
03...	810	810	33	70	7.2	15.5	7.8
03...	810	810	39	72	7.2	15.5	7.7
03...	810	810	46	72	7.2	15.5	7.7
03...	810	810	52	73	7.1	15.0	4.9
03...	810	810	59	76	6.7	12.5	2.0
03...	810	810	66	79	6.7	10.0	2.7
03...	810	810	72	77	6.7	10.0	2.5
03...	810	810	79	77	6.7	9.0	2.8
03...	810	810	85	78	6.7	8.5	3.9
03...	810	810	92	79	6.7	8.0	4.0
03...	810	810	98	79	6.7	8.0	4.0
03...	810	810	105	81	6.7	8.0	3.9
03...	810	810	112	85	6.7	8.0	3.7
03...	810	810	118	89	6.7	8.0	3.3
03...	810	810	125	89	6.7	8.0	3.2
03...	810	810	131	92	6.7	8.0	3.2
03...	810	810	138	89	6.6	8.0	3.2
03...	810	810	144	89	6.7	8.0	3.2
03...	810	810	151	92	6.7	7.5	3.2
03...	810	810	157	92	6.7	7.5	3.2
03...	810	810	164	103	6.7	7.5	3.2
03...	810	810	170	106	6.7	7.5	3.2
03...	810	810	177	197	6.7	7.5	.2
DEC							
15...	810	810	.0	64	6.9	9.0	9.6
15...	810	810	6.6	64	6.9	9.0	9.6
15...	810	810	13	66	6.9	9.0	9.3
15...	810	810	20	68	6.9	9.0	9.2
15...	810	810	26	68	6.9	9.0	8.9
15...	810	810	33	68	6.9	9.0	8.9
15...	810	810	39	71	6.8	9.0	8.9
15...	810	810	46	74	6.8	9.0	9.0
15...	810	810	52	75	6.8	9.0	8.9
15...	810	810	59	77	6.8	9.0	8.9
15...	810	810	66	77	6.8	9.0	8.8
15...	810	810	72	79	6.8	9.0	3.7
15...	810	810	79	79	6.6	8.0	3.0
15...	810	810	85	79	6.6	8.0	3.1
15...	810	810	92	80	6.6	8.0	3.1
15...	810	810	98	81	6.6	7.5	3.1
15...	810	810	105	83	6.5	7.5	3.1
15...	810	810	112	84	6.5	7.5	3.0
15...	810	810	118	87	6.5	7.5	2.7
15...	810	810	125	88	6.5	7.5	2.7
15...	810	810	131	91	6.5	7.5	2.6
15...	810	810	138	92	6.5	7.5	2.6
15...	810	810	144	106	6.5	7.5	2.4
JAN							
25...	810	810	.0	54	6.9	6.0	9.6
25...	810	810	6.6	54	6.9	5.5	9.5
25...	810	810	13	57	6.9	5.5	9.5
25...	810	810	20	57	6.9	5.5	9.5
25...	810	810	26	58	6.9	5.5	9.5
25...	810	810	33	61	6.9	5.5	9.5
25...	810	810	39	61	6.9	5.5	9.6
25...	810	810	46	61	6.9	5.5	9.5
25...	810	810	52	61	6.9	5.5	9.5
25...	810	810	59	65	6.9	5.5	9.5
25...	810	810	66	67	6.9	5.5	9.5
25...	810	810	72	68	6.9	5.5	9.5
25...	810	810	79	68	6.9	5.5	9.2
25...	810	810	85	68	6.9	5.5	9.4
25...	810	810	92	69	6.9	5.5	9.4
25...	810	810	98	69	6.0	5.0	9.3
25...	810	810	105	69	6.9	5.5	9.3
25...	810	810	112	69	6.8	5.5	9.3
25...	810	810	118	75	6.8	5.5	9.3
25...	810	810	125	75	6.8	5.5	9.3
25...	810	810	131	75	6.8	5.0	9.2
25...	810	810	138	79	6.8	5.0	9.2
25...	810	810	144	79	6.8	5.0	.7

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
MAR							
08...	810	810	.0	74	7.2	12.0	14.0
08...	810	810	6.6	76	7.2	11.0	10.5
08...	810	810	13	77	7.2	10.0	10.5
08...	810	810	20	76	7.2	10.0	10.2
08...	810	810	26	75	7.2	9.0	10.0
08...	810	810	33	77	7.2	9.0	10.2
08...	810	810	39	79	7.0	8.5	10.0
08...	810	810	46	80	6.7	8.0	10.0
08...	810	810	52	80	6.7	8.0	10.0
08...	810	810	59	79	6.7	8.0	10.0
08...	810	810	66	79	6.7	8.0	10.5
08...	810	810	72	79	6.7	8.0	10.0
08...	810	810	79	78	6.7	7.5	9.5
08...	810	810	85	80	6.7	7.0	9.5
08...	810	810	92	81	6.7	7.0	9.6
08...	810	810	98	80	6.7	7.0	9.4
08...	810	810	105	80	6.7	7.0	9.4
08...	810	810	112	84	6.7	7.0	9.4
08...	810	810	118	86	6.7	7.0	9.4
08...	810	810	125	84	6.7	7.0	9.4
08...	810	810	131	81	6.7	7.0	9.4
08...	810	810	138	82	6.7	6.5	9.2
08...	810	810	144	82	6.7	6.5	9.2
08...	810	810	151	80	6.7	6.5	9.2
08...	810	810	157	80	6.7	6.5	9.2
08...	810	810	164	80	6.7	6.5	9.2
08...	810	810	170	80	6.7	6.5	9.0
APR							
06...	810	810	.0	59	7.2	18.0	10.8
06...	810	810	6.6	60	7.2	16.0	10.5
06...	810	810	13	61	7.2	15.0	10.4
06...	810	810	20	61	7.2	15.0	10.2
06...	810	810	26	62	7.2	15.0	10.2
06...	810	810	33	62	7.2	15.0	10.2
06...	810	810	39	65	7.1	15.0	10.2
06...	810	810	46	65	7.1	15.0	10.2
06...	810	810	52	65	7.0	15.0	10.2
06...	810	810	59	65	7.0	14.5	10.2
06...	810	810	66	66	6.9	14.0	10.2
06...	810	810	72	66	6.9	13.0	10.2
06...	810	810	79	64	6.9	12.5	10.2
06...	810	810	85	66	6.9	11.0	10.2
06...	810	810	92	66	6.6	10.0	10.0
06...	810	810	98	64	6.6	9.5	10.0
06...	810	810	105	64	6.6	9.5	10.0
06...	810	810	112	64	6.6	9.0	9.7
06...	810	810	118	64	6.6	8.5	9.5
06...	810	810	125	65	6.6	8.5	9.5
06...	810	810	131	64	6.6	8.0	9.4
06...	810	810	138	64	6.6	8.0	9.4
06...	810	810	144	64	6.6	8.0	9.2
06...	810	810	151	63	6.6	8.0	9.4
06...	810	810	157	63	6.7	8.0	6.8
06...	810	810	164	64	6.7	8.0	6.8
06...	810	810	170	64	6.7	8.0	6.0
MAY							
18...	810	810	.0	61	7.3	24.0	8.5
18...	810	810	6.6	62	7.2	23.5	8.4
18...	810	810	13	64	7.2	22.0	8.6
18...	810	810	20	65	7.2	20.0	8.7
18...	810	810	26	67	7.0	15.0	8.4
18...	810	810	33	70	7.0	12.5	8.5
18...	810	810	39	72	6.9	12.0	8.5
18...	810	810	46	74	6.9	11.5	8.5
18...	810	810	52	75	6.8	11.0	8.5
18...	810	810	59	76	6.8	10.5	8.5
18...	810	810	66	77	6.8	9.0	8.8
18...	810	810	72	79	6.8	8.0	8.9
18...	810	810	79	79	6.8	7.5	9.0
18...	810	810	85	81	6.8	7.0	9.1
18...	810	810	92	83	6.7	6.5	9.1
18...	810	810	98	84	6.7	6.0	9.1
18...	810	810	105	86	6.5	6.0	9.0
18...	810	810	112	88	6.5	6.0	8.8
18...	810	810	118	90	6.6	5.5	8.7
18...	810	810	125	91	6.6	5.5	8.6
18...	810	810	131	93	6.6	5.0	8.6
18...	810	810	138	93	6.6	5.0	8.4
18...	810	810	144	94	6.5	5.0	8.4
JUN							
29...	810	810	.0	62	7.3	29.0	8.2
29...	810	810	6.6	64	7.3	28.5	7.8
29...	810	810	13	61	7.3	28.5	7.6

07357500 LAKE OUACHITA NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
JUN							
29...	810	810	20	58	7.2	27.0	7.7
29...	810	810	26	66	7.1	18.0	6.8
29...	810	810	33	71	7.0	13.0	7.6
29...	810	810	39	72	6.7	12.0	8.4
29...	810	810	46	73	6.7	11.0	8.3
29...	810	810	52	77	6.7	9.5	8.3
29...	810	810	59	77	6.7	9.0	8.7
29...	810	810	66	79	6.7	8.0	9.0
29...	810	810	72	79	6.7	8.0	9.0
29...	810	810	79	80	6.7	7.0	9.2
29...	810	810	85	81	6.7	6.0	9.3
29...	810	810	92	81	6.7	6.0	9.3
29...	810	810	98	82	6.7	5.5	9.2
29...	810	810	105	85	6.7	5.5	9.4
29...	810	810	112	85	6.7	5.0	9.0
29...	810	810	118	88	6.7	5.0	9.0
29...	810	810	125	89	6.6	5.0	8.8
29...	810	810	131	93	6.6	5.0	8.7
29...	810	810	138	93	6.6	5.0	8.6
29...	810	810	144	93	6.6	5.0	8.5
29...	810	810	151	96	6.6	5.0	8.4
29...	810	810	157	96	6.6	5.0	8.4
29...	810	810	164	96	6.6	5.0	8.4
29...	810	810	170	96	6.6	5.0	8.3
29...	810	810	177	99	6.6	5.0	8.3
AUG							
02...	810	810	.0	56	7.2	29.0	6.8
02...	810	810	6.6	56	7.2	29.0	6.8
02...	810	810	13	56	7.2	28.5	6.8
02...	810	810	20	56	7.2	28.5	6.5
02...	810	810	26	61	7.0	26.0	6.5
02...	810	810	33	62	6.7	18.5	7.3
02...	810	810	39	60	6.7	17.0	7.3
02...	810	810	46	60	6.7	16.0	6.8
02...	810	810	52	66	6.7	14.0	7.4
02...	810	810	59	67	6.7	13.0	7.4
02...	810	810	66	68	6.7	12.0	7.8
02...	810	810	72	69	6.7	11.0	8.2
02...	810	810	79	70	6.7	10.5	8.5
02...	810	810	85	70	6.7	10.0	8.2
02...	810	810	92	74	6.7	10.0	8.2
02...	810	810	98	77	6.6	10.0	8.1
02...	810	810	105	77	6.6	10.0	8.0
02...	810	810	112	77	6.6	9.0	7.5
02...	810	810	118	77	6.6	9.0	7.6
02...	810	810	125	77	6.6	9.0	7.2
02...	810	810	131	77	6.6	9.0	7.3
02...	810	810	138	80	6.6	9.0	7.0
02...	810	810	144	81	6.6	8.5	6.8
02...	810	810	151	84	6.6	8.5	6.8
02...	810	810	157	84	6.6	8.5	6.7
02...	810	810	164	84	6.6	8.5	6.5
02...	810	810	170	88	6.6	8.5	6.5
02...	810	810	177	91	6.6	8.5	2.5
SEP							
08...	810	810	.0	63	7.3	30.5	6.8
08...	810	810	6.6	64	7.3	30.0	7.2
08...	810	810	13	64	7.3	29.5	6.2
08...	810	810	20	64	7.3	29.5	6.3
08...	810	810	26	66	6.7	28.5	5.2
08...	810	810	33	74	6.6	21.5	4.3
08...	810	810	39	75	6.6	16.0	5.8
08...	810	810	46	74	6.6	14.0	6.4
08...	810	810	52	74	6.7	12.5	6.8
08...	810	810	59	75	6.6	11.0	6.2
08...	810	810	66	77	6.6	10.0	6.7
08...	810	810	72	77	6.6	10.0	6.4
08...	810	810	79	80	6.6	9.0	6.5
08...	810	810	85	82	6.6	8.0	7.5
08...	810	810	92	86	6.6	7.5	7.3
08...	810	810	98	86	6.6	7.0	7.3
08...	810	810	105	89	6.6	7.0	7.2
08...	810	810	112	94	6.6	6.5	6.8
08...	810	810	118	94	6.6	6.0	6.7
08...	810	810	125	94	6.6	6.0	6.6
08...	810	810	131	94	6.6	6.0	6.5
08...	810	810	138	94	6.6	6.0	6.2
08...	810	810	144	94	6.6	6.0	6.2
08...	810	810	151	94	6.6	6.0	6.2
08...	810	810	157	97	6.6	6.0	6.2
08...	810	810	164	97	6.6	6.0	6.0
08...	810	810	170	97	6.6	6.0	6.0
08...	810	810	177	100	6.6	6.0	5.8

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR

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

LOCATION.--Lat 34°34'18", long 93°11'37", in SE¼ sec.12, T.2 S., R.21 W., Garland County, Hydrologic Unit 080401 on outlet of power tunnel at Blakely Mountain Dam, 2.3 mi (3.7 km) upstream from Glzypeau 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-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., and Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
OCT										
05...	810	810	--	38	6.8	11.0	--	4.3	--	--
12...	810	810	--	39	6.6	13.5	--	6.0	--	--
19...	9827	9827	4000	59	7.2	16.0	--	5.9	59	1.4
19...	810	810	--	40	6.8	12.0	--	5.4	--	--
26...	810	810	--	47	6.6	12.0	--	4.8	--	--
NOV										
02...	810	810	--	63	7.1	13.0	--	5.8	--	--
09...	810	810	--	37	6.7	12.0	--	6.4	--	--
15...	810	810	--	41	6.7	10.0	--	8.0	--	--
22...	810	810	--	35	7.0	12.0	--	8.6	--	--
23...	9827	9827	1500	63	7.5	15.0	0	8.4	82	1.7
30...	810	810	--	15	6.8	10.0	--	11.2	--	--
DEC										
06...	810	810	--	45	6.7	10.0	--	9.0	--	--
14...	9827	9827	20	59	7.2	14.0	0	8.3	80	.3
14...	810	810	--	64	6.9	9.0	--	9.2	--	--
20...	810	810	--	53	6.7	7.5	--	10.6	--	--
27...	810	810	--	70	7.1	10.0	--	9.4	--	--
JAN										
04...	810	810	--	61	6.7	6.0	--	8.6	--	--
12...	810	810	--	66	6.7	5.0	--	11.2	--	--
17...	810	810	--	154	7.3	3.0	--	11.6	--	--
24...	9827	9827	20	69	7.5	14.0	0	11.4	110	1.9
25...	810	810	--	45	6.6	9.0	--	18.0	--	--
31...	810	810	--	91	6.4	7.5	--	10.2	--	--
FEB										
07...	810	810	--	74	6.8	12.0	--	9.8	--	--
15...	810	810	--	26	6.7	9.0	--	10.6	--	--
15...	9827	9827	20	70	7.4	11.0	0	11.3	102	1.0
22...	810	810	--	155	6.4	9.0	--	10.2	--	--
MAR										
07...	810	810	--	82	6.9	10.5	--	10.8	--	--
14...	810	810	--	65	6.7	8.5	--	11.8	--	--
15...	--	--	3400	--	--	--	--	--	--	--
15...	9827	9827	--	62	7.5	16.0	5	12.1	121	2.6
21...	810	810	--	85	6.9	13.0	--	9.0	--	--
24...	810	810	--	66	6.7	10.0	--	10.6	--	--
APR										
04...	810	810	--	104	7.2	16.5				
11...	810	810								

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TEMPER-ATURE (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
APR										
18...	810	810	--	51	7.0	13.0	--	6.8	--	--
19...	9827	9827	20	88	7.6	16.0	10	10.0	100	2.6
25...	810	810	--	62	7.0	11.5	--	7.8	--	--
MAY										
02...	810	810	--	120	7.4	23.0	--	8.6	--	--
08...	810	810	--	66	7.1	22.0	--	6.6	--	--
17...	810	810	--	128	7.0	22.0	--	9.0	--	--
17...	9827	9827	20	68	7.4	19.0	5	--	112	--
23...	810	810	--	69	7.1	25.0	--	5.8	--	--
30...	810	810	--	68	7.0	25.0	--	7.0	--	--
JUN										
05...	810	810	--	69	6.9	25.5	--	7.7	--	--
13...	810	810	--	56	7.0	28.0	--	7.2	--	--
14...	9827	9827	20	62	7.3	29.0	5	8.5	109	2.4
21...	810	810	--	53	6.7	14.0	--	9.5	--	--
28...	810	810	--	88	7.0	24.0	--	8.6	--	--
JUL										
06...	810	810	--	78	6.9	26.0	--	5.8	--	--
19...	810	810	--	37	6.9	29.5	--	7.0	--	--
19...	9827	9827	2000	65	7.3	19.0	5	8.5	90	3.2
25...	810	810	--	27	7.0	30.0	--	11.2	--	--
AUG										
01...	810	810	--	72	7.0	26.0	--	7.5	--	--
08...	810	810	--	38	7.0	27.0	--	9.8	--	--
15...	810	810	--	35	6.8	11.5	--	8.2	--	--
22...	810	810	--	41	7.0	29.0	--	7.0	--	--
23...	9827	9827	20	63	7.5	28.0	0	8.4	106	2.5
29...	810	810	--	36	7.1	30.0	--	4.7	--	--
SEP										
07...	810	810	--	54	7.1	29.5	--	7.4	--	--
12...	810	810	--	38	6.7	27.0	--	6.5	--	--
19...	810	810	--	37	6.7	12.0	--	7.2	--	--
20...	9827	9827	20	66	7.4	24.0	0	8.7	102	1.9
28...	810	810	--	45	6.9	18.0	--	12.8	--	--

DATE	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)	TOTAL CAL-CIUM (CA) (MG/L) (00916)	DIS-SOLVED CAL-CIUM (CA) (MG/L) (00915)	TOTAL MAG-NE-SIUM (MG) (MG/L) (00927)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)
OCT										
19...	50	13	85	46	21	--	10	--	5.0	1.9
NOV										
23...	--	10	--	--	--	--	--	--	--	--
DEC										
14...	270	<4	--	--	--	--	--	--	--	--
JAN										
24...	15	<4	<4	38	9	--	10	--	3.0	1.7
FEB										
15...	170	4	<4	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
19...	--	--	--	26	--	8.7	--	1.0	--	2.2
MAY										
17...	97	20	--	--	--	--	--	--	--	--
JUN										
14...	--	93	--	--	--	7.0	--	2.0	--	2.5
JUL										
19...	820	340	--	--	--	--	--	--	--	--
AUG										
23...	1000	160	--	--	--	--	--	--	--	--
SEP										
20...	3200	600	--	--	--	--	--	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)
OCT										
19...	.6	31	--	25	3.1	2.0	4.5	37	--	.15
NOV										
23...	--	--	--	--	--	3.0	5.0	46	2	<.10
DEC										
14...	--	--	--	--	--	3.0	3.5	40	6	<.10
JAN										
24...	.7	35	0	29	1.8	3.0	4.5	43	2	<.10
FEB										
15...	--	--	--	--	--	3.0	3.5	50	1	<.10
MAR										
15...	--	--	--	--	--	2.0	4.0	47	9	--
APR										
19...	.9	--	--	--	--	4.0	3.0	57	7	.10
MAY										
17...	--	--	--	--	--	4.0	4.0	39	2	--
JUN										
14...	.8	--	--	--	--	--	9.0	45	4	<.05
JUL										
19...	--	--	--	--	--	4.0	3.5	46	2	.11
AUG										
23...	--	--	--	--	--	1.0	4.0	43	5	<.05
SEP										
20...	--	--	--	--	--	4.0	4.0	--	3	<.05

DATE	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	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										
19...	--	--	<.01	--	<10	<3	<10	<20	<10	<27
NOV										
23...	--	--	.01	--	--	--	--	--	--	--
DEC										
14...	--	--	.01	--	--	--	--	--	--	--
JAN										
24...	--	--	<.01	<3	<10	<3	<10	110	<10	280
FEB										
15...	--	--	<.01	--	--	--	--	--	--	--
MAR										
15...	--	--	<.01	--	--	--	--	--	--	--
APR										
19...	--	.10	.03	<10	<10	<3	<10	260	--	25
MAY										
17...	--	.05	.02	--	--	--	--	--	--	--
JUN										
14...	.00	.00	.02	--	<10	<3	<10	260	<10	28
JUL										
19...	.00	.06	.10	--	--	--	--	--	--	--
AUG										
23...	<.05	.02	.03	--	--	--	--	--	--	--
SEP										
20...	<.05	<.05	.03	--	--	--	--	--	--	--

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL MERCURY (HG) (UG/L) (71900)	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										
19...	<.5	<10	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	--	--	--
DEC										
14...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
24...	--	<10	--	--	--	--	--	--	--	--
FEB										
15...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
19...	--	<10	--	--	--	--	--	--	--	--
MAY										
17...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	--	60	--	--	--	--	--	--	--	--
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
23...	--	--	--	--	--	--	--	--	--	--
SEP										
20...	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040101, 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, 183,900 acre-ft (227 hm^3) Aug. 31, elevation, 399.10 ft (121.646 m); minimum observed, 157,400 acre-ft (194 hm^3) Dec. 31, elevation, 394.96 ft (120.384 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	399.03	183,400	-
OCT. 31	399.03	183,400	0
NOV. 30	395.01	157,700	-25,700
DEC. 31	394.96	157,400	-300
CALENDAR YEAR 1976	-	-	-1,100
JAN. 31	395.03	157,800	+400
FEB. 28	395.16	158,700	+900
MAR. 31	398.53	180,100	+21,400
APR. 30	398.12	177,400	-2,700
MAY 31	398.82	182,000	+4,600
JUNE 30	398.98	183,000	+1,000
JULY 31	399.04	183,400	+400
AUG. 31	399.10	183,900	+500
SEPT. 30	398.98	183,000	-900
WATER YEAR 1977	-	-	-400

† 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, Hydrologic Unit 08040101, 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 mi² (3,732 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
19...	9827	9827	4910	59	7.2	16.0	--	9.8	1.7	360	500	50
NOV												
23...	9827	9827	4240	63	7.5	16.0	0	9.2	1.5	--	--	--
23...	9827	9827	--	--	--	--	--	--	--	--	--	--
DEC												
14...	9827	9827	3560	54	7.6	13.0	5	13.0	2.5	1100	--	--
JAN												
24...	9827	9827	.00	52	7.3	16.0	0	12.4	2.0	85	<5	32
FEB												
15...	9827	9827	.00	63	7.5	14.0	0	12.9	3.2	230	10	--
MAR												
15...	9827	9827	--	56	7.4	19.0	5	12.1	2.7	--	--	--
15...	--	--	.00	--	--	--	--	--	--	--	--	--
APR												
19...	9827	9827	5080	61	7.3	17.0	5	9.8	.9	--	--	13
MAY												
17...	9827	9827	3390	64	7.2	20.0	5	--	--	90	--	--
JUN												
14...	9827	9827	3220	85	7.0	19.0	10	6.5	2.1	--	--	--
JUL												
19...	9827	9827	1690	62	7.0	20.0	5	2.8	1.5	--	--	--
AUG												
23...	9827	9827	3390	75	6.9	24.0	0	3.3	>3.3	140	--	--
SEP												
20...	9827	9827	3900	54	7.1	20.0	0	4.1	2.7	790	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (00927)	DISSOLVED MAGNESIUM (MG) (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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	26	--	10	--	5.1	2.2	.6	29	--	24	2.0
NOV											
23...	--	--	--	--	--	--	--	--	--	--	4.0
23...	--	--	--	--	--	--	--	--	--	--	--
DEC											
14...	--	--	--	--	--	--	--	--	--	--	3.0
JAN											
24...	13	--	6.0	--	4.0	2.2	.7	23	0	19	4.0
FEB											
15...	--	--	--	--	--	--	--	--	--	--	3.0
MAR											
15...	--	--	--	--	--	--	--	--	--	--	5.0
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	3.6	--	.8	--	2.2	.7	--	--	--	3.0
MAY											
17...	--	--	--	--	--	--	--	--	--	--	5.0
JUN											
14...	--	7.0	--	2.0	--	4.9	1.2	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	4.0
AUG											
23...	--	--	--	--	--	--	--	--	--	--	1.0
SEP											
20...	--	--	--	--	--	--	--	--	--	--	4.0

07358501 OUACHITA RIVER AT CARPENTER DAM, NEAR HOT SPRINGS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
19...	3.5	42	2	.13	--	--	.02	--	<10	<3	<10	50
NOV												
23...	4.5	44	10	<.10	--	--	.01	--	--	--	--	--
DEC												
14...	4.0	41	--	<.10	--	--	.03	--	--	--	--	--
JAN												
24...	4.5	32	1	<.10	--	--	<.01	<3	20	<3	30	40
FEB												
15...	5.0	41	6	.10	--	--	.04	--	--	--	--	--
MAR												
15...	4.0	47	6	--	--	--	.02	--	--	--	--	--
APR												
19...	3.0	38	50	<.10	--	.12	<.01	<10	<10	<3	<10	120
MAY												
17...	3.5	37	9	--	--	.05	.03	--	--	--	--	--
JUN												
14...	7.5	65	4	.27	.01	.15	.01	--	<10	<3	<10	210
JUL												
19...	4.5	44	4	.18	.00	.04	.09	--	--	--	--	--
AUG												
23...	6.0	50	4	.07	<.05	.14	.04	--	--	--	--	--
SEP												
20...	4.5	--	2	.08	<.05	.17	.04	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
19...	<10	69	<.5	<10	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN												
24...	<10	<27	--	<10	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
19...	--	17	--	<10	--	--	--	--	--	--	--	--
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	<10	100	--	<10	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040102, 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, 34,330 acre-ft (42.3 hm^3) Nov. 30, elevation, 304.52 ft (92.818 m); minimum observed, 24,940 acre-ft (30.8 hm^3) Dec. 31, elevation, 299.00 ft (91.135 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30	304.26	33,840	-
OCT. 31	303.93	33,210	-630
NOV. 30	304.52	34,330	+1,120
DEC. 31	299.00	24,940	-9,390
CALENDAR YEAR 1976	-	-	-260
JAN. 31	299.15	25,170	+230
FEB. 28	304.17	33,660	+8,490
MAR. 31	304.40	34,100	+440
APR. 30	304.05	33,440	-660
MAY 31	304.12	33,570	+130
JUNE 30	304.00	33,340	-230
JULY 31	304.10	33,530	+190
AUG. 31	304.00	33,340	-190
SEPT. 30	303.99	33,320	-20
WATER YEAR 1977	-	-	-520

† Elevation at 2400 hours.

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, Hydrologic Unit 08040102, 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: 1903-4.

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.--50 years (1925-26, 1928-77), 2,364 ft^3/s (66.9 m^3/s), 1,713,000 acre-ft/yr (2,110 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, 34 ft^3/s (0.96 m^3/s) May 15, 1977, gage height, 0.33 ft (0.101 m); minimum daily observed, 40 ft^3/s (1.13 m^3/s) Dec. 18-20, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,200 ft^3/s (1,280 m^3/s) Mar. 3, gage height, 19.64 ft (5.986 m); minimum, 34 ft^3/s (0.96 m^3/s) May 15, gage height 0.33 ft (0.101 m); minimum daily, 280 ft^3/s (7.93 m^3/s) May 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2590	2370	3440	610	499	559	9030	552	454	565	1070	1780
2	2400	3440	2620	516	464	2000	6730	955	848	470	442	1090
3	1850	3440	2420	431	1160	18200	8440	1010	1140	499	442	1010
4	1790	2350	2740	481	803	12600	9940	1360	840	534	559	987
5	2530	2780	1330	404	1310	3220	8540	1620	480	553	448	738
6	1830	1010	2240	442	559	2200	8370	1490	476	906	973	1170
7	2880	866	2450	437	1010	2660	7010	1340	424	1010	657	1240
8	2310	2160	2260	464	493	2220	6720	1930	451	493	650	771
9	630	1430	2020	874	671	1370	7200	926	440	453	650	611
10	394	1610	1900	3030	534	1710	6120	798	630	604	522	436
11	1820	2120	2970	2180	1120	3480	6840	974	715	553	437	423
12	1930	3260	2340	522	4160	1540	6530	893	603	664	431	469
13	2170	2800	3290	1840	1540	404	6870	856	526	1660	493	1040
14	1950	2700	2820	3680	1170	617	5300	291	441	1130	664	960
15	1680	3050	2600	2250	1210	657	3250	280	552	1090	2390	1040
16	1660	2790	1550	1620	1020	1160	2710	815	620	803	1340	703
17	2460	2980	472	2570	650	1190	2160	376	3300	464	597	996
18	2220	3110	544	1880	459	1570	4590	448	2820	1130	487	669
19	2620	3200	540	2700	505	685	6360	712	597	1330	448	759
20	2590	1890	1820	1040	470	939	5670	468	898	882	453	788
21	2030	466	2990	1210	505	442	5960	443	1120	1340	442	856
22	2040	2260	1150	750	481	505	6830	585	1240	559	565	1050
23	2300	2980	404	874	1910	476	3970	505	714	442	453	947
24	2500	2380	486	630	866	750	1930	429	572	448	431	1060
25	5500	1910	492	931	476	499	3770	807	481	541	750	1030
26	3500	2240	474	692	1750	470	2330	1590	459	456	505	1190
27	3330	1850	477	578	706	3250	1430	1040	1540	453	426	1730
28	3470	2390	450	1180	481	14000	782	734	842	442	426	1170
29	3480	2760	506	758	---	9750	567	432	780	453	470	668
30	2320	3420	448	499	---	8280	717	957	1080	964	541	639
31	788	---	1510	617	---	6370	---	1410	---	811	1170	---
TOTAL	71562	72012	51753	36690	26982	103773	156666	27026	26083	22702	20332	28020
MEAN	2308	2400	1669	1184	964	3348	5222	872	869	732	656	934
MAX	5500	3440	3440	3680	4160	18200	9940	1930	3300	1660	2390	1780
MIN	394	466	404	404	459	404	567	280	424	442	426	423
AC-FT	141900	142800	102700	72770	53520	205800	310700	53610	51740	45030	40330	55580

CAL YR 1976 TOTAL 484231 MEAN 1323 MAX 11500 MIN 251 AC-FT 960500
WTR YR 1977 TOTAL 643601 MEAN 1763 MAX 18200 MIN 280 AC-FT 1277000

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
27...	9827	9827	--	3210	114	7.2	14.0	5	7.1	.8	560	120
NOV												
03...	1028	1028	--	3450	--	--	15.0	--	--	--	--	--
30...	9827	9827	--	3370	141	7.1	11.0	5	9.9	1.6	300	--
DEC												
21...	9827	9827	--	630	273	7.0	7.0	5	8.2	4.1	80	--
29...	1028	1028	--	128	--	--	9.5	--	--	--	--	--
JAN												
17...	9827	9827	--	--	--	--	--	--	--	--	200	<4
18...	9827	9827	--	2290	164	7.3	5.0	10	11.7	2.2	--	--
FEB												
14...	1028	1028	--	247	--	--	3.0	--	--	--	--	--
15...	9827	9827	--	3180	--	--	--	--	--	--	110	<5
MAR												
25...	1028	1028	--	129	--	--	8.0	--	--	--	--	--
30...	9827	9827	--	4270	102	7.1	17.0	15	10.0	1.9	--	--
APR												
19...	9827	9827	6360	--	111	7.0	17.0	20	9.1	3.0	--	--
MAY												
11...	1028	1028	--	179	--	--	15.0	--	--	--	--	--
23...	9827	9827	--	--	--	--	--	--	--	--	90	--
24...	9827	9827	429	--	169	6.5	24.0	5	5.6	1.6	--	--
JUN												
20...	9827	9827	--	--	--	--	--	--	--	--	--	--
21...	9827	9827	--	76	221	7.1	25.0	0	7.3	1.4	--	--
JUL												
20...	9827	9827	--	--	--	--	--	--	--	--	7700	--
21...	9827	9827	--	108	109	6.9	26.0	10	5.2	.7	--	--
28...	1028	1028	--	64	--	--	26.0	--	--	--	--	--
AUG												
17...	9827	9827	--	86	--	7.0	30.0	--	7.0	.7	2000	--
SEP												
07...	1028	1028	--	88	--	--	24.5	--	--	--	--	--
14...	9827	9827	--	--	--	--	--	--	--	--	1500	--
15...	9827	9827	--	95	253	6.3	24.0	0	4.0	.7	--	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT												
27...	--	--	--	--	--	--	--	--	--	--	--	7.0
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
30...	60	36	--	18	--	3.0	4.4	1.7	29	0	24	5.0
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	41
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	9.0
FEB												
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	7.0
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	19
MAY												
11...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	7.0	--	2.0	--	16	3.8	--	--	--	29
JUN												
20...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	12
JUL												
20...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	15
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	--	--	11	--	2.0	--	7.3	1.8	--	--	--	7.0
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	50

07359500 OUACHITA RIVER NEAR MALVERN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
27...	19	91	--	.28	--	--	.02	--	--	--	<10	180
NOV												
30...	24	114	2	.12	--	--	.02	<3	<10	<3	<10	220
DEC												
21...	32	143	11	.60	--	--	.17	--	--	--	<10	50
JAN												
18...	14	92	12	.22	--	--	.09	--	--	--	<10	180
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
30...	15	83	12	.15	<.10	--	.04	--	--	--	<10	730
APR												
19...	14	99	108	.16	.10	.86	.25	--	--	--	20	2100
MAY												
24...	19	108	1	--	.06	.56	.05	--	<10	--	<10	320
JUN												
21...	27	106	8	.38	.01	.12	.04	--	--	--	--	30
JUL												
21...	12	79	4	.42	.01	.07	.12	--	--	--	<10	2600
AUG												
17...	23	--	2	.39	<.05	.08	--	--	20	--	<10	70
SEP												
15...	29	180	2	--	--	--	.06	--	--	--	150	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	160	--	<10	--	--	--	--	--	--	--	--
NOV												
30...	--	110	1.0	40	--	--	--	--	--	--	--	--
DEC												
21...	--	130	--	40	--	--	--	--	--	--	--	--
JAN												
18...	30	200	--	40	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
MAR												
30...	--	130	--	190	--	--	--	--	--	--	--	--
APR												
19...	--	340	--	40	--	--	--	--	--	--	--	--
MAY												
24...	<10	--	--	<10	--	--	--	--	--	--	--	--
JUN												
21...	--	130	--	60	--	--	--	--	--	--	--	--
JUL												
21...	--	--	--	480	--	--	--	--	--	--	--	--
AUG												
17...	10	--	--	--	--	--	--	--	--	--	--	--
SEP												
15...	--	690	--	30	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040102, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE FORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
26...	9827	9827	--	--	--	--	--	--	--	1000	690	--
NOV												
30...	9827	9827	4120	126	--	7.0	5	10.6	--	1500	--	62
JAN												
17...	9827	9827	--	123	7.2	3.0	5	12.0	2.7	--	--	--
FEB												
15...	9827	9827	--	111	7.0	7.0	5	11.1	1.9	210	15	40
MAR												
29...	9827	9827	--	139	6.9	18.0	50	8.3	4.7	--	--	--
APR												
19...	9827	9827	--	108	7.0	23.0	30	8.3	2.6	--	--	--
MAY												
24...	9827	9827	--	170	6.8	24.0	5	5.5	--	110	660	--
JUN												
20...	9827	9827	--	--	--	--	--	--	--	--	--	--
21...	9827	9827	--	120	7.1	26.0	5	6.6	.7	--	--	--
JUL												
20...	9827	9827	--	99	7.2	30.0	5	7.7	1.9	8200	--	--
AUG												
17...	9827	9827	--	--	7.1	29.0	--	7.3	.9	3300	--	--
SEP												
14...	9827	9827	--	158	7.2	25.0	10	7.3	1.2	3800	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	42	--	13	--	7.0	6.8	2.2	24	0	20	11
JAN											
17...	--	--	--	--	--	--	--	--	--	--	25
FEB											
15...	24	--	11	--	3.0	5.5	1.7	19	0	16	15
MAR											
29...	--	--	--	--	--	--	--	--	--	--	22
APR											
19...	--	--	--	--	--	--	--	--	--	--	13
MAY											
24...	--	7.0	--	2.0	--	16	3.2	--	--	--	29
JUN											
20...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	13
JUL											
20...	--	--	--	--	--	--	--	--	--	--	10
AUG											
17...	--	9.0	--	2.0	--	5.5	1.7	--	--	--	8.0
SEP											
14...	--	--	--	--	--	--	--	--	--	--	23

07359580 OUACHITA RIVER NEAR DONALDSON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
NOV												
30...	18	79	29	.52	--	--	.04	<3	<10	<3	<10	660
JAN												
17...	13	77	13	.23	--	--	.09	--	--	--	--	--
FEB												
15...	14	80	14	.33	--	--	.05	<3	<10	<3	<10	380
MAR												
29...	18	100	81	.28	<.10	--	.17	--	--	--	--	--
APR												
19...	12	79	105	.25	.18	.82	.23	--	--	--	--	--
MAY												
24...	18	106	1	--	.06	.56	.01	--	<10	--	<10	140
JUN												
21...	14	77	8	.40	.01	.09	.05	--	--	--	--	--
JUL												
20...	13	69	20	.31	.01	.07	.14	--	--	--	--	--
AUG												
17...	16	--	26	.35	<.05	.06	--	--	10	--	<10	230
SEP												
14...	20	99	12	--	--	--	.04	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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)
NOV												
30...	<10	120	.8	20	--	--	--	--	--	--	.00	0
JAN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	60	140	--	20	.00	.00	.00	.00	.00	.00	.00	0
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
24...	<10	--	--	<10	--	--	--	--	--	--	--	--
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	<10	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040102, 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., and Department of Pollution Control and Ecology, Little Rock, Ark.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
OCT										
05...	810	810	--	114	7.8	23.0	--	7.9	--	--
13...	810	810	--	85	7.7	19.0	--	9.2	--	--
18...	810	810	--	108	7.7	14.0	--	10.6	--	--
19...	9827	9827	53	115	7.7	18.0	--	9.4	99	1.7
27...	9827	9827	--	--	--	--	--	--	--	--
NOV										
03...	810	810	--	78	7.3	11.5	--	10.0	--	--
09...	810	810	--	87	7.4	11.0	--	11.6	--	--
15...	810	810	--	90	7.4	7.0	--	11.1	--	--
22...	810	810	--	79	7.2	8.0	--	11.1	--	--
23...	9827	9827	230	80	7.4	12.0	25	11.0	102	2.2
23...	9827	9827	--	--	--	--	--	--	--	--
DEC										
07...	810	810	--	53	7.3	5.0	--	12.3	--	--
14...	9827	9827	600	64	7.3	12.0	20	11.0	102	1.0
15...	810	810	--	63	7.0	6.5	--	10.2	--	--
20...	810	810	--	71	7.0	8.0	--	10.4	--	--
27...	810	810	--	84	7.1	4.5	--	12.4	--	--
JAN										
06...	810	810	--	84	7.0	2.0	--	12.5	--	--
11...	810	810	--	74	7.1	.0	--	15.2	--	--
17...	810	810	--	60	6.8	1.5	--	14.4	--	--
24...	810	810	--	71	7.1	3.5	--	12.6	--	--
24...	9827	9827	345	68	7.4	9.0	15	12.7	109	2.3
FEB										
01...	810	810	--	73	7.1	1.0	--	12.4	--	--
07...	810	810	--	78	7.1	3.5	--	12.6	--	--
14...	810	810	--	49	6.7	9.0	--	9.3	--	--
15...	9827	9827	700	55	7.3	10.0	30	12.0	106	1.5
21...	810	810	--	69	7.2	7.0	--	12.2	--	--
28...	810	810	--	75	7.1	8.0	--	11.8	--	--
MAR										
07...	810	810	--	46	7.7	9.0	--	11.4	--	--
13...	810	810	--	75	7.0	12.5	--	11.1	--	--
15...	9827	9827	345	71	7.5	20.0	15	10.8	117	1.4
20...	810	810	--	85	7.2	13.0	--	9.8	--	--
27...	810	810	--	45	6.4	15.0	--	8.8	--	--
APR										
03...	810	810	--	46	6.6	15.0	--	9.2	--	--
10...	810	810	--	57	6.9	18.5	--	9.5	--	--

07359770 CADDO RIVER NEAR AMITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)
APR										
19...	810	810	--	72	6.8	18.0	--	8.3	--	--
19...	9827	9827	1360	66	7.3	22.0	70	8.5	97	2.6
24...	810	810	--	69	7.0	17.0	--	9.3	--	--
MAY										
01...	810	810	--	89	7.3	20.0	--	8.7	--	--
08...	810	810	--	91	7.8	24.5	--	9.5	--	--
15...	810	810	--	101	7.4	25.5	--	7.8	--	--
17...	9827	9827	71	105	7.8	28.0	5	--	106	--
17...	9827	9827	--	--	--	--	--	--	--	--
23...	810	810	--	150	7.4	24.5	--	7.0	--	--
29...	810	810	--	118	7.4	28.0	--	7.6	--	--
JUN										
05...	810	810	--	139	7.8	30.0	--	8.7	--	--
12...	810	810	--	95	7.5	29.0	--	7.5	--	--
14...	9827	9827	132	86	7.4	29.0	20	7.4	95	2.4
19...	810	810	--	64	6.9	25.0	--	7.8	--	--
26...	810	810	--	77	7.1	27.0	--	7.4	--	--
JUL										
06...	810	810	--	112	7.7	33.0	--	8.5	--	--
16...	810	810	--	113	8.0	33.5	--	7.9	--	--
19...	9827	9827	33	108	7.7	31.0	5	6.9	92	1.6
23...	810	810	--	108	7.4	30.0	--	7.8	--	--
31...	810	810	--	70	6.9	26.0	--	6.8	--	--
AUG										
09...	810	810	--	103	7.8	29.5	--	9.6	--	--
14...	810	810	--	110	7.6	30.0	--	6.2	--	--
21...	810	810	--	115	7.7	29.0	--	7.7	--	--
23...	9827	9827	44	115	7.8	30.0	0	7.7	101	--
28...	810	810	--	117	7.7	29.0	--	7.1	--	--
SEP										
04...	810	810	--	123	7.6	28.0	--	6.8	--	--
12...	810	810	--	113	7.3	26.5	--	6.9	--	--
18...	810	810	--	119	7.3	25.0	--	6.3	--	--
20...	9827	9827	42	109	7.9	28.0	0	9.5	120	3.1
28...	810	810	--	122	7.3	25.5	--	6.6	--	--

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)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	DISSOLVED MAGNESIUM (MG) (MG/L) (00925)	TOTAL SODIUM (NA) (MG/L) (00929)
OCT										
19...	260	13	25	80	29	--	24	--	5.0	2.3
27...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	--	--	--
23...	--	90	--	--	--	--	--	--	--	--
DEC										
14...	1400	130	--	--	--	--	--	--	--	--
JAN										
24...	260	21	8	40	14	--	10	--	4.0	2.2
FEB										
15...	650	63	48	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
19...	--	--	--	11	--	2.5	--	.6	--	2.9
MAY										
17...	--	--	--	--	--	--	--	--	--	--
17...	47	36	--	--	--	--	--	--	--	--
JUN										
14...	--	320	--	--	--	10	--	2.0	--	2.5
JUL										
19...	510	250	--	--	--	--	--	--	--	--
AUG										
23...	120	27	--	--	--	--	--	--	--	--
SEP										
20...	390	8	--	--	--	--	--	--	--	--

07359770 CADDO RIVER NEAR AMITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)
OCT										
19...	.7	62	--	51	2.0	4.0	5.0	71	2	.11
27...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	6.0	3.5	69	3	<.10
23...	--	--	--	--	--	--	--	--	--	--
DEC										
14...	--	--	--	--	--	6.0	3.5	49	11	.17
JAN										
24...	.5	32	0	26	2.0	5.0	4.5	47	2	.10
FEB										
15...	--	--	--	--	--	5.0	4.5	54	3	.13
MAR										
15...	--	--	--	--	--	6.0	4.0	67	5	--
APR										
19...	1.2	--	--	--	--	4.0	3.0	67	40	.11
MAY										
17...	--	--	--	--	--	6.0	4.0	55	6	--
17...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	1.1	--	--	--	--	--	4.0	70	17	.10
JUL										
19...	--	--	--	--	--	9.0	4.0	76	4	--
AUG										
23...	--	--	--	--	--	2.0	4.0	71	4	<.05
SEP										
20...	--	--	--	--	--	5.0	5.0	--	2	.02

DATE	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)	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										
19...	--	--	.02	--	<10	<3	<10	<20	<10	<27
27...	--	--	--	--	--	--	20	1000	--	--
NOV										
23...	--	--	.02	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
DEC										
14...	--	--	.04	--	--	--	--	--	--	--
JAN										
24...	--	--	.01	<3	10	<3	<10	250	<10	42
FEB										
15...	--	--	.03	--	--	--	--	--	--	--
MAR										
15...	--	--	.06	--	--	--	--	--	--	--
APR										
19...	--	.17	.10	<10	<10	<3	<10	1400	--	54
MAY										
17...	--	.04	.04	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	.00	.03	.04	--	<10	<3	20	870	<10	69
JUL										
19...	.00	.03	.11	--	--	--	--	--	--	--
AUG										
23...	<.05	.08	.03	--	--	--	--	--	--	--
SEP										
20...	<.05	.05	.06	--	--	--	--	--	--	--

07359770 CADDO RIVER NEAR AMITY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL MERCURY (HG) (UG/L) (71900)	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										
19...	<.5	<10	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
DEC										
14...	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN										
24...	--	<10	--	--	--	--	--	--	--	--
FEB										
15...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
19...	--	<10	--	--	--	--	--	--	--	--
MAY										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	--	190	--	--	--	--	--	--	--	--
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
23...	--	--	--	--	--	--	--	--	--	--
SEP										
20...	--	--	--	--	--	--	--	--	--	--

07359900 DEGRAY LAKE NEAR ARKADELPHIA, 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 34°12'54", long 93°06'46", in NW¼SW¼ sec.14, T.6 S., R.20 W., Clark County, Hydrologic Unit 08040102, 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-QUALITY RECORDS
(See next page)

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
NOV							
03...	810	810	.0	57	7.3	15.0	9.4
03...	810	810	6.6	57	7.3	15.0	9.1
03...	810	810	13	58	7.3	14.5	9.0
03...	810	810	20	60	7.3	14.0	8.6
03...	810	810	26	60	7.2	14.0	8.4
03...	810	810	33	61	7.1	14.0	8.2
03...	810	810	39	62	7.0	14.0	8.1
03...	810	810	46	63	6.6	12.0	1.7
03...	810	810	52	64	6.6	9.5	1.9
03...	810	810	59	64	6.5	9.0	2.0
03...	810	810	66	66	6.7	8.0	2.5
03...	810	810	72	66	6.8	8.0	2.5
03...	810	810	79	67	6.8	8.0	2.5
03...	810	810	85	68	6.8	8.0	2.7
03...	810	810	92	69	6.8	7.5	2.6
03...	810	810	98	71	6.8	7.5	2.7
03...	810	810	105	73	6.7	7.5	2.7
03...	810	810	112	74	6.7	7.5	2.5
03...	810	810	118	77	6.7	7.5	2.5
03...	810	810	125	78	6.7	7.5	2.3
03...	810	810	131	79	6.7	7.5	2.2
03...	810	810	138	79	6.6	7.5	1.9
03...	810	810	144	82	6.6	7.5	.3
03...	810	810	151	112	6.6	7.5	.1
03...	810	810	157	132	6.6	7.5	.1
03...	810	810	164	147	6.8	8.0	.1
03...	810	810	170	157	6.9	8.0	.1
03...	810	810	177	168	7.0	8.0	.1
17...	810	810	.0	70	6.8	15.0	8.6
17...	810	810	6.6	70	6.8	15.0	8.6
17...	810	810	13	78	6.8	15.0	8.6
17...	810	810	20	76	6.8	14.5	8.6
17...	810	810	26	77	6.8	14.0	8.3
17...	810	810	33	74	6.7	13.5	8.2
17...	810	810	39	75	6.4	10.5	1.9
17...	810	810	46	76	6.0	9.5	2.3
17...	810	810	52	82	6.5	9.0	2.6
17...	810	810	59	89	6.7	9.0	2.7
17...	810	810	66	90	6.4	8.5	2.7
17...	810	810	72	88	6.3	8.5	2.8
17...	810	810	79	88	6.4	8.5	2.7
17...	810	810	85	89	6.3	8.0	2.5
17...	810	810	92	89	6.3	8.0	2.4
17...	810	810	98	90	6.3	8.0	2.0
17...	810	810	105	90	6.3	8.0	1.8
17...	810	810	112	93	6.3	8.0	1.6
17...	810	810	118	93	6.3	8.0	1.5
17...	810	810	125	94	6.3	8.0	1.4
17...	810	810	131	96	6.3	8.0	.9
17...	810	810	138	115	6.3	8.0	.6
17...	810	810	144	136	6.3	8.0	.5
17...	810	810	151	148	6.5	8.0	.2
17...	810	810	157	162	6.6	8.0	.1
17...	810	810	164	172	6.7	8.0	.1
DEC							
15...	810	810	.0	57	6.6	8.5	7.9
15...	810	810	6.6	57	6.6	7.5	8.0
15...	810	810	13	59	6.6	7.5	7.8
15...	810	810	20	60	6.6	8.0	7.8
15...	810	810	26	62	6.6	8.0	7.7
15...	810	810	33	63	6.6	8.0	7.7
15...	810	810	39	64	6.6	8.0	7.7
15...	810	810	46	64	6.6	8.0	7.6
15...	810	810	52	66	6.6	8.0	7.5
15...	810	810	59	67	6.6	8.0	7.6
15...	810	810	66	67	6.6	8.0	7.6
15...	810	810	72	68	6.4	8.0	7.0
15...	810	810	79	69	6.2	8.0	.8
15...	810	810	85	71	6.0	8.0	.7
15...	810	810	92	73	6.0	8.0	.6
15...	810	810	98	75	6.0	8.0	.6
15...	810	810	105	76	6.0	8.0	.6
15...	810	810	112	77	6.0	8.0	.6
15...	810	810	118	79	6.0	8.0	.6
15...	810	810	125	80	6.0	8.0	.5
15...	810	810	131	81	6.0	8.0	.3
15...	810	810	138	90	5.8	7.5	.1
15...	810	810	144	92	6.0	7.5	.1
15...	810	810	151	106	6.4	7.5	.1

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
DEC							
15...	810	810	157	132	6.5	8.0	.1
15...	810	810	164	143	6.6	8.0	.1
JAN							
24...	810	810	.0	58	6.7	5.0	10.1
24...	810	810	6.6	59	6.7	5.0	9.9
24...	810	810	13	62	6.7	5.0	9.7
24...	810	810	20	64	6.7	5.0	9.6
24...	810	810	26	66	6.6	5.0	9.7
24...	810	810	33	67	6.6	5.0	9.4
24...	810	810	39	67	6.6	5.0	9.4
24...	810	810	46	67	6.6	5.0	9.3
24...	810	810	52	68	6.6	5.0	9.4
24...	810	810	59	70	6.6	5.0	9.2
24...	810	810	66	70	6.6	5.0	9.3
24...	810	810	72	71	6.6	5.0	9.4
24...	810	810	79	71	6.6	5.0	9.4
24...	810	810	85	71	6.6	5.0	9.4
24...	810	810	92	73	6.6	5.0	9.4
24...	810	810	98	75	6.6	5.0	9.4
24...	810	810	105	78	6.6	5.0	9.4
24...	810	810	112	79	6.6	5.0	9.4
24...	810	810	118	81	6.6	5.0	9.4
24...	810	810	125	81	6.6	5.0	9.5
24...	810	810	131	82	6.6	5.0	9.4
24...	810	810	138	82	6.6	5.0	9.4
24...	810	810	144	84	6.6	5.0	9.4
24...	810	810	151	84	6.6	5.0	9.4
24...	810	810	157	85	6.6	5.0	9.4
24...	810	810	164	85	6.6	5.0	9.4
24...	810	810	170	85	6.6	5.0	9.3
24...	810	810	177	85	6.6	5.0	9.3
FEB							
28...	810	810	.0	55	6.9	8.5	12.3
28...	810	810	6.6	58	7.0	8.0	11.9
28...	810	810	13	59	6.9	8.0	11.9
28...	810	810	20	60	6.9	8.0	11.8
28...	810	810	26	61	6.9	7.5	11.7
28...	810	810	33	62	6.8	7.0	11.6
28...	810	810	39	64	6.8	7.0	11.6
28...	810	810	46	65	6.8	7.0	11.5
28...	810	810	52	65	6.8	7.0	11.5
28...	810	810	59	66	6.8	7.0	11.5
28...	810	810	66	68	6.8	6.5	11.4
28...	810	810	72	69	6.8	6.0	11.2
28...	810	810	79	69	6.8	5.5	10.8
28...	810	810	85	71	6.8	5.0	10.6
28...	810	810	92	71	6.8	5.0	10.6
28...	810	810	98	73	6.8	5.0	10.1
28...	810	810	105	75	6.8	5.0	10.2
28...	810	810	112	77	6.8	5.0	10.1
28...	810	810	118	77	6.8	4.5	10.2
28...	810	810	125	79	6.8	4.5	10.0
28...	810	810	131	81	6.8	4.5	10.1
28...	810	810	138	83	6.8	4.5	10.1
28...	810	810	144	83	6.8	4.5	10.1
28...	810	810	151	83	6.8	4.5	10.0
28...	810	810	157	84	6.8	4.5	10.0
28...	810	810	164	86	6.8	4.5	9.9
28...	810	810	170	87	6.8	4.5	10.0
28...	810	810	177	87	6.8	4.5	9.7
APR							
06...	810	810	.0	60	7.0	15.0	10.3
06...	810	810	6.6	61	7.0	14.0	10.3
06...	810	810	13	62	7.0	13.5	10.5
06...	810	810	20	62	7.0	13.5	10.5
06...	810	810	26	62	7.0	13.0	10.4
06...	810	810	33	63	7.0	13.0	10.3
06...	810	810	39	66	6.9	13.0	10.3
06...	810	810	46	68	6.9	13.0	10.2
06...	810	810	52	70	6.8	13.0	10.2
06...	810	810	59	70	6.7	9.0	11.0
06...	810	810	66	71	6.7	7.5	11.3
06...	810	810	72	71	6.7	6.5	11.5
06...	810	810	79	74	6.7	6.0	11.1
06...	810	810	85	74	6.6	6.0	11.0
06...	810	810	92	76	6.5	6.0	10.7
06...	810	810	98	77	6.5	6.0	10.7
06...	810	810	105	79	6.5	5.5	10.6
06...	810	810	112	80	6.5	5.5	10.5
06...	810	810	118	80	6.5	5.5	10.3

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
APR							
06...	810	810	125	82	6.5	5.5	10.3
06...	810	810	131	82	6.5	5.5	10.1
06...	810	810	138	83	6.5	5.5	10.1
06...	810	810	144	83	6.5	5.5	10.1
06...	810	810	151	84	6.5	5.5	10.1
06...	810	810	157	85	6.5	5.5	9.9
06...	810	810	164	87	6.5	5.5	9.9
MAY							
17...	810	810	.0	53	7.2	24.0	8.5
17...	810	810	6.6	55	7.3	24.0	8.5
17...	810	810	13	57	7.3	22.0	8.5
17...	810	810	20	57	7.0	21.0	7.6
17...	810	810	26	59	7.0	16.0	6.5
17...	810	810	33	61	6.6	14.0	6.6
17...	810	810	39	63	6.6	13.0	6.6
17...	810	810	46	66	6.5	11.0	7.3
17...	810	810	52	67	6.5	9.0	7.6
17...	810	810	59	69	6.5	7.0	8.0
17...	810	810	66	69	6.5	7.0	8.0
17...	810	810	72	70	6.5	6.5	7.9
17...	810	810	79	73	6.5	6.0	7.9
17...	810	810	85	75	6.5	6.0	7.9
17...	810	810	92	77	6.5	6.0	7.8
17...	810	810	98	80	6.5	5.5	7.8
17...	810	810	105	79	6.5	5.5	7.8
17...	810	810	112	80	6.5	5.5	7.8
17...	810	810	118	82	6.5	5.5	7.7
17...	810	810	125	82	6.6	5.0	7.6
17...	810	810	131	82	6.6	5.0	7.6
17...	810	810	138	82	6.6	5.5	7.6
17...	810	810	144	85	6.6	5.0	7.6
17...	810	810	151	86	6.6	5.0	7.5
17...	810	810	157	88	6.6	5.0	7.5
17...	810	810	164	89	6.6	5.0	7.5
JUN							
21...	810	810	.0	53	7.5	30.5	7.3
21...	810	810	6.6	55	7.5	29.5	7.2
21...	810	810	13	57	7.4	28.5	7.4
21...	810	810	20	57	7.3	25.5	7.0
21...	810	810	26	61	6.7	19.0	4.4
21...	810	810	33	61	6.5	15.5	4.8
21...	810	810	39	65	6.5	13.0	5.5
21...	810	810	46	68	6.5	11.5	6.0
21...	810	810	52	69	6.6	9.5	6.4
21...	810	810	59	71	6.6	8.0	7.0
21...	810	810	66	74	6.7	7.5	7.1
21...	810	810	72	74	6.7	7.0	7.1
21...	810	810	79	77	6.7	6.0	7.1
21...	810	810	85	78	6.7	6.0	7.3
21...	810	810	92	78	6.7	6.0	7.2
21...	810	810	98	80	6.7	6.0	7.1
21...	810	810	105	82	6.7	5.5	7.0
21...	810	810	112	82	6.7	5.5	7.0
21...	810	810	118	83	6.7	5.5	7.1
21...	810	810	125	84	6.7	5.5	7.1
21...	810	810	131	85	6.7	5.5	7.1
21...	810	810	138	88	6.7	5.5	6.8
21...	810	810	144	90	6.7	5.5	6.8
21...	810	810	151	91	6.7	5.5	6.7
21...	810	810	157	92	6.7	5.5	6.8
21...	810	810	164	94	6.7	5.5	6.6
AUG							
02...	810	810	.0	58	7.4	29.0	7.1
02...	810	810	6.6	58	7.2	29.0	7.1
02...	810	810	13	58	7.1	28.5	6.8
02...	810	810	20	61	6.3	25.5	3.5
02...	810	810	26	68	6.3	17.0	4.7
02...	810	810	33	62	6.2	15.5	4.3
02...	810	810	39	63	6.2	13.0	5.6
02...	810	810	46	62	6.2	11.5	6.2
02...	810	810	52	63	6.2	9.5	7.5
02...	810	810	59	63	6.2	8.0	8.1
02...	810	810	66	62	6.2	7.0	8.1
02...	810	810	72	63	6.2	6.5	7.9
02...	810	810	79	63	6.2	6.5	7.4
02...	810	810	85	63	6.3	6.0	7.3
02...	810	810	92	63	6.2	6.0	7.1
02...	810	810	98	63	6.2	6.0	6.9
02...	810	810	105	63	6.2	6.0	6.8
02...	810	810	112	64	6.3	5.5	6.6

07359900 DEGRAY LAKE NEAR ARKADELPHIA, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
AUG							
02...	810	810	118	64	6.3	5.5	6.4
02...	810	810	125	64	6.2	5.5	6.2
02...	810	810	131	65	6.2	5.5	6.1
02...	810	810	138	67	6.2	5.5	6.1
02...	810	810	144	67	6.2	5.5	6.0
02...	810	810	151	68	6.2	5.5	6.0
02...	810	810	157	69	6.4	5.5	5.5
02...	810	810	164	71	6.5	5.0	5.2
SEP							
07...	810	810	.0	56	7.2	30.0	6.9
07...	810	810	6.6	58	7.1	28.5	6.5
07...	810	810	13	61	7.1	28.5	6.5
07...	810	810	20	61	7.1	28.0	6.5
07...	810	810	26	69	6.7	27.0	1.5
07...	810	810	33	64	6.5	16.0	2.4
07...	810	810	39	66	6.4	13.0	3.8
07...	810	810	46	68	6.4	11.0	4.3
07...	810	810	52	63	6.4	9.5	5.1
07...	810	810	59	69	6.4	8.0	5.7
07...	810	810	66	70	6.4	7.5	5.9
07...	810	810	72	74	6.3	7.0	5.8
07...	810	810	79	75	6.3	6.5	5.7
07...	810	810	85	78	6.3	6.5	5.7
07...	810	810	92	79	6.3	6.5	5.8
07...	810	810	98	81	6.3	6.0	5.5
07...	810	810	105	81	6.4	6.0	5.5
07...	810	810	112	81	6.4	6.0	5.3
07...	810	810	118	81	6.5	6.0	5.3
07...	810	810	125	81	6.5	6.0	5.1
07...	810	810	131	82	6.5	6.0	5.0
07...	810	810	138	84	6.5	6.0	5.0
07...	810	810	144	85	6.4	6.0	4.9
07...	810	810	151	86	6.4	6.0	4.7
07...	810	810	157	88	6.4	6.0	4.6
07...	810	810	164	94	6.4	6.0	3.7

07359910 CADDO RIVER AT DEGRAY REGULATING DAM, NEAR ARKADELPHIA, 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 34°10'38", long 93°06'00", in NW¼NE¼ sec.35, T.6 S., R.20 W., Clark County, Hydrologic Unit 08040102, 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 mi² (1,243 km²).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year, August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records for location immediately below Regulating Dam furnished by Corps of Engineers, Vicksburg, Miss. Additional analyses for Regulating Pool at power plant road bridge are available at the Vicksburg office.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
OCT						
05...	810	810	46	6.9	23.0	8.4
13...	810	810	32	6.9	20.0	7.8
18...	810	810	52	6.9	17.0	9.5
NOV						
03...	810	810	57	6.9	13.5	10.8
09...	810	810	51	7.0	13.0	9.9
15...	810	810	52	7.2	9.5	11.0
22...	810	810	55	7.2	11.0	11.1
29...	810	810	56	7.3	5.5	10.6
DEC						
07...	810	810	28	6.9	7.0	11.8
15...	810	810	64	6.6	10.0	9.9
20...	810	810	53	6.9	9.0	10.5
27...	810	810	57	6.9	6.0	11.7
JAN						
11...	810	810	58	6.9	6.5	13.0
17...	810	810	46	6.8	4.5	14.1
24...	810	810	54	6.8	4.0	12.8
FEB						
01...	810	810	57	6.7	4.0	12.3
07...	810	810	53	6.7	5.0	12.5
14...	810	810	42	6.6	8.0	10.7
21...	810	810	68	6.7	8.0	12.1
28...	810	810	88	6.9	10.0	12.1
MAR						
07...	810	810	47	6.9	10.5	11.7
13...	810	810	60	6.9	10.0	11.2
20...	810	810	63	7.0	13.0	10.7
27...	810	810	60	6.8	11.0	10.4
APR						
03...	810	810	58	6.9	14.0	10.5
10...	810	810	59	7.0	16.0	10.6
19...	810	810	44	6.8	16.0	8.8
24...	810	810	57	6.8	18.0	9.2
MAY						
01...	810	810	63	7.0	19.0	9.1
08...	810	810	52	7.0	22.5	9.2
15...	810	810	51	6.8	20.5	8.0
23...	810	810	74	6.9	23.5	7.9
29...	810	810	54	7.0	27.5	8.5
JUN						
05...	810	810	79	6.9	28.0	6.7
12...	810	810	56	6.9	25.5	8.5
19...	810	810	46	6.8	23.0	8.4
26...	810	810	46	6.8	25.5	8.3
JUL						
06...	810	810	54	6.9	28.0	8.4
16...	810	810	54	6.7	27.0	7.8
23...	810	810	56	6.7	26.0	7.2
31...	810	810	52	6.8	25.0	7.4
AUG						
09...	810	810	52	6.8	27.0	8.8
14...	810	810	54	6.7	29.0	6.6
21...	810	810	56	6.6	27.5	6.5
28...	810	810	55	7.2	28.0	7.6
SEP						
04...	810	810	47	6.8	28.0	6.9
12...	810	810	57	6.8	26.5	6.3
18...	810	810	61	6.8	24.0	8.0
28...	810	810	58	6.8	25.0	6.7

07360000 OUACHITA RIVER AT ARKADELPHIA, 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.

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, Hydrologic Unit 08040102, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
26...	9827	9827	--	--	--	--	--	--	--	1300	1500	--
26...	9827	9827	5280	110	7.0	15.0	25	8.1	1.5	--	--	--
NOV												
30...	9827	9827	4920	124	7.1	7.0	5	10.5	1.4	630	--	42
DEC												
21...	9827	9827	2320	108	7.0	6.0	10	10.4	1.0	140	--	--
JAN												
17...	9827	9827	--	123	7.1	3.0	5	12.3	3.2	680	<5	--
FEB												
14...	9827	9827	--	116	7.0	12.0	5	11.1	2.7	150	20	40
MAR												
29...	9827	9827	--	138	6.9	18.0	60	8.5	5.3	--	--	--
APR												
18...	9827	9827	--	97	7.0	22.0	20	8.3	2.8	--	--	--
MAY												
23...	9827	9827	--	165	6.7	25.0	5	5.8	1.6	260	--	--
JUN												
20...	9827	9827	--	118	7.1	28.0	5	11.1	5.0	--	--	--
JUL												
07...	9827	9827	--	616	8.2	31.0	40	7.9	1.7	--	--	--
20...	9827	9827	--	96	7.2	29.0	10	7.5	1.3	18000	--	--
AUG												
17...	9827	9827	--	--	7.0	30.0	--	7.2	1.3	9600	--	--
SEP												
14...	9827	9827	--	159	7.1	26.0	10	7.7	1.4	4500	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	5.0
NOV											
30...	23	--	13	--	2.0	7.2	2.4	23	0	19	10
DEC											
21...	--	--	--	--	--	--	--	--	--	--	11
JAN											
17...	--	--	--	--	--	--	--	--	--	--	19
FEB											
14...	25	--	12	--	2.0	5.4	1.6	18	0	15	13
MAR											
29...	--	--	--	--	--	--	--	--	--	--	22
APR											
18...	--	--	--	--	--	--	--	--	--	--	12
MAY											
23...	--	7.0	--	2.0	--	16	3.2	--	--	--	29
JUN											
20...	--	--	--	--	--	--	--	--	--	--	13
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	10
AUG											
17...	--	9.0	--	3.0	--	6.4	1.8	--	--	--	8.0
SEP											
14...	--	--	--	--	--	--	--	--	--	--	24

07360162 OUACHITA RIVER NEAR SPARKMAN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
26...	17	79	67	.33	--	--	.10	--	--	--	--	--
NOV												
30...	16	81	42	.57	--	--	.04	<3	<10	<3	190	770
DEC												
21...	14	71	10	.97	--	--	.02	--	--	--	--	--
JAN												
17...	13	77	10	.36	--	--	.11	--	--	--	--	--
FEB												
14...	14	81	15	.31	--	--	.05	<3	<10	<3	<10	400
MAR												
29...	18	99	75	.29	<.10	--	.16	--	--	--	--	--
APR												
18...	8.5	80	105	.26	.12	.85	.23	--	--	--	--	--
MAY												
23...	18	106	1	--	.06	.56	.01	--	<10	--	<10	180
JUN												
20...	14	78	11	.04	.01	.10	.05	--	--	--	--	--
JUL												
07...	100	358	126	--	--	--	--	--	--	--	--	--
20...	12	70	23	.31	.01	.07	.11	--	--	--	--	--
AUG												
17...	18	--	24	.35	<.05	.07	--	--	40	--	<10	220
SEP												
14...	20	108	13	--	--	--	.05	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
30...	<10	160	1.0	30	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	30	150	--	30	.00	.00	.00	.00	.00	.00	.00	0
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	<10	--	--	<10	--	--	--	--	--	--	--	--
JUN												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	20	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040103, 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 mi² (172 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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
19...	9827	9827	57	7.4	15.0	--	9.8	1.9	300	230	46
NOV											
23...	9827	9827	38	7.4	12.0	10	11.5	2.7	--	--	--
DEC											
14...	9827	9827	29	6.9	12.0	5	11.5	1.6	1100	--	--
JAN											
24...	9827	9827	33	7.0	10.0	5	12.6	2.2	75	16	14
FEB											
15...	9827	9827	29	7.1	10.0	5	12.2	1.3	<5	<4	--
MAR											
15...	9827	9827	33	7.2	20.0	5	10.2	1.7	--	--	--
APR											
19...	9827	9827	29	6.9	20.0	25	9.2	1.5	--	--	2
MAY											
17...	9827	9827	48	7.4	21.0	5	--	--	24	--	--
JUN											
14...	9827	9827	42	7.1	26.0	20	8.6	1.8	--	--	--
JUL											
19...	9827	9827	64	7.5	30.0	5	8.9	2.3	100	--	--
AUG											
23...	9827	9827	63	7.5	29.0	0	8.4	1.1	160	--	--
SEP											
20...	9827	9827	60	7.5	27.0	0	9.0	1.5	460	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
19...	21	--	10	--	5.0	2.6	.5	31	--	25	2.0
NOV											
23...	--	--	--	--	--	--	--	--	--	--	4.0
DEC											
14...	--	--	--	--	--	--	--	--	--	--	3.0
JAN											
24...	3	--	4.0	--	1.0	1.9	.4	13	0	11	3.0
FEB											
15...	--	--	--	--	--	--	--	--	--	--	3.0
MAR											
15...	--	--	--	--	--	--	--	--	--	--	3.0
APR											
19...	--	.3	--	.1	--	2.2	.8	--	--	--	3.0
MAY											
17...	--	--	--	--	--	--	--	--	--	--	4.0
JUN											
14...	--	3.0	--	1.0	--	2.0	.5	--	--	--	--
JUL											
19...	--	--	--	--	--	--	--	--	--	--	4.0
AUG											
23...	--	--	--	--	--	--	--	--	--	--	1.0
SEP											
20...	--	--	--	--	--	--	--	--	--	--	4.0

07360200 LITTLE MISSOURI RIVER NEAR LANGLEY, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
19...	4.0	38	2	<.10	--	--	<.01	--	<10	<3	<10	<20
NOV												
23...	3.5	45	--	<.10	--	--	<.01	--	--	--	--	--
DEC												
14...	3.0	29	4	<.10	--	--	.01	--	--	--	--	--
JAN												
24...	3.5	26	3	<.10	--	--	<.01	<3	20	<3	20	30
FEB												
15...	3.0	31	1	<.10	--	--	<.01	--	--	--	--	--
MAR												
15...	4.5	43	4	--	--	--	.02	--	--	--	--	--
APR												
19...	2.5	31	12	<.10	--	.17	.05	--	<10	<3	40	450
MAY												
17...	3.0	32	2	--	--	.04	.02	--	--	--	--	--
JUN												
14...	3.0	42	5	--	.00	.00	.01	--	<10	<3	10	430
JUL												
19...	3.5	44	10	--	.00	.05	.10	--	--	--	--	--
AUG												
23...	4.0	43	1	--	<.05	<.05	.01	--	--	--	--	--
SEP												
20...	3.0	--	1	.03	<.05	.03	.02	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
19...	<10	<27	<.5	<10	--	--	--	--	--	--	--	--
NOV												
23...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JAN												
24...	10	70	--	<10	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
19...	--	20	--	<10	--	--	--	--	--	--	--	--
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	<10	17	--	<10	--	--	--	--	--	--	--	--
JUL												
19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

07360250 LITTLE MISSOURI RIVER NEAR NEWHOPE, AR

LOCATION.--Lat 34°14'25", long 93°50'00", in NW¼NW¼ sec.13, T.6 S., R.27 W., Pike County, Hydrologic Unit 08040103, at bridge on U.S. Highway 70, and 2.8 mi (4.5 km) east of Newhope.

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
OCT						
05...	810	810	50	6.9	23.0	6.0
13...	810	810	46	6.8	20.0	7.3
19...	810	810	43	7.0	13.0	9.0
26...	810	810	17	6.7	14.0	9.3
NOV						
02...	810	810	36	7.0	11.5	10.2
09...	810	810	42	6.7	8.0	12.2
16...	810	810	53	6.6	7.0	10.2
23...	810	810	33	7.0	7.0	11.8
DEC						
01...	810	810	35	6.5	2.5	13.6
07...	810	810	42	6.8	6.0	12.8
15...	810	810	34	6.5	5.5	12.6
21...	810	810	11	6.7	7.0	10.6
28...	810	810	34	6.7	6.0	11.6
JAN						
04...	810	810	14	6.6	1.0	9.3
12...	810	810	32	6.5	.0	13.2
17...	810	810	22	6.7	.0	15.8
25...	810	810	39	6.6	4.5	12.8
31...	810	810	44	6.6	2.0	12.2
FEB						
07...	810	810	13	6.5	8.5	11.6
15...	810	810	10	6.6	12.0	11.6
22...	810	810	48	6.6	10.5	10.2
MAR						
08...	810	810	42	6.3	14.5	8.2
15...	810	810	43	6.7	18.0	7.8
22...	810	810	30	6.7	14.0	8.2
29...	810	810	31	6.6	12.0	8.8
APR						
05...	810	810	36	6.6	14.5	10.0
12...	810	810	39	6.6	19.0	10.8
18...	810	810	33	6.6	19.5	6.7
25...	810	810	24	6.7	26.0	7.7
MAY						
02...	810	810	31	6.7	23.5	5.8
08...	810	810	54	6.8	23.0	5.6
16...	810	810	60	7.0	27.0	5.7
23...	810	810	48	6.9	28.0	5.2
JUN						
05...	810	810	61	6.9	31.0	5.4
13...	810	810	53	7.2	31.0	5.2
21...	810	810	36	6.9	30.0	6.0
28...	810	810	54	7.0	28.5	9.0
JUL						
06...	810	810	42	7.1	34.5	4.8
19...	810	810	37	7.1	33.0	9.1
25...	810	810	36	7.0	30.5	9.2
AUG						
01...	810	810	27	6.9	26.5	5.6
08...	810	810	30	7.0	27.0	7.2
15...	810	810	27	7.2	30.5	5.8
22...	810	810	46	7.3	30.0	9.0
28...	810	810	38	7.1	28.0	7.4
SEP						
06...	810	810	48	7.1	27.0	8.2
12...	810	810	39	7.0	29.0	5.2
19...	810	810	46	6.8	27.0	5.7
26...	810	810	36	6.7	30.0	9.7

07360350 SELF CREEK NEAR DAISY, AR

LOCATION.--Lat 34°15'49", long 93°43'40", in NE¼SE¼ sec.36, T.5 S., R.26 W., Pike County, Hydrologic Unit 08040103, at bridge on county road 1.6 mi (2.6 km) north of Daisy.

DRAINAGE AREA.--204 mi^2 (528 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. August 1973 to August 1974 and October 1975 to September 1976 in reports of Corps of Engineers, Vicksburg, Miss.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
OCT						
05...	810	810	39	7.1	25.0	6.0
13...	810	810	45	7.0	18.5	8.2
19...	810	810	38	7.2	15.0	7.4
26...	810	810	14	7.0	14.5	9.2
NOV						
02...	810	810	30	7.0	13.0	10.2
09...	810	810	39	7.0	11.0	10.4
16...	810	810	35	6.7	4.0	12.0
23...	810	810	20	6.8	5.5	13.2
DEC						
01...	810	810	13	6.5	3.0	13.4
07...	810	810	40	6.7	6.0	12.0
21...	810	810	14	6.7	6.0	11.4
28...	810	810	14	6.6	3.0	13.2
JAN						
04...	810	810	18	6.6	.0	12.6
12...	810	810	29	6.6	.0	14.8
17...	810	810	36	6.5	.0	15.2
25...	810	810	39	6.5	4.0	19.6
31...	810	810	115	6.6	2.0	12.4
FEB						
07...	810	810	14	6.6	7.0	12.4
15...	810	810	15	6.5	10.0	12.0
22...	810	810	41	6.6	9.0	11.6
MAR						
08...	810	810	45	6.5	14.0	8.4
15...	810	810	29	6.7	17.0	7.8
22...	810	810	46	6.7	13.0	10.8
29...	810	810	37	6.5	13.0	8.7
APR						
05...	810	810	22	6.6	13.0	9.9
12...	810	810	36	6.5	17.5	9.0
18...	810	810	36	6.6	19.0	8.8
25...	810	810	31	6.7	19.0	9.7
MAY						
02...	810	810	34	6.7	21.5	8.7
08...	810	810	49	7.0	24.0	8.7
16...	810	810	58	6.8	24.5	7.4
23...	810	810	50	6.9	25.5	6.8
JUN						
05...	810	810	54	7.0	30.0	5.0
13...	810	810	52	6.8	29.0	6.2
21...	810	810	29	6.9	27.0	8.5
28...	810	810	48	6.9	28.0	8.7
JUL						
06...	810	810	49	6.8	31.5	6.2
19...	810	810	28	7.0	29.0	12.8
25...	810	810	27	6.8	30.0	12.6
AUG						
01...	810	810	20	6.9	26.0	7.1
08...	810	810	27	6.9	29.0	9.2
15...	810	810	37	6.8	29.0	6.8
22...	810	810	38	6.9	27.5	9.2
28...	810	810	40	6.9	25.0	9.2
SEP						
06...	810	810	38	6.9	28.0	5.7
12...	810	810	37	6.9	26.0	6.6
19...	810	810	39	6.7	26.0	6.2
26...	810	810	29	6.6	27.0	8.2

07360500 LAKE GREESON NEAR MURFREESBORO, 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 34°08'55", long 93°42'55", in NW¼ sec.18, T.7 S., R.25 W., Pike County, Hydrologic Unit 08040103, 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 mi^2 (614 km^2).

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 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
NOV							
02...	810	810	.0	39	7.0	16.0	6.4
02...	810	810	6.5	39	7.0	16.0	6.5
02...	810	810	13	38	6.9	16.0	6.3
02...	810	810	20	41	6.8	15.5	6.2
02...	810	810	26	43	6.8	15.5	6.1
02...	810	810	33	46	6.7	15.5	6.3
02...	810	810	39	46	6.8	15.5	6.3
02...	810	810	46	47	6.7	15.5	6.1
02...	810	810	52	54	6.7	15.0	.5
02...	810	810	59	59	6.6	14.0	.2
02...	810	810	66	65	6.6	12.5	.1
02...	810	810	72	66	6.6	10.5	.1
02...	810	810	79	66	6.6	10.0	.1
02...	810	810	85	65	6.6	9.5	.1
02...	810	810	92	58	6.6	9.0	.1
02...	810	810	98	54	6.6	9.0	.1
02...	810	810	105	67	6.7	8.5	.1
02...	810	810	112	95	6.7	8.5	.1
02...	810	810	118	118	6.7	8.5	.1
02...	810	810	125	152	6.7	8.5	.1
02...	810	810	131	168	6.7	8.5	.1
DEC							
15...	810	810	.0	36	6.3	8.5	8.6
15...	810	810	6.0	38	6.3	8.5	8.4
15...	810	810	13	38	6.3	8.5	8.0
15...	810	810	20	38	6.3	8.5	7.8
15...	810	810	26	39	6.3	9.0	7.7
15...	810	810	33	39	6.3	9.0	7.6
15...	810	810	39	41	6.5	9.0	7.4
15...	810	810	46	41	6.3	9.0	7.5
15...	810	810	52	41	6.3	9.0	7.3
15...	810	810	59	45	6.3	9.0	7.4
15...	810	810	66	49	6.3	9.0	.8
15...	810	810	72	55	6.2	8.0	.2
15...	810	810	79	63	6.1	8.0	.2
15...	810	810	85	63	6.1	8.0	1.2
15...	810	810	92	59	6.1	8.0	1.0
15...	810	810	98	55	6.1	7.5	4.5
15...	810	810	105	55	6.1	8.0	2.0
15...	810	810	112	98	6.1	8.0	.2
15...	810	810	118	118	7.0	8.0	.1
15...	810	810	125	144	7.0	8.0	.1
JAN							
25...	810	810	.0	33	6.6	5.0	9.8
25...	810	810	6.6	34	66.0	5.0	9.8
25...	810	810	13	34	6.5	5.0	9.7
25...	810	810	20	37	6.5	5.0	9.9
25...	810	810	26	40	6.6	5.0	9.9
25...	810	810	33	40	6.5	5.0	9.9
25...	810	810	39	41	6.4	5.0	9.6
25...	810	810	46	41	6.5	5.0	10.0
25...	810	810	52	42	6.6	5.0	9.8
25...	810	810	59	42	6.4	5.0	9.8
25...	810	810	66	44	6.3	5.0	9.8
25...	810	810	72	44	6.3	5.0	9.8
25...	810	810	79	44	6.3	5.0	9.9
25...	810	810	85	44	6.3	5.0	9.7
25...	810	810	92	44	6.3	4.5	9.8
25...	810	810	98	48	6.4	4.5	9.7
25...	810	810	105	48	6.6	4.5	9.6
25...	810	810	112	50	6.6	4.5	9.8
25...	810	810	118	52	6.6	4.5	9.5
25...	810	810	125	55	6.6	4.5	9.3
25...	810	810	131	83	6.6	4.5	9.4
25...	810	810	138	104	6.6	4.5	.5

07360500 LAKE GREESON NEAR MURFREESBORO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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							
08...	810	810	.0	43	6.6	11.0	9.9
08...	810	810	6.6	43	6.6	11.0	9.8
08...	810	810	13	44	6.6	11.0	9.9
08...	810	810	20	44	6.6	10.5	9.2
08...	810	810	26	45	6.6	10.0	9.8
08...	810	810	33	44	6.6	10.0	10.0
08...	810	810	39	41	6.6	10.0	9.9
08...	810	810	46	45	6.6	10.0	9.0
08...	810	810	52	49	6.6	9.5	9.0
08...	810	810	59	49	6.6	9.5	8.8
08...	810	810	66	49	6.6	9.0	8.2
08...	810	810	72	50	6.6	8.0	9.0
08...	810	810	79	50	6.6	8.0	8.9
08...	810	810	85	50	6.6	8.0	8.8
08...	810	810	92	50	6.6	7.5	8.8
08...	810	810	98	50	6.6	7.0	8.6
08...	810	810	105	50	6.6	7.0	8.0
08...	810	810	112	50	6.5	7.0	8.8
08...	810	810	118	50	6.5	7.0	8.8
08...	810	810	125	50	6.6	7.0	8.8
08...	810	810	131	49	6.5	7.0	6.5
APR							
06...	810	810	.0	36	6.8	14.5	9.6
06...	810	810	6.6	35	6.8	15.0	9.4
06...	810	810	13	38	6.7	15.0	9.4
06...	810	810	20	38	6.8	15.0	9.3
06...	810	810	26	38	6.7	15.0	9.3
06...	810	810	33	38	6.7	15.0	9.2
06...	810	810	39	38	6.6	14.0	8.8
06...	810	810	46	39	6.6	13.0	7.0
06...	810	810	52	39	6.5	12.5	8.0
06...	810	810	59	40	6.5	12.0	8.6
06...	810	810	66	40	6.4	12.0	8.7
06...	810	810	72	40	6.4	11.0	8.8
06...	810	810	79	41	6.4	10.0	9.2
06...	810	810	85	41	6.4	9.5	8.0
06...	810	810	92	41	6.4	9.0	8.2
06...	810	810	98	41	6.4	9.0	8.3
06...	810	810	105	42	6.4	8.0	8.6
06...	810	810	112	39	6.4	8.0	8.4
06...	810	810	118	39	6.4	8.0	8.2
06...	810	810	125	39	6.4	8.0	8.2
06...	810	810	131	41	6.4	7.5	8.2
06...	810	810	138	42	6.4	7.0	8.0
06...	810	810	144	42	6.4	7.0	7.8
06...	810	810	151	70	6.4	7.0	3.5
06...	810	810	157	106	6.4	7.0	2.0
MAY							
18...	810	810	.0	52	6.8	23.5	8.1
18...	810	810	6.6	52	6.5	23.0	7.9
18...	810	810	13	51	6.6	22.5	7.8
18...	810	810	20	50	6.5	20.0	6.4
18...	810	810	26	48	6.5	16.0	5.9
18...	810	810	33	47	6.4	14.0	6.5
18...	810	810	39	46	6.4	13.5	6.6
18...	810	810	46	46	6.4	13.0	6.6
18...	810	810	52	46	6.4	12.0	6.7
18...	810	810	59	45	6.4	11.5	6.9
18...	810	810	66	47	6.4	10.5	7.0
18...	810	810	72	47	6.4	9.5	7.1
18...	810	810	79	47	6.4	8.5	7.3
18...	810	810	85	46	6.4	8.0	7.4
18...	810	810	92	46	6.4	7.5	7.4
18...	810	810	98	45	6.4	6.5	7.2
18...	810	810	105	44	6.4	6.5	7.1
18...	810	810	112	43	6.4	6.0	7.2
18...	810	810	118	43	6.4	6.0	7.3
18...	810	810	125	44	6.4	6.0	6.8
18...	810	810	131	46	6.4	6.0	6.7
18...	810	810	138	47	6.4	6.0	6.4

07360500 LAKE GREESON NEAR MURFREESBORO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
JUN							
18...	810	810	.0	36	6.8	28.0	8.2
18...	810	810	6.5	38	6.8	27.5	8.5
18...	810	810	13	36	6.8	27.0	8.0
18...	810	810	20	37	6.8	22.0	5.0
18...	810	810	26	39	6.5	18.5	4.2
18...	810	810	33	42	6.2	14.0	5.2
18...	810	810	39	42	6.2	14.0	6.0
18...	810	810	46	42	6.3	13.5	6.2
18...	810	810	52	47	6.2	12.5	6.4
18...	810	810	59	48	6.2	11.0	6.5
18...	810	810	66	50	6.2	11.0	6.7
18...	810	810	72	51	6.2	9.5	6.6
18...	810	810	79	52	6.2	8.5	6.8
18...	810	810	85	52	6.2	8.0	7.6
18...	810	810	92	55	6.2	7.5	7.6
18...	810	810	98	56	6.2	7.0	7.2
18...	810	810	105	56	6.2	6.5	7.3
18...	810	810	112	57	6.2	6.0	7.0
18...	810	810	118	61	6.2	6.0	6.8
18...	810	810	125	61	6.2	6.0	6.5
18...	810	810	131	62	6.2	6.0	6.0
18...	810	810	138	65	6.2	5.5	5.5
18...	810	810	144	68	6.3	6.0	2.8
AUG							
02...	810	810	.0	30	6.8	28.5	7.2
02...	810	810	6.6	30	6.8	28.5	6.7
02...	810	810	13	33	6.8	28.5	6.8
02...	810	810	20	33	6.8	28.0	5.5
02...	810	810	26	32	6.8	21.0	1.5
02...	810	810	33	34	6.8	17.5	2.5
02...	810	810	39	35	6.5	16.0	2.5
02...	810	810	46	35	6.5	15.0	4.5
02...	810	810	52	36	6.5	14.5	4.4
02...	810	810	59	42	6.5	13.5	4.7
02...	810	810	66	43	6.5	12.5	5.2
02...	810	810	72	48	6.5	11.5	5.4
02...	810	810	79	48	6.5	11.0	5.4
02...	810	810	85	48	6.5	10.5	5.2
02...	810	810	92	49	6.5	10.0	5.4
02...	810	810	98	49	6.5	10.0	5.4
02...	810	810	105	49	6.5	9.0	5.5
02...	810	810	112	52	6.5	9.0	5.0
02...	810	810	118	52	6.5	9.0	4.0
02...	810	810	125	52	6.5	9.0	3.6
02...	810	810	131	52	6.5	9.0	3.2
02...	810	810	138	54	6.5	9.0	.7
02...	810	810	144	71	6.5	9.0	.3
SEP							
07...	810	810	.0	36	6.7	30.0	6.8
07...	810	810	6.6	36	6.9	30.0	6.4
07...	810	810	13	38	6.9	30.0	6.7
07...	810	810	20	36	6.9	30.0	6.4
07...	810	810	26	40	6.2	25.5	1.0
07...	810	810	33	42	6.2	19.0	1.2
07...	810	810	39	44	6.2	16.5	.7
07...	810	810	46	48	6.2	14.5	3.0
07...	810	810	52	48	6.2	13.5	3.7
07...	810	810	59	52	6.2	13.5	3.6
07...	810	810	66	52	6.2	11.5	4.2
07...	810	810	72	53	6.2	10.5	4.6
07...	810	810	79	54	6.2	10.0	4.4
07...	810	810	85	54	6.2	9.0	4.6
07...	810	810	92	55	6.2	8.5	4.2
07...	810	810	98	55	6.2	8.0	4.4
07...	810	810	105	55	6.2	7.5	4.7
07...	810	810	112	56	6.2	7.0	4.5
07...	810	810	118	64	6.2	7.0	3.2
07...	810	810	125	64	6.2	7.0	3.2
07...	810	810	131	64	6.2	7.0	.7

07360501 LITTLE MISSOURI RIVER AT NARROWS DAM, NEAR MURFREESBORO, 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.

WATER-QUALITY RECORDS

LOCATION.--Lat 34°08'54", long 93°42'54" (revised), in NW¼ sec.18, T.7 S., R.25 W., Pike County, Hydrologic Unit 08040103, in powerhouse at Narrows Dam, 6.5 mi (10.5 km) upstream from Muddy Fork Creek, and at mile 105.5 (169.7 km).

DRAINAGE AREA.--237 mi^2 (614 km^2).

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 for location immediately below Dam by Corps of Engineers.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)
OCT						
05...	810	810	37	6.8	21.0	5.7
13...	810	810	22	6.2	19.0	6.2
19...	810	810	23	6.6	17.0	4.5
26...	810	810	23	6.7	18.0	6.2
NOV						
02...	810	810	37	6.3	15.5	5.4
09...	810	810	24	6.3	14.0	6.0
16...	810	810	19	6.5	12.0	7.3
23...	810	810	23	6.9	11.0	7.8
DEC						
01...	810	810	36	6.6	8.5	9.2
07...	810	810	21	6.2	9.0	7.2
15...	810	810	42	6.2	8.0	6.7
21...	810	810	7	6.8	8.0	9.4
28...	810	810	6	6.6	9.0	9.3
JAN						
04...	810	810	7	6.7	6.0	9.7
12...	810	810	13	6.5	7.0	9.2
17...	810	810	7	6.6	7.0	11.6
25...	810	810	7	6.3	6.0	14.2
31...	810	810	163	6.5	6.0	8.8
FEB						
07...	810	810	10	6.4	11.5	9.2
15...	810	810	22	6.6	12.0	9.6
22...	810	810	38	6.7	11.0	9.6
MAR						
08...	810	810	44	6.6	11.0	10.8
15...	810	810	38	6.6	10.0	10.2
22...	810	810	39	6.4	13.0	9.2
29...	810	810	38	6.2	10.0	9.7
APR						
05...	810	810	36	6.2	13.5	11.5
12...	810	810	34	6.7	18.0	9.6
18...	810	810	47	6.5	12.0	9.6
25...	810	810	33	6.6	20.0	8.2
MAY						
02...	810	810	32	6.5	18.0	7.2
08...	810	810	42	7.1	21.5	8.2
16...	810	810	33	6.9	19.0	8.4
23...	810	810	37	6.5	15.5	6.3
JUN						
05...	810	810	34	6.9	20.5	8.6
13...	810	810	41	6.6	21.0	7.8
21...	810	810	22	6.6	20.0	8.6
28...	810	810	34	6.6	21.0	11.3
JUL						
06...	810	810	23	6.5	18.0	7.3
19...	810	810	23	6.5	17.0	13.8
25...	810	810	23	6.6	22.0	12.4
AUG						
01...	810	810	19	6.5	23.0	6.2
08...	810	810	22	6.6	25.5	8.0
15...	810	810	24	6.6	21.0	7.2
22...	810	810	20	6.6	24.0	9.2
28...	810	810	21	6.5	21.0	8.4
SEP						
06...	810	810	21	6.7	23.5	6.4
12...	810	810	19	6.6	22.5	7.5
19...	810	810	23	6.4	17.0	7.2
26...	810	810	24	6.4	14.0	4.8

07361000 LITTLE MISSOURI RIVER NEAR MURFREESBORO, 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.

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, Hydrologic Unit 08040103, 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.--23 years, 259 ft^3/s (7.33 m^3/s), 19.43 in/yr (494 mm/yr), 187,600 acre-ft/yr (231 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. 3	1730	*14,100	399	23.19	7.068
Mar. 28	1100	7,570	214	19.70	6.005

Minimum discharge, 1.0 ft^3/s (0.028 m^3/s) June 12, gage height 2.69 ft (0.820 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	111	58	37	119	234	420	96	3.6	15	53	4.2
2	2.7	75	51	33	107	225	407	98	3.3	10	59	3.5
3	2.6	57	43	34	251	6580	708	114	2.7	7.7	34	2.9
4	2.6	43	39	36	488	4590	2670	92	2.2	5.9	23	2.4
5	5.3	35	35	36	381	1160	1270	72	1.9	4.4	17	2.4
6	13	28	52	46	322	764	687	61	1.9	3.5	13	2.8
7	8.2	24	148	63	283	581	515	50	1.7	2.9	10	2.6
8	16	21	150	73	256	477	412	41	1.5	2.6	8.3	2.2
9	11	18	107	149	237	412	347	37	1.4	2.7	6.7	2.2
10	9.1	17	101	322	217	368	299	40	1.3	94	5.5	2.5
11	7.6	15	609	273	893	355	261	36	1.2	62	4.6	3.1
12	6.4	14	718	248	3520	445	231	27	1.1	30	6.5	2.9
13	5.4	13	476	241	1050	333	201	22	94	17	4.8	2.9
14	4.3	14	368	654	671	292	171	19	106	11	3.9	3.3
15	3.6	15	308	539	498	267	140	16	39	7.1	3.7	2.8
16	3.2	14	265	419	413	243	113	14	28	4.5	3.6	3.9
17	2.7	14	228	337	363	223	95	12	360	3.3	3.4	16
18	2.1	13	196	301	325	217	332	10	363	2.6	5.3	11
19	2.2	12	160	281	285	195	747	8.9	194	2.0	4.9	8.4
20	2.4	75	132	256	252	166	1360	9.0	96	1.9	3.6	6.1
21	2.4	262	100	212	234	139	1250	7.9	53	1.7	3.1	4.9
22	2.9	172	83	187	218	117	677	7.1	35	1.6	3.1	3.9
23	4.3	103	75	180	286	100	488	6.6	25	1.4	3.0	3.3
24	7.7	71	70	259	394	90	389	5.8	18	1.3	34	3.0
25	81	56	74	258	288	85	320	5.4	13	1.3	17	4.5
26	264	71	75	227	267	84	268	6.1	12	1.4	9.6	4.4
27	116	199	64	219	293	667	230	5.8	27	3.0	6.4	61
28	63	138	56	206	252	5120	196	5.1	62	41	8.5	258
29	46	88	50	172	---	1450	156	7.5	33	77	8.7	295
30	95	70	46	143	---	751	118	5.2	21	43	7.8	178
31	190	---	41	136	---	520	---	3.8	---	29	5.9	---
TOTAL	985.4	1858	4978	6577	13163	27250	15478	941.2	1602.8	491.8	380.9	904.1
MEAN	31.8	61.9	161	212	470	879	516	30.4	53.4	15.9	12.3	30.1
MAX	264	262	718	654	3520	6580	2670	114	363	94	59	295
MIN	2.1	12	35	33	107	84	95	3.8	1.1	1.3	3.0	2.2
CFSM	.18	.34	.89	1.17	2.60	4.86	2.85	.17	.30	.09	.07	.17
IN.	.20	.38	1.02	1.35	2.71	5.60	3.18	.19	.33	.10	.08	.19
AC-FT	1950	3690	9870	13050	26110	54050	30700	1870	3180	975	756	1790

CAL YR 1976 TOTAL 61860.53 MEAN 169 MAX 5040 MIN .81 CFSM .93 IN 12.71 AC-FT 122700
WTR YR 1977 TOTAL 74610.20 MEAN 204 MAX 6580 MIN 1.1 CFSM 1.13 IN 15.33 AC-FT 148000

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, 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 33°52'32", long 93°18'16", in NE¼ sec.13, T.10 S., R.22 W., Nevada County, Hydrologic Unit 08040103, 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 mi² (2,766 km²).

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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
25...	9827	9827	--	84	7.3	16.0	20	8.4	.8	760	160	--
25...	--	--	164	--	--	--	--	--	--	--	--	--
NOV												
23...	9827	9827	620	82	7.2	9.0	20	10.4	1.2	--	--	22
DEC												
20...	9827	9827	394	92	7.6	9.0	30	10.2	1.4	52	--	--
JAN												
26...	9827	9827	--	106	7.3	5.0	20	12.7	2.2	50	--	--
FEB												
23...	9827	9827	--	100	6.6	12.0	20	10.4	.9	27	--	26
MAR												
23...	9827	9827	--	63	7.1	18.0	30	10.2	1.1	--	--	--
APR												
27...	9827	9827	--	81	7.2	19.0	30	8.7	1.1	--	--	--
MAY												
25...	9827	9827	--	60	7.3	25.0	25	9.0	1.7	320	--	--
JUN												
22...	9827	9827	--	93	7.2	28.0	60	8.0	2.0	92	--	--
JUL												
27...	9827	9827	--	63	7.3	25.0	40	7.5	--	710	--	--
AUG												
24...	9827	9827	--	81	7.4	28.0	20	7.3	1.9	150	--	20
SEP												
21...	9827	9827	--	60	7.4	24.0	15	8.9	1.5	740	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
25...	--	--	--	--	--	--	--	--	--	--	7.0
25...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	5	--	6.0	--	1.0	4.9	1.8	21	0	17	13
DEC											
20...	--	--	--	--	--	--	--	--	--	--	13
JAN											
26...	--	--	--	--	--	--	--	--	--	--	17
FEB											
23...	7	--	7.9	--	1.4	3.8	1.3	23	0	19	17
MAR											
23...	--	--	--	--	--	--	--	--	--	--	5.0
APR											
27...	--	--	--	--	--	--	--	--	--	--	15
MAY											
25...	--	4.0	--	1.0	--	3.1	.8	--	--	--	6.0
JUN											
22...	--	--	--	--	--	--	--	--	--	--	18
JUL											
27...	--	--	--	--	--	--	--	--	--	--	6.0
AUG											
24...	--	5.0	--	1.0	--	4.7	1.7	--	--	--	2.0
SEP											
21...	--	--	--	--	--	--	--	--	--	--	7.0

07361600 LITTLE MISSOURI RIVER NEAR BOUGHTON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
25...	8.0	61	14	.28	--	--	.02	--	--	--	--	--
NOV												
23...	25	54	11	.31	--	--	.02	<3	<10	<3	<10	590
DEC												
20...	8.0	76	15	.50	--	--	.02	--	--	--	--	--
JAN												
26...	16	62	24	.15	--	--	.03	--	--	--	--	--
FEB												
23...	5.0	71	19	.38	--	--	.04	<3	<10	--	<10	1200
MAR												
23...	5.0	53	14	--	--	<.10	.07	--	--	--	--	--
APR												
27...	4.5	73	47	.15	.00	.06	.06	--	--	--	--	--
MAY												
25...	4.5	41	9	.13	.01	.05	.08	--	<10	--	<10	1000
JUN												
22...	4.5	84	17	.15	.01	--	.09	--	--	--	--	--
JUL												
27...	6.0	56	--	.11	.01	.04	.10	--	--	--	--	--
AUG												
24...	6.5	66	25	.09	<.05	.07	.06	--	<10	<5	30	1700
SEP												
21...	6.0	51	8	.12	<.05	.09	.09	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
25...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
23...	<10	80	<.5	20	.00	.00	.00	.00	.00	.00	.00	0
DEC												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN,												
26...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	70	110	--	<10	--	--	--	--	--	--	--	--
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	<10	76	--	<10	--	--	--	--	--	--	--	--
JUN												
22...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
JUL												
27...	--	--	--	--	--	--	.00	--	.00	.00	.00	0
AUG												
24...	20	220	--	--	--	--	.00	--	.00	.00	.00	0
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR
(National stream-quality accounting network 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 33°35'47", long 92°49'05", in SE¼ sec.14, T.13 S., R.17 W., Ouachita County, Hydrologic Unit 08040102, 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 mi² (13,960 km²).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-52, October 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
OCT											
14...	1028	1028	102	6.8	20.0	8.7	99	500	120	32	11
NOV											
12...	1028	1028	98	6.5	11.0	--	--	B5	<4	31	10
DEC											
21...	1028	1028	98	7.9	8.0	--	--	B9	<4	24	14
FEB											
03...	1028	1028	119	6.0	5.0	11.8	95	<7	B12	31	15
23...	1028	1028	89	7.1	10.5	10.5	97	B13	<4	25	10
MAR											
22...	1028	1028	110	7.4	13.0	8.1	79	B7	B8	34	18
APR											
20...	1028	1028	85	7.3	17.0	7.7	82	480	440	22	6
MAY											
19...	1028	1028	122	6.9	25.5	7.3	91	B7	B12	27	12
JUN											
14...	1028	1028	140	7.0	28.0	6.9	88	B33	B40	31	16
SEP											
01...	1028	1028	--	--	--	--	--	--	--	--	--
01...	1028	1028	109	7.0	27.5	7.3	94	<11	B24	33	14
27...	1028	1028	--	--	--	--	--	--	--	--	--
27...	1028	1028	82	7.3	22.0	6.9	81	B67	210	26	9

DATE	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
14...	9.9	1.7	6.6	30	.5	1.7	25	0	21	6.3	9.0
NOV											
12...	9.9	1.6	4.4	23	.3	1.3	26	--	21	13	6.6
DEC											
21...	7.2	1.4	7.7	39	.7	1.9	12	0	10	.2	12
FEB											
03...	9.6	1.7	7.3	33	.6	1.3	20	0	16	32	12
23...	7.6	1.5	6.1	33	.5	1.1	18	0	15	2.3	6.8
MAR											
22...	11	1.6	6.1	27	.5	1.1	20	0	16	1.3	10
APR											
20...	7.0	1.1	5.6	33	.5	1.8	20	0	16	1.6	11
MAY											
19...	8.2	1.6	10	42	.8	2.4	18	0	15	3.6	17
JUN											
14...	9.2	2.0	13	45	1.0	2.8	19	0	16	3.0	20
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	10	1.9	5.7	26	.4	1.6	23	0	19	3.7	7.5
27...	--	--	--	--	--	--	--	--	--	--	--
27...	7.6	1.8	4.3	25	.4	1.6	21	0	17	1.7	6.3

B PLATE COUNT OUTSIDE IDEAL RANGE.

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	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											
14...	14	.1	3.0	63	58	.09	.41	.36	.77	3.4	.05
NOV											
12...	13	.1	4.8	60	55	.08	.07	.23	.30	1.3	.06
DEC											
21...	11	.1	7.3	61	55	.08	.36	.89	1.3	5.5	.06
FEB											
03...	10	.1	5.5	67	58	.09	.19	.38	.57	2.5	.04
23...	9.3	.1	6.2	61	48	.08	.15	.40	.55	2.4	.05
MAR											
22...	20	.2	6.9	76	67	.10	.17	.69	.86	3.8	.05
APR											
20...	6.8	.1	4.8	--	48	.09	.28	.61	.89	3.9	.12
MAY											
19...	14	.1	4.7	74	67	.10	.85	.86	1.7	7.6	.04
JUN											
14...	18	.1	4.6	78	79	.11	.59	.13	.72	3.2	.03
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	15	.1	5.2	70	58	.10	.10	.59	.69	3.1	.04
27...	--	--	--	--	--	--	--	--	--	--	--
27...	7.8	.1	3.9	45	44	.06	.26	--	--	--	.05

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)
OCT										
14...	1	1	0	<10	<10	0	0	0	0	<50
NOV										
12...	--	--	--	--	--	--	--	--	--	--
DEC										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	0	0	0	<10	<10	0	10	10	0	<50
23...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	2	--	0	<10	--	0	10	10	0	<50
MAY										
19...	--	--	--	--	--	--	--	--	--	--
JUN										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--

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)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	SUS-PENDED MAN-GANESE (MN) (UG/L) (01054)
OCT												
14...	<50	0	<10	<9	1	740	60	<100	<100	0	80	50
FEB												
03...	<50	0	30	24	6	150	140	<100	<99	1	130	30
APR												
20...	--	0	<10	--	1	2000	100	<100	--	0	160	150
SEP												
01...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
OCT											
14...	30	--	--	.0	0	0	0	10	0	10	2.6
FEB											
03...	100	.0	.0	.0	0	0	0	20	20	0	3.1
APR											
20...	10	.0	--	.0	0	0	0	20	10	10	5.9
SEP											
01...	--	--	--	--	--	--	--	--	--	--	3.3
27...	--	--	--	--	--	--	--	--	--	--	4.2

DATE	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)
OCT										
14...	--	--	--	--	--	--	--	--	--	--
NOV										
12...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
23...	ND	--	ND	--	ND	--	ND	--	ND	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	ND	--	ND	--	ND	--	ND	--	ND	--
JUN										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	ND	--	ND	--	ND	--	ND	--	ND	--
27...	--	--	--	--	--	--	--	--	--	--

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)
OCT										
14...	--	--	--	--	--	--	--	--	--	--
NOV										
12...	ND	ND	ND	ND	ND	.1	ND	.1	ND	ND
DEC										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
23...	ND	--	ND	--	ND	--	ND	--	ND	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	ND	--	ND	--	ND	--	ND	--	ND	--
JUN										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	ND	--	ND	--	ND	--	ND	--	ND	--
27...	--	--	--	--	--	--	--	--	--	--

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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										
14...	--	--	--	--	--	--	--	--	--	--
NOV										
12...	ND	ND	ND	.0	ND	ND	ND	ND	ND	ND
DEC										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
23...	ND	--	ND	--	ND	--	ND	--	ND	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	ND	--	ND	--	ND	--	ND	--	ND	--
JUN										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	ND	--	ND	--	ND	--	ND	--	ND	--
27...	--	--	--	--	--	--	--	--	--	--

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 COULSON COND. (UG/L) (39025)	SIMAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS) (39046)	TOTAL TOXAPHENE (UG/L) (39400)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG) (39403)
OCT										
14...	--	--	--	--	--	--	--	--	--	--
NOV										
12...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
23...	ND	--	ND	--	ND	--	ND	--	ND	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	ND	--	ND	--	ND	--	ND	--	ND	--
JUN										
14...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	ND	--	ND	--	ND	--	ND	--	ND	--
27...	--	--	--	--	--	--	--	--	--	--

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)
OCT										
14...	--	--	--	--	--	--	--	--	20	99
NOV										
12...	ND	ND	ND	ND	ND	ND	ND	ND	57	94
DEC										
21...	--	--	--	--	--	--	--	--	16	85
FEB										
03...	--	--	--	--	--	--	--	--	28	81
23...	ND	--	ND	--	ND	--	ND	--	31	97
MAR										
22...	--	--	--	--	--	--	--	--	23	99
APR										
20...	--	--	--	--	--	--	--	--	114	85
MAY										
19...	ND	--	ND	--	ND	--	ND	--	27	88
JUN										
14...	--	--	--	--	--	--	--	--	220	10
SEP										
01...	ND	--	ND	--	ND	--	ND	--	33	97
27...	--	--	--	--	--	--	--	--	39	91

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

PHYTOPLANKTON

DATE	OCT 14,76		NOV 12,76		DEC 21,76		FEB 3,77		FEB 23,77	
TIME	1115		1300		1100		1130		1030	
TOTAL CELLS/ML	280		470		81		3600		180	
DIVERSITY: DIVISION	1.4		0.5		1.4		0.5		0.0	
.CLASS	1.4		0.5		1.4		0.5		0.0	
..ORDER	1.6		1.3		1.6		0.7		0.8	
...FAMILY	2.4		1.9		2.2		0.9		1.3	
....GENUS	2.4		2.3		2.2		1.5		1.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	--	-	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	--	-	--	-	--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	170	5	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	10	13	66	2	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	*	0	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	52	1	--	-
....SCENEDESMUS	27	10	--	-	--	-	79	2	--	-
....TETRASTRUM	--	-	--	-	--	-	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	*	0	--	-
...VOLVOCACEAE										
....PANDORINA	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	--	-	12	2	5	6	410	11	6	4
....MELOSIRA	20	7	110#	22	*	0	2700#	75	130#	72
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	7	2	--	-	3	3	--	-	*	0
....COCCONEIS	7	2	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-	--	-	3	2
...EUNOTIACEAE										
....EUNOTIA	--	-	--	-	--	-	--	-	*	0
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	26	1	6	4
....FRAGILARIA	--	-	210#	45	--	-	--	-	6	4
....SYNEDRA	--	-	24	5	*	0	26	1	9	5
...GOMPHONEMATACEAE										
....GOMPHONEMA	20	7	12	2	5	6	*	0	*	0
...MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	*	0	*	0
...NAVICULACEAE										
....NAVICULA	66#	24	35	7	--	-	*	0	3	2
....STAURONEIS	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	20	7	12	2	30#	38	26	1	12	7
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	3	3	--	-	3	2
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CENTRITRACTACEAE										
....CENTRITRACTUS	--	-	--	-	--	-	--	-	--	-
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	25#	31	--	-	--	-
....COCCOCHLORIS	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	110#	40	59	13	--	-	--	-	--	-

07263000 OUACHITA RIVER AT CAMDEN, AR--Continued

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

PHYTOPLANKTON

DATE TIME	MAY 19,77 1050		JUN 12,77 1100		JUN 14,77 1100		SEP 1,77 1230		SEP 27,77 1145	
TOTAL CELLS/ML	1400		11000		2400		580		700	
DIVERSITY: DIVISION	1.0		0.1		0.9		0.4		1.3	
.CLASS	1.0		0.1		0.9		0.4		1.3	
..ORDER	1.4		0.3		1.4		0.8		2.2	
...FAMILY	1.7		0.3		1.7		0.8		2.4	
....GENUS	1.7		0.3		2.0		0.8		2.9	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...COELASTRACEAE										
....COELASTRUM	--	-	--	-	68	3	--	-	--	-
...MICRACTINIACEAE										
....GOLENKINIA	*	0	--	-	--	-	--	-	--	-
....MICRACTINIUM	19	1	--	-	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRODESMUS	33	2	--	-	*	0	--	-	--	-
....DICTYOSPHAERIUM	19	1	76	1	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	--	-	12	2
....TETRAEDRON	--	-	--	-	*	0	--	-	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	--	-	12	2
....SCENEDESMUS	19	1	--	-	77	3	--	-	78	11
....TETRASTRUM	--	-	--	-	17	1	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	18	3	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	14	1	--	-	--	-	--	-	12	2
...VOLVOCACEAE										
....PANDORINA	*	0	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	*	0	*	0	64	3	--	-	27	4
....MELOSIRA	85	6	*	0	26	1	--	-	21	3
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	9	1	--	-	--	-	--	-	--	-
....COCCONEIS	*	0	*	0	--	-	--	-	*	0
...CYMBELLACEAE										
....AMPHORA	--	-	--	-	*	0	--	-	--	-
....CYMBELLA	--	-	--	-	13	1	--	-	--	-
...EUNOTIACEAE										
....EUNOTIA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	47	3	--	-	21	1	12	2	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	9	1	--	-	26	1	--	-	6	1
...MERIDIONACEAE										
....MERIDION	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	9	1	*	0	30	1	6	1	78	11
....STAURONEIS	--	-	--	-	*	0	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	28	2	*	0	77	3	6	1	*	0
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	*	0	--	-	*	0
.XANTHOPHYCEAE										
..HETEROCOCCALES										
...CENTRITRACTACEAE										
....CENTRITRACTUS	--	-	--	-	*	0	--	-	--	-
...CHLOROTHECIACEAE										
....OPHIOCYTIUM	*	0	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROCOCCALES										
...CHROCOCCACEAE										
....AGMENELLUM	--	-	--	-	1600#	67	--	-	190#	27
....ANACYSTIS	57	4	200	2	120	5	36	6	21	3
....COCCOCHLORIS	--	-	--	-	--	-	--	-	21	3
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	1000#	73	11000#	96	210	9	510#	87	210#	30

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

PERIPHYTON

DATE	LENGTH OF EXPOSURE (DAYS)	BIOMASS (MG/M^2) DRY WEIGHT	ASH WEIGHT	ORGANIC WEIGHT	CHLOROPHYLL A (MG/M^2)	CHLOROPHYLL B (MG/M^2)	BIOMASS CHLOROPHYLL RATIO	SAMPLING METHOD
SEP. 1	51	2520	1810	710	0.004	0.000	177500	POLYETHYLENE STRIP
SEP. 27	26	--	--	--	.137	.030	--	POLYETHYLENE STRIP

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	92	107	128	111	112	75	76	136	96	100	105
2	145	90	90	128	114	113	78	75	146	107	104	118
3	142	103	108	122	110	114	75	82	136	120	104	82
4	120	105	89	127	104	100	60	85	133	118	119	94
5	129	94	93	135	105	82	69	77	133	121	93	124
6	133	82	101	134	124	69	69	93	138	119	106	123
7	125	82	100	130	110	61	68	91	124	118	128	96
8	124	84	101	125	109	61	72	88	136	117	112	104
9	129	95	117	116	117	66	76	128	134	117	109	111
10	130	102	109	121	115	65	82	88	122	126	104	127
11	105	104	108	125	113	69	92	117	127	134	112	96
12	109	88	99	121	107	69	93	115	133	140	106	133
13	119	73	103	120	92	75	105	103	136	111	104	123
14	93	77	104	100	79	83	103	98	139	112	103	96
15	125	122	105	101	74	86	93	111	138	97	102	134
16	150	132	109	92	71	83	85	133	136	136	99	151
17	169	120	102	95	76	86	80	108	138	120	110	133
18	151	108	102	108	78	89	77	119	130	100	119	171
19	140	106	98	99	81	91	73	120	82	116	118	128
20	158	119	97	104	83	95	84	122	103	110	99	115
21	167	131	98	87	86	104	65	114	94	115	101	102
22	127	126	102	88	88	110	65	128	104	101	116	118
23	102	124	119	95	88	110	69	128	145	82	128	131
24	102	106	118	100	90	113	77	120	138	89	132	92
25	90	---	122	100	97	107	72	123	124	89	128	78
26	102	119	125	102	103	107	74	136	115	82	123	105
27	110	126	126	109	107	101	85	128	102	96	122	81
28	102	128	116	112	115	94	85	134	110	103	118	72
29	112	114	120	111	---	92	88	136	111	102	110	65
30	102	102	124	108	---	95	86	124	84	99	100	78
31	103	---	129	112	---	76	---	130	---	104	101	---
MEAN	124	105	108	111	98	90	79	111	124	110	111	110

07362000 OUACHITA RIVER AT CAMDEN, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.5	12.0	8.0	4.0	4.0	12.0	16.0	20.5	28.0	30.0	29.0	30.5
2	21.0	12.0	7.5	3.0	4.5	11.5	16.0	20.0	28.5	30.0	29.5	30.5
3	22.0	13.0	8.0	3.0	4.5	11.5	15.0	20.0	29.0	29.5	29.5	28.0
4	22.0	13.0	8.0	3.5	5.5	11.0	15.0	21.5	29.5	29.5	29.5	28.5
5	22.0	12.0	8.0	4.0	6.0	10.5	14.0	21.5	30.0	31.5	30.0	28.5
6	20.0	12.5	8.5	4.0	6.0	10.5	14.5	23.0	30.0	31.5	29.0	28.0
7	19.0	13.0	9.0	4.5	6.0	10.0	15.5	22.5	29.5	31.5	29.5	28.0
8	15.0	12.5	8.0	5.0	6.0	10.5	15.5	22.0	27.5	32.0	30.5	28.0
9	16.5	13.0	7.5	4.0	6.0	11.0	16.5	22.5	28.0	31.5	31.0	28.0
10	17.0	13.0	7.0	2.0	6.5	13.0	17.0	22.0	28.5	31.5	31.0	27.5
11	18.0	13.0	8.0	1.5	7.0	13.0	17.0	21.0	29.0	31.0	31.5	28.0
12	19.0	11.5	8.5	2.5	7.5	12.0	18.5	21.5	29.5	30.5	30.5	28.0
13	19.0	11.0	9.0	3.0	8.0	12.0	18.0	22.0	29.0	32.0	30.5	28.0
14	20.0	10.0	8.0	3.0	8.0	14.5	18.0	23.0	28.5	29.5	30.5	27.0
15	20.0	9.5	8.0	3.5	8.5	15.0	18.0	24.0	27.5	31.5	29.5	26.0
16	18.0	10.0	8.0	3.5	8.0	16.0	18.5	24.5	27.0	31.0	31.0	26.0
17	17.0	10.5	8.0	3.0	8.0	16.0	19.0	24.5	26.5	31.0	31.0	26.0
18	16.0	10.5	9.0	1.5	8.5	16.5	19.5	25.0	27.0	31.5	29.0	26.5
19	15.0	11.0	9.5	1.0	9.0	16.0	19.5	25.5	24.5	30.0	29.0	26.5
20	13.5	11.5	9.0	2.0	9.0	15.5	19.0	26.0	26.0	30.0	29.0	26.0
21	14.0	11.5	8.0	3.5	9.0	15.5	18.5	26.0	28.5	29.5	29.5	25.5
22	14.0	11.0	7.0	3.0	10.0	15.0	18.5	27.0	28.5	29.5	29.5	25.0
23	14.5	10.0	7.0	3.0	11.0	15.0	18.5	26.5	29.5	30.0	29.0	26.0
24	15.0	9.0	6.0	4.0	12.0	14.0	19.0	26.5	30.0	30.0	29.5	26.0
25	15.5	---	7.0	5.0	13.0	14.5	18.0	26.5	29.5	31.0	29.5	26.0
26	15.0	13.0	7.0	5.0	13.5	14.5	18.0	27.0	29.5	30.5	30.0	27.0
27	14.0	12.0	7.0	5.5	13.0	15.5	18.0	27.0	29.0	30.0	30.0	25.5
28	13.0	10.0	7.0	6.0	12.0	16.0	18.5	27.5	29.0	29.0	28.0	25.5
29	13.0	8.0	7.0	4.0	---	17.0	19.5	27.5	29.0	29.0	29.0	24.0
30	12.5	8.0	7.0	4.5	---	16.5	20.5	28.0	29.5	29.0	30.0	24.0
31	12.5	---	5.0	4.0	---	17.0	---	29.0	---	28.5	30.0	---
MEAN	17.0	11.5	7.5	3.5	8.0	14.0	17.5	24.0	28.5	30.5	30.0	27.0

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, Hydrologic Unit 08040201, 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.--16 years, 385 ft^3/s (10.9 m^3/s), 13.87 in/yr (352 mm/yr), 278,900 acre-ft/yr (344 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, 1,760 ft^3/s (49.8 m^3/s) Mar 30, gage height, 12.55 ft (3.825 m), no peak above base of 2,400 ft^3/s (68 m^3/s); minimum, 3.2 ft^3/s (0.09 m^3/s) July 18, Sept. 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	70	59	47	106	129	1500	79	20	16	29	14
2	23	60	47	45	111	114	1200	200	18	13	31	10
3	20	43	41	45	162	246	1100	222	17	12	28	8.1
4	17	30	37	49	490	1020	1000	200	15	11	22	7.6
5	15	23	35	56	700	1440	1310	151	13	9.8	17	7.2
6	15	20	54	65	630	1580	1300	112	12	7.0	19	5.8
7	15	17	142	83	420	1370	1240	90	11	4.7	17	4.6
8	15	16	195	98	238	1230	1210	99	9.9	4.4	13	4.7
9	14	16	161	127	183	1020	951	271	9.3	4.3	14	4.5
10	14	16	107	213	159	540	459	445	9.0	4.7	15	4.1
11	14	18	92	241	165	305	241	321	8.9	5.7	10	6.3
12	14	30	147	188	684	398	192	156	8.9	6.4	7.2	19
13	13	50	193	128	966	548	163	107	11	5.4	6.3	12
14	13	59	191	546	1050	568	144	84	16	4.4	6.3	10
15	12	50	137	810	897	545	131	69	22	3.6	6.1	9.9
16	12	46	103	845	722	400	121	61	81	3.3	5.2	15
17	12	39	86	622	448	258	112	57	92	3.4	4.7	12
18	13	35	75	360	233	210	531	55	109	3.2	9.8	9.9
19	13	31	68	229	186	190	941	53	116	3.8	8.0	8.3
20	14	33	63	179	161	178	900	51	69	5.6	7.5	7.1
21	16	45	58	139	139	165	807	50	38	17	7.2	6.4
22	18	51	55	131	124	150	602	49	26	18	7.0	5.5
23	18	46	50	125	132	138	340	36	21	18	8.9	4.9
24	19	43	47	168	221	129	223	29	18	16	13	4.7
25	33	40	49	232	310	128	174	28	17	11	9.1	4.4
26	44	42	52	237	293	132	149	28	20	9.5	7.4	3.8
27	44	75	57	193	204	352	125	28	18	9.3	7.4	3.6
28	35	107	62	159	154	881	106	25	18	27	17	7.7
29	33	116	62	136	---	1310	93	24	18	47	28	19
30	49	83	54	119	---	1660	83	23	17	42	28	20
31	68	---	51	109	---	1740	---	22	---	29	21	---
TOTAL	685	1350	2630	6724	10288	19074	17448	3225	879.0	375.5	430.1	260.1
MEAN	22.1	45.0	84.8	217	367	615	582	104	29.3	12.1	13.9	8.67
MAX	68	116	195	845	1050	1740	1500	445	116	47	31	20
MIN	12	16	35	45	106	114	83	22	8.9	3.2	4.7	3.6
CFSM	.06	.12	.23	.58	.97	1.63	1.54	.28	.08	.03	.04	.02
IN.	.07	.13	.26	.66	1.02	1.88	1.72	.32	.09	.04	.04	.03
AC-FT	1360	2680	5220	13340	20410	37830	34610	6400	1740	745	853	516

CAL YR 1976 TOTAL 75427.6 MEAN 206 MAX 6680 MIN 4.2 CFSM .55 IN 7.44 AC-FT 149600
WTR YR 1977 TOTAL 63368.7 MEAN 174 MAX 1740 MIN 3.2 CFSM .46 IN 6.25 AC-FT 125700

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, Hydrologic Unit 08040201, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
26...	9827	9827	48	2350	6.0	14.0	--	7.8	.9	380	190	--
NOV												
30...	9827	9827	90	1310	6.4	5.0	20	9.5	1.6	1100	--	150
DEC												
21...	9827	9827	63	1210	6.2	8.0	15	9.2	.9	100	--	--
JAN												
17...	9827	9827	672	594	6.7	4.0	40	11.3	3.0	460	160	--
FEB												
14...	9827	9827	1130	449	5.6	11.0	80	8.8	2.5	490	460	60
MAR												
29...	9827	9827	1410	495	6.0	19.0	90	6.0	3.1	--	--	--
APR												
18...	9827	9827	573	1490	5.6	21.0	30	6.3	1.8	--	--	--
MAY												
23...	9827	9827	39	204	6.8	25.0	60	7.1	2.3	150	65	--
JUN												
20...	9827	9827	75	1010	6.4	27.0	50	5.3	.7	--	--	--
JUL												
20...	9827	9827	6.0	1590	6.5	28.0	30	3.4	2.3	--	--	--
20...	9827	9827	--	--	--	--	--	--	--	16000	--	--
AUG												
17...	9827	9827	5.0	--	6.1	29.0	--	5.9	1.7	7700	--	--
SEP												
14...	9827	9827	11	2030	6.4	25.0	25	4.1	.9	5400	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	4.0
NOV											
30...	140	--	41	--	12	190	5.5	12	0	10	7.0
DEC											
21...	--	--	--	--	--	--	--	--	--	--	8.0
JAN											
17...	--	--	--	--	--	--	--	--	--	--	6.0
FEB											
14...	57	--	15	--	5.0	60	3.1	4	0	3	14
MAR											
29...	--	--	--	--	--	--	--	--	--	--	9.0
APR											
18...	--	--	--	990	--	--	--	--	--	--	6.0
MAY											
23...	--	7.0	--	2.0	--	21	2.2	--	--	--	16
JUN											
20...	--	--	--	--	--	--	--	--	--	--	10
JUL											
20...	--	--	--	--	--	--	--	--	--	--	5.0
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	75	--	20	--	420	6.9	--	--	--	3.0
SEP											
14...	--	--	--	--	--	--	--	--	--	--	6.0

07362110 SMACKOVER CREEK NORTH OF SMACKOVER, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT 26...	740	1440	82	.12	--	--	<.01	--	--	--	<10	480
NOV 30...	390	770	29	<.10	--	--	.02	<3	<10	<3	<10	660
DEC 21...	430	735	7	.28	--	--	.02	--	--	--	<10	300
JAN 17...	170	366	24	.13	--	--	.09	--	--	--	<10	780
FEB 14...	150	306	22	.12	--	--	.06	<3	<10	<3	<10	1500
MAR 29...	150	318	32	<.10	<.10	--	.08	--	--	--	<10	1100
APR 18...	460	898	74	<.10	<.10	.22	.11	--	--	--	20	3000
MAY 23...	34	136	14	--	.01	.16	.01	--	<10	--	<10	2200
JUN 20...	300	618	22	.20	.01	.25	.05	--	--	--	--	1700
JUL 20...	510	979	13	--	.00	.05	.12	--	--	--	180	4400
AUG 17...	810	--	12	.08	<.05	<.05	--	--	--	50	--	<10	550
SEP 14...	640	1210	8	--	--	--	.03	--	--	--	40	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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 26...	--	820	--	<10	--	--	--	--	--	--	--	--
NOV 30...	<10	450	1.3	20	--	--	--	--	--	--	--	--
DEC 21...	--	620	--	40	.00	.00	.00	.00	.00	.00	.00	0
JAN 17...	--	860	--	60	--	--	--	--	--	--	--	--
FEB 14...	50	760	--	40	--	--	--	--	--	--	--	--
MAR 29...	--	690	--	170	--	--	--	--	--	--	--	--
APR 18...	--	--	--	50	--	--	--	--	--	--	--	--
MAY 23...	<10	--	--	<10	--	--	--	--	--	--	--	--
JUN 20...	--	780	--	40	--	--	--	--	--	--	--	--
JUL 20...	590	--	--	660	--	--	--	--	--	--	--	--
AUG 17...	20	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	--	1700	--	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, Hydrologic Unit 08040201, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
26...	9827	9827	3700	758	5.8	16.0	5	8.5	1.3	120	5	--
NOV												
29...	9827	9827	4000	466	8.5	6.0	15	9.7	1.1	160	--	68
DEC												
21...	9827	9827	2900	330	6.5	10.0	20	9.5	1.6	80	--	--
JAN												
17...	9827	9827	--	307	5.8	3.0	30	11.9	3.2	110	190	--
FEB												
14...	9827	9827	--	--	--	--	--	--	--	300	10	--
MAR												
29...	9827	9827	--	224	7.0	20.0	60	8.4	2.1	--	--	--
APR												
18...	9827	9827	--	104	7.0	22.0	15	9.0	2.9	--	--	--
MAY												
23...	9827	9827	--	204	7.0	26.0	70	7.1	20	70	32	--
JUN												
20...	9827	9827	--	347	6.8	29.0	20	6.5	2.3	--	--	--
JUL												
20...	9827	9827	--	200	7.1	30.0	60	5.5	1.5	--	--	--
AUG												
17...	9827	9827	--	--	6.9	32.0	--	6.5	2.7	3100	--	--
SEP												
14...	9827	9827	--	335	6.9	28.0	30	8.1	3.9	8400	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	9.0
NOV											
29...	36	--	16	--	7.0	68	4.1	39	0	32	17
DEC											
21...	--	--	--	--	--	--	--	--	--	--	19
JAN											
17...	--	--	--	--	--	--	--	--	--	--	8.0
FEB											
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
29...	--	--	--	--	--	--	--	--	--	--	10
APR											
18...	--	--	--	--	--	--	--	--	--	--	19
MAY											
23...	--	7.0	--	2.0	--	21	2.1	--	--	--	16
JUN											
20...	--	--	--	--	--	--	--	--	--	--	18
JUL											
20...	--	--	--	--	--	--	--	--	--	--	24
AUG											
17...	--	17	--	5.0	--	52	5.3	--	--	--	12
SEP											
14...	--	--	--	--	--	--	--	--	--	--	17

07362400 OUACHITA RIVER AT LOCK AND DAM 8, NEAR CALION, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
26...	240	458	62	.17	--	--	.02	--	--	--	<10	800
NOV												
29...	120	261	11	.90	--	--	.03	<3	<10	<3	<10	600
DEC												
21...	76	202	18	.24	--	--	.05	--	--	--	<10	2000
JAN												
17...	78	189	36	.12	--	--	.13	--	--	--	<10	1200
MAR												
29...	46	151	61	.34	<.10	--	.11	--	--	--	<10	1800
APR												
18...	9.0	74	137	.17	.10	.87	.26	--	--	--	20	3000
MAY												
23...	34	141	13	--	.01	.17	.01	--	<10	--	<10	2100
JUN												
20...	77	215	27	.51	.01	.23	.07	--	--	--	--	1600
JUL												
20...	27	134	15	.26	.02	.16	.17	--	--	--	<10	3300
AUG												
17...	40	--	12	.47	.05	.15	--	--	120	--	<10	2400
SEP												
14...	75	204	9	--	--	--	.07	--	--	--	10	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
26...	20	580	--	40	--	--	--	--	--	--	--	--
NOV												
29...	<10	210	.9	30	--	--	--	--	--	--	--	--
DEC												
21...	<10	560	--	80	.00	.00	.00	.00	.00	.00	.00	0
JAN												
17...	230	310	--	80	--	--	--	--	--	--	--	--
MAR												
29...	10	300	--	<10	--	--	--	--	--	--	--	--
APR												
18...	--	350	--	40	--	--	--	--	--	--	--	--
MAY												
23...	<10	--	--	<10	--	--	--	--	--	--	--	--
JUN												
20...	20	330	--	50	--	--	--	--	--	--	--	--
JUL												
20...	380	--	--	490	--	--	--	--	--	--	--	--
AUG												
17...	90	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	--	240	--	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, Hydrologic Unit 08040201, 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.--26 years, 225 ft^3/s (6.37 m^3/s), 14.15 in/yr (359 mm/yr), 163,000 acre-ft/yr (201 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.--Maximum discharge, 3,130 ft^3/s (88.6 m^3/s) Apr. 4 at 1100 hours, gage height, 11.58 ft (3.530 m), no other peak above base of 2,800 ft^3/s (79 m^3/s); no flow at times.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	6.8	12	34	97	95	734	53	.78	.00	2.7	.00
2	.00	4.5	11	32	82	74	869	61	.58	.00	2.2	.00
3	.00	3.0	11	30	85	196	1330	131	.41	.00	1.8	.00
4	.00	2.5	11	27	142	884	3010	160	.29	.00	1.4	.00
5	.00	1.6	11	27	216	936	2810	159	.18	.00	1.1	.00
6	.00	.95	12	28	270	972	2900	130	.08	.00	.97	.00
7	.00	.59	24	35	299	1320	2330	89	.00	.00	.73	.00
8	.00	.30	36	44	294	1420	1550	60	.00	.00	.58	.00
9	.00	.13	35	62	226	1140	1120	44	.00	.00	.43	.00
10	.00	.00	42	111	148	840	815	35	.00	.00	.25	.00
11	.00	.31	53	144	121	514	434	28	.00	.00	.13	.00
12	.00	3.3	66	160	402	678	200	22	.00	.00	.02	.00
13	.00	6.4	99	187	580	701	116	17	.00	.00	.00	.00
14	.00	4.5	140	435	612	582	85	14	.00	.00	.00	.00
15	.00	3.6	195	587	654	476	67	12	.00	.00	2.9	.00
16	.00	3.1	238	578	770	426	55	9.8	.00	.00	8.5	3.4
17	.00	3.3	271	562	902	357	47	8.0	.00	.00	2.7	2.6
18	.00	3.7	248	567	852	231	107	6.9	.00	.00	2.8	1.8
19	.00	3.8	148	572	569	139	357	6.0	.00	.00	2.0	1.3
20	.00	5.1	84	540	281	103	607	5.2	.00	.00	1.4	.88
21	.00	10	59	337	154	83	1080	4.6	.00	.00	1.0	.65
22	.00	11	47	188	112	71	1750	3.9	.00	.00	.80	.45
23	.00	9.5	41	139	108	61	1610	3.4	.00	.62	.66	.28
24	.04	9.2	36	142	155	54	1240	3.0	.00	.61	.52	.15
25	2.0	9.2	35	171	160	49	987	2.4	.00	.55	.37	.04
26	12	29	33	205	177	46	716	2.0	.00	.47	.22	.00
27	4.7	26	32	243	162	109	374	1.8	.00	.40	.13	.00
28	3.8	22	33	255	124	715	170	1.6	.00	1.2	.03	1.3
29	5.1	16	35	219	---	916	97	1.3	.00	1.4	.00	29
30	8.2	13	38	162	---	789	69	1.1	.00	3.0	.00	15
31	9.9	---	37	121	---	717	---	.90	---	3.0	.00	---
TOTAL	45.74	212.38	2173	6944	8754	15694	27636	1076.90	2.32	11.25	36.34	56.85
MEAN	1.48	7.08	70.1	224	313	506	921	34.7	.077	.36	1.17	1.90
MAX	12	29	271	587	902	1420	3010	160	.78	3.0	8.5	29
MIN	.00	.00	11	27	82	46	47	.90	.00	.00	.00	.00
CFSM	.007	.03	.33	1.04	1.45	2.34	4.26	.16	.000	.002	.005	.009
IN.	.01	.04	.37	1.20	1.51	2.70	4.76	.19	.00	.00	.01	.01
AC-FT	91	421	4310	13770	17360	31130	54820	2140	4.6	22	72	113

CAL YR 1976 TOTAL 66722.70 MEAN 182 MAX 4830 MIN .00 CFSM .84 IN 11.49 AC-FT 132300
WTR YR 1977 TOTAL 62642.78 MEAN 172 MAX 3010 MIN .00 CFSM .80 IN 10.79 AC-FT 124300

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, Hydrologic Unit 08040201, at bridge on State Highway 4, 4.0 mi (6.4 km) west of Banks.

DRAINAGE AREA.--374 mi² (969 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
26...	9827	9827	.20	59	6.7	16.0	45	6.2	2.6	460	330	--
NOV												
29...	9827	9827	112	106	6.8	6.0	60	8.4	3.0	1500	--	48
DEC												
21...	9827	9827	247	50	6.3	7.0	65	9.3	2.4	480	--	--
JAN												
17...	9827	9827	800	69	6.2	1.0	70	12.3	4.3	2600	140	--
FEB												
14...	9827	9827	854	88	5.9	11.0	80	8.9	2.3	--	--	24
14...	9827	9827	--	--	--	--	--	--	--	1200	280	--
MAR												
29...	9827	9827	--	100	7.2	19.0	15	10.2	2.0	--	--	--
APR												
18...	9827	9827	148	59	6.5	21.0	50	5.6	1.6	--	--	--
MAY												
23...	9827	9827	--	62	6.7	26.0	100	8.3	7.8	<10	15	--
JUN												
20...	9827	9827	--	75	6.8	29.0	80	4.2	>4.2	--	--	--
JUL												
20...	9827	9827	--	75	6.9	28.0	40	7.2	>7.2	15000	--	--
AUG												
17...	9827	9827	--	--	6.9	30.0	--	4.8	>4.8	3200	--	--
SEP												
14...	9827	9827	--	75	6.9	26.0	50	8.7	>8.7	4900	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	4.0
NOV											
29...	31	--	6.0	--	8.0	14	4.3	21	0	17	11
DEC											
21...	--	--	--	--	--	--	--	--	--	--	5.0
JAN											
17...	--	--	--	--	--	--	--	--	--	--	18
FEB											
14...	19	--	5.0	--	3.0	7.5	2.1	6	0	5	18
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
29...	--	--	--	--	--	--	--	--	--	--	7.0
APR											
18...	--	--	--	--	--	--	--	--	--	--	5.0
MAY											
23...	--	1.0	--	1.0	--	5.3	1.4	--	--	--	5.0
JUN											
20...	--	--	--	--	--	--	--	--	--	--	2.0
JUL											
20...	--	--	--	--	--	--	--	--	--	--	3.0
AUG											
17...	--	4.0	--	3.0	--	8.2	2.7	--	--	--	1.0
SEP											
14...	--	--	--	--	--	--	--	--	--	--	3.0

07362550 MORO CREEK NEAR BANKS, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
26...	10	64	2	.13	--	--	.05	--	--	--	--	--
NOV												
29...	17	110	3	.14	--	--	.05	<3	<10	<3	<10	530
DEC												
21...	7.0	82	6	.91	--	--	.02	--	--	--	--	--
JAN												
17...	8.0	84	13	.35	--	--	.11	--	--	--	--	--
FEB												
14...	12	104	15	.10	--	--	.04	<3	<10	<3	<10	1200
MAR												
29...	16	88	11	.15	<.10	--	.03	--	--	--	--	--
APR												
18...	9.5	88	30	<.10	<.10	<.10	.09	--	--	--	--	--
MAY												
23...	7.5	98	26	--	.01	.43	.01	--	<10	--	<10	2700
JUN												
20...	8.0	83	34	<.05	.01	.14	.13	--	--	--	--	--
JUL												
20...	10	78	37	--	.01	.05	.31	--	--	--	--	--
AUG												
17...	9.5	--	29	<.05	<.05	<.05	--	--	60	--	<10	980
SEP												
14...	10	76	62	--	--	--	.21	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
29...	<10	81	1.2	20	--	--	--	--	--	--	--	--
DEC												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
14...	30	110	--	30	.00	.00	.00	.00	.00	.00	.00	0
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
23...	<10	--	--	<10	--	--	--	--	--	--	--	--
JUN												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
17...	40	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040203, 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 records 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 3.3 ft^3/s (0.094 m^3/s) for municipal use just above station. At times low flow is augmented by releases from Lake Norrell.

AVERAGE DISCHARGE.--27 years, 766 ft^3/s (21.7 m^3/s), 555,000 acre-ft/yr (684 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.--Peak discharges above base of 14,000 ft^3/s (400 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 4	0415	*27,800	787	21.03	6.410
Mar. 28	1215	20,800	589	19.48	5.938

Minimum discharge, 9.1 ft^3/s (0.26 m^3/s) Sept. 7, gage height, 3.13 ft (0.954 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	512	206	131	321	518	1200	268	41	59	197	17
2	32	345	174	121	294	466	1030	280	36	50	133	17
3	30	268	154	113	349	8540	986	392	33	42	90	16
4	28	223	145	109	717	20400	2920	381	33	50	68	15
5	35	181	141	115	645	3680	3110	320	30	51	57	13
6	37	151	149	124	502	1840	1820	267	29	39	47	12
7	59	143	232	135	424	1330	1320	234	27	34	50	12
8	85	131	333	143	370	1020	1030	200	28	29	43	13
9	69	119	312	151	342	801	816	201	27	34	37	21
10	58	112	272	178	320	659	662	175	26	111	31	30
11	50	104	3530	177	338	799	558	162	24	57	28	25
12	46	98	4210	168	2400	1030	468	150	22	44	25	22
13	41	97	1760	275	2030	823	384	139	21	42	26	97
14	36	105	1100	4030	1240	618	337	118	20	42	30	117
15	35	104	766	3320	875	516	298	101	21	34	201	202
16	33	100	578	2010	660	447	269	89	25	28	187	287
17	30	99	464	1350	553	389	246	81	34	23	104	173
18	28	97	388	959	493	364	498	75	73	21	69	125
19	31	93	339	776	424	340	3300	71	130	21	54	90
20	38	110	301	576	364	315	3680	67	91	44	43	70
21	46	140	261	507	330	287	6840	62	68	304	38	59
22	47	224	235	452	307	268	2920	60	55	297	34	51
23	54	208	214	441	365	278	1680	58	45	135	31	43
24	83	170	199	676	1430	278	1170	54	36	112	28	41
25	1270	149	189	862	1070	269	859	55	54	93	26	39
26	1770	148	174	738	735	240	644	52	124	105	23	41
27	670	214	158	619	682	900	513	47	133	74	22	56
28	369	335	150	546	632	16600	417	44	76	66	22	60
29	270	279	146	457	---	9060	352	45	67	65	21	59
30	332	236	144	381	---	2660	303	43	69	167	18	68
31	897	---	141	348	---	1630	---	43	---	335	19	---
TOTAL	6643	5295	17565	20988	19206	77365	40630	4334	1498	2608	1802	1891
MEAN	214	177	567	677	686	2496	1354	140	49.9	84.1	58.1	63.0
MAX	1770	512	4210	4030	2400	20400	6840	392	133	335	201	287
MIN	28	93	141	109	294	240	246	43	20	21	18	12
AC-FT	13180	10500	34840	41630	38100	153500	80590	8600	2970	5170	3570	3750

CAL YR 1976 TOTAL 169985.8 MEAN 464 MAX 10400 MIN 8.5 AC-FT 337200
WTR YR 1977 TOTAL 199825.0 MEAN 547 MAX 20400 MIN 12 AC-FT 396400

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, Hydrologic Unit 08040203, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
OCT												
20...	9827	9827	--	33	153	7.8	15.0	5	8.9	.5	560	320
NOV												
23...	9827	9827	--	--	--	--	--	--	--	--	--	--
DEC												
15...	9827	9827	--	790	85	7.5	10.0	25	10.6	1.6	500	--
JAN												
25...	9827	9827	--	892	104	7.6	9.0	15	12.7	2.3	60	30
FEB												
16...	9827	9827	--	--	--	--	--	--	--	--	10	50
16...	9827	9827	--	677	94	7.5	9.0	25	11.8	1.6	--	--
MAR												
16...	9827	9827	--	460	111	7.6	17.0	10	9.2	1.1	--	--
MAY												
17...	9827	9827	--	--	--	--	--	--	--	--	150	--
18...	9827	9827	--	74	134	7.7	26.0	10	--	--	--	--
JUN												
14...	9827	9827	--	19	146	7.9	28.0	15	6.4	.5	--	--
JUL												
20...	9827	9827	--	--	128	7.7	31.0	20	6.1	.7	--	--
AUG												
23...	9827	9827	--	--	--	--	--	--	--	--	130	--
24...	9827	9827	--	--	123	7.7	28.0	20	6.8	1.5	--	--
SEP												
21...	9827	9827	5900	--	117	7.5	25.0	30	6.7	1.0	620	--

DATE	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT												
20...	110	43	--	28	--	9.0	2.4	1.0	82	--	67	5.0
NOV												
23...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
15...	--	--	--	--	--	--	--	--	--	--	--	9.0
JAN												
25...	52	12	--	14	--	4.0	1.6	.5	49	0	40	9.0
FEB												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	7.0
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	7.0
MAY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	7.0
JUN												
14...	--	--	22	--	5.0	--	4.3	1.0	--	--	--	--
JUL												
20...	--	--	--	--	--	--	--	--	--	--	--	5.0
AUG												
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	2.0
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	7.0

07363002 SALINE RIVER WEST OF BENTON, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
20...	4.5	85	8	.18	--	--	.01	--	<10	<3	30	90
DEC												
15...	4.0	64	13	.16	--	--	.03	--	--	--	50	190
JAN												
25...	4.5	67	10	<.10	--	--	.01	<3	20	<3	80	260
FEB												
16...	5.0	69	9	<.10	--	--	.02	--	--	--	150	320
MAR												
16...	4.0	79	3	--	--	--	.01	--	--	--	70	1200
MAY												
18...	4.0	73	9	--	--	.06	.03	--	--	--	60	460
JUN												
14...	4.0	95	8	--	.00	.00	.02	--	<10	<9	40	330
JUL												
20...	4.5	89	13	--	.00	.09	.12	--	--	--	80	370
AUG												
24...	4.5	80	17	<.05	<.05	.05	.05	--	--	--	--	--
SEP												
21...	4.5	--	19	.25	<.05	.09	.07	--	--	--	140	900

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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	<27	<.5	10	--	--	--	--	--	--	--	--
DEC												
15...	--	<27	--	210	.00	.00	.00	.00	.00	.00	.00	0
JAN												
25...	20	<27	--	40	--	--	--	--	--	--	--	--
FEB												
16...	--	98	--	230	--	--	--	--	--	--	--	--
MAR												
16...	--	--	--	100	--	--	--	--	--	--	--	--
MAY												
18...	--	230	--	80	--	--	--	--	--	--	--	--
JUN												
14...	30	86	--	50	--	--	--	--	--	--	--	--
JUL												
20...	--	130	--	40	--	--	--	--	--	--	--	--
AUG												
24...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
21...	--	120	--	80	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040203, 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 records 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.--7 years, 1,700 ft^3/s (48.1 m^3/s), 20.45 in/yr (519 mm/yr), 1,232,000 acre-ft/yr (1,519 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.--Peak discharges above base of 14,000 ft^3/s (400 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 7	1700	*19,400	549	16.92	5.157
Apr. 1	0600	14,700	416	16.44	5.011

Minimum discharge, 29 ft^3/s (0.82 m^3/s) Sept. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	644	472	328	715	1000	14000	742	89	126	143	42
2	55	824	422	303	650	921	9820	706	82	103	366	38
3	52	827	380	288	635	1020	6500	772	76	97	340	35
4	49	628	346	276	788	2170	5190	831	71	86	231	38
5	50	483	321	270	1030	3040	4450	860	70	79	163	38
6	57	389	319	280	1280	3990	4050	816	65	70	122	39
7	81	315	347	314	1300	15800	4050	677	63	65	100	32
8	100	265	450	365	1080	15700	4520	550	57	67	84	30
9	93	235	524	435	873	9790	4670	466	53	61	73	32
10	76	211	563	568	753	6520	4170	407	50	62	69	32
11	102	191	815	638	700	5000	3000	376	49	55	63	33
12	101	178	1250	609	1270	5800	1710	362	49	80	58	31
13	83	167	1630	551	1920	6800	1130	328	48	137	56	30
14	72	164	2050	878	2490	7000	865	296	51	97	54	48
15	67	162	2350	1430	2940	4000	721	264	98	70	52	121
16	65	162	2670	2060	3330	2500	624	240	71	60	93	371
17	55	169	2660	2490	3410	1800	549	219	82	57	103	369
18	50	168	1780	2970	2510	1380	935	202	132	52	233	334
19	50	165	1050	3410	1500	1100	1360	186	109	55	237	304
20	50	178	761	3560	1070	880	1690	172	98	68	164	227
21	46	209	640	2560	875	681	2940	160	105	92	116	176
22	51	268	564	1480	769	619	3720	150	138	87	90	143
23	54	304	509	1070	707	561	5620	139	120	110	70	113
24	63	311	463	995	683	515	8530	131	97	245	60	98
25	114	329	435	1070	752	492	8100	127	82	247	55	87
26	305	319	429	1190	1220	491	6340	127	75	165	49	80
27	851	300	449	1320	1420	541	4920	117	72	134	45	80
28	1450	329	453	1260	1200	1160	3510	109	102	147	45	83
29	1430	367	429	1100	---	2200	1770	103	186	163	48	78
30	925	441	391	939	---	3030	1020	97	172	135	43	93
31	643	---	360	812	---	7370	---	92	---	109	42	---
TOTAL	7298	9702	26282	35819	37870	113871	120474	10824	2612	3181	3467	3255
MEAN	235	323	848	1155	1353	3673	4016	349	87.1	103	112	109
MAX	1450	827	2670	3560	3410	15800	14000	860	186	247	366	371
MIN	46	162	319	270	635	491	549	92	48	52	42	30
CFSM	.21	.29	.75	1.02	1.20	3.25	3.56	.31	.08	.09	.10	.10
IN.	.24	.32	.87	1.18	1.25	3.75	3.97	.36	.09	.10	.11	.11
AC-FT	14480	19240	52130	71050	75120	225900	239000	21470	5180	6310	6880	6460

CAL YR 1976 TOTAL 334553 MEAN 914 MAX 9460 MIN 32 CFSM .81 IN 11.02 AC-FT 663600
WTR YR 1977 TOTAL 374655 MEAN 1026 MAX 15800 MIN 30 CFSM .91 IN 12.34 AC-FT 743100

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, Hydrologic Unit 08040203, 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 except those below 2.0 ft^3/s (0.057 m^3/s), which are poor.

AVERAGE DISCHARGE.--16 years, 223 ft^3/s (6.32 m^3/s), 14.84 in/yr (377 mm/yr), 161,600 acre-ft/yr (199 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, 1,810 ft^3/s (51.3 m^3/s) Mar. 5, gage height, 13.46 ft (4.103 m) from maximum stage indicator, no peak above base of 5,000 ft^3/s (140 m^3/s); no flow Oct. 1-5, 16-18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	31	9.6	9.9	42	90	457	52	4.1	3.5	37	1.8
2	.00	15	8.4	9.7	39	90	228	72	3.8	2.4	20	2.1
3	.00	9.3	7.7	9.2	45	200	225	245	3.4	1.6	13	6.3
4	.00	5.2	8.5	8.9	108	500	378	263	3.5	1.6	11	6.5
5	.00	3.8	8.1	9.7	168	1300	671	157	3.3	1.0	9.4	6.6
6	.07	7.1	8.5	11	131	1100	707	104	3.4	.77	7.4	6.2
7	1.9	3.6	8.3	13	93	805	568	75	3.3	.59	5.8	4.8
8	6.1	2.3	19	17	75	561	296	57	2.6	.65	3.9	7.6
9	2.8	4.3	22	25	66	279	188	46	1.9	.63	2.9	11
10	1.6	4.5	16	30	59	210	143	87	1.6	.75	2.5	10
11	.88	5.8	16	32	58	195	115	86	1.5	23	3.5	9.7
12	.57	5.5	48	25	230	397	96	57	1.3	14	3.6	9.5
13	.34	2.9	77	21	423	633	84	40	1.1	8.8	5.0	8.9
14	.19	2.5	47	93	412	574	72	31	.99	4.9	14	13
15	.01	2.8	31	283	259	337	65	26	1.0	3.2	55	93
16	.00	3.1	24	283	166	222	59	22	1.5	2.3	25	98
17	.00	3.2	19	225	123	175	53	19	3.0	1.8	16	33
18	.00	3.1	16	175	100	154	216	18	6.5	2.0	11	18
19	.01	3.6	13	145	80	143	558	16	9.0	2.2	9.6	14
20	.26	4.2	11	115	70	128	529	15	5.7	2.9	9.3	12
21	.61	4.9	11	90	55	118	604	15	3.2	8.1	10	11
22	1.1	14	9.5	75	55	109	865	14	2.5	7.4	11	9.5
23	1.8	12	9.1	75	100	101	952	14	2.0	3.9	11	9.2
24	2.7	9.9	9.1	135	190	93	867	14	1.7	3.1	9.8	9.1
25	14	8.2	9.2	170	242	91	430	12	1.9	3.5	8.7	9.7
26	64	9.9	11	190	185	89	192	11	1.9	2.7	5.1	10
27	47	10	13	130	136	122	125	9.6	1.9	3.0	3.7	11
28	16	13	13	100	114	425	96	8.5	1.8	2.5	3.0	11
29	8.1	15	12	75	---	1210	77	5.8	10	2.5	2.6	12
30	4.8	11	11	60	---	1380	63	5.1	6.5	6.9	2.4	11
31	18	---	10	48	---	905	---	4.9	---	34	2.3	---
TOTAL	192.84	230.7	536.0	2688.4	3824	12736	9979	1601.9	95.89	156.19	334.5	475.5
MEAN	6.22	7.69	17.3	86.7	137	411	333	51.7	3.20	5.04	10.8	15.9
MAX	64	31	77	283	423	1380	952	263	10	34	55	98
MIN	.00	2.3	7.7	8.9	39	89	53	4.9	.99	.59	2.3	1.8
CFSM	.03	.04	.09	.43	.67	2.02	1.63	.25	.02	.03	.05	.08
IN.	.04	.04	.10	.49	.70	2.32	1.82	.29	.02	.03	.06	.09
AC-FT	382	458	1060	5330	7580	25260	19790	3180	190	310	663	943

CAL YR 1976 TOTAL 35333.51 MEAN 96.5 MAX 2990 MIN .00 CFSM .47 IN 6.44 AC-FT 70080
WTR YR 1977 TOTAL 32850.92 MEAN 90.0 MAX 1380 MIN .00 CFSM .44 IN 5.99 AC-FT 65160

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, Hydrologic Unit 08040204, 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.--40 years, 2,566 ft^3/s (72.7 m^3/s), 16.90 in/yr (429 mm/yr), 1,859,000 acre-ft/yr (2,290 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.--Peak discharges above base of 10,000 ft^3/s (280 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 15	0900	12,200	346	22.78	6.943
Apr. 7	1900	*14,100	399	23.42	7.138

Minimum discharge, 30 ft^3/s (0.85 m^3/s) Sept. 12, 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	1070	386	480	1320	1720	4530	7120	133	156	167	55
2	79	736	434	445	1130	1620	4550	6810	126	183	140	54
3	73	666	468	413	1000	1570	5080	5900	117	158	140	49
4	70	789	444	385	1040	3620	7400	4110	111	127	327	47
5	72	821	408	366	1230	4950	9200	3040	106	111	388	46
6	73	677	391	359	1520	5410	11500	2640	98	104	305	42
7	67	525	444	367	1730	5640	13800	2200	90	91	224	41
8	65	426	448	403	1820	5760	13600	1700	82	91	174	40
9	68	359	429	480	1780	5740	12300	1280	79	82	143	44
10	90	311	499	677	1560	5840	10800	981	76	88	122	44
11	106	290	580	789	1310	6730	9400	789	69	94	106	35
12	96	271	695	900	1680	8590	8230	679	65	85	93	31
13	92	250	1090	975	2640	10200	7270	615	61	75	84	30
14	110	235	1570	1730	3260	11500	6400	590	65	66	77	43
15	105	224	1920	2660	3620	12100	5280	546	79	111	78	50
16	93	216	2150	2890	3740	11500	3350	494	82	128	84	48
17	83	212	2290	3050	3700	10500	1660	424	88	109	70	57
18	75	211	2410	3150	3620	9270	1200	377	99	88	72	261
19	71	211	2510	3140	3600	7970	1390	338	91	77	110	400
20	69	221	2440	3080	3600	6600	2250	297	111	85	184	392
21	63	230	1850	3080	3420	4870	4720	272	126	76	253	354
22	59	236	1150	3180	2650	2770	5700	249	111	83	215	282
23	56	242	820	3260	1740	1570	5660	227	108	99	167	221
24	71	280	691	3150	1540	1210	5650	214	127	112	137	184
25	130	319	641	2610	1450	1050	5600	202	137	117	113	156
26	161	346	567	2080	1370	943	5480	191	129	218	92	136
27	144	411	534	1950	1370	947	5650	183	122	252	76	122
28	291	406	523	1930	1580	1800	6200	176	108	208	71	113
29	768	363	537	1910	---	3510	6780	168	104	169	69	113
30	1210	356	536	1800	---	4220	7120	156	99	159	63	110
31	1340	---	515	1540	---	4450	---	142	---	174	57	---
TOTAL	5941	11914	30370	53279	60020	164170	197750	43110	2999	3776	4401	3600
MEAN	192	397	980	1719	2144	5296	6592	1391	100	122	142	120
MAX	1340	1070	2510	3260	3740	12100	13800	7120	137	252	388	400
MIN	56	211	386	359	1000	943	1200	142	61	66	57	30
CFSM	.09	.19	.48	.83	1.04	2.57	3.20	.68	.05	.06	.07	.06
IN.	.11	.21	.55	.96	1.08	2.96	3.57	.78	.05	.07	.08	.06
AC-FT	11780	23630	60240	105700	119000	325600	392200	85510	5950	7490	8730	7140

CAL YR 1976 TOTAL 545438 MEAN 1490 MAX 11800 MIN 52 CFSM .72 IN 9.44 AC-FT 1082000
WTR YR 1977 TOTAL 581330 MEAN 1593 MAX 13800 MIN 30 CFSM .77 IN 10.49 AC-FT 1153000

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, Hydrologic Unit 08040204, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
12...	9827	9827	--	--	--	--	--	--	--	75	<20	--
12...	9827	9827	--	--	--	--	--	--	--	--	--	--
13...	9827	9827	120	138	7.4	18.0	30	6.9	1.0	--	--	56
NOV												
09...	9827	9827	467	141	7.3	11.0	20	9.5	.9	150	--	--
DEC												
08...	9827	9827	582	126	7.4	8.0	5	10.8	2.0	280	--	--
JAN												
12...	9827	9827	1170	544	7.0	4.0	30	12.0	1.9	70	--	80
FEB												
01...	9827	9827	--	--	--	--	--	--	--	60	<5	--
28...	9827	9827	--	--	--	--	--	--	--	160	<5	--
APR												
04...	9827	9827	9620	157	7.3	16.0	120	9.0	1.4	--	--	27
MAY												
03...	9827	9827	--	--	--	--	--	--	--	390	210	--
03...	9827	9827	7670	67	6.9	21.0	40	6.8	1.6	--	--	--
JUN												
06...	9827	9827	127	115	7.7	32.0	55	10.1	3.2	10	--	--
JUL												
06...	9827	9827	135	125	7.7	34.0	20	9.0	2.5	40	--	--
AUG												
03...	9827	9827	182	323	7.2	31.0	35	7.7	2.1	720	--	--
31...	9827	9827	74	512	7.4	32.0	30	9.0	2.8	64	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
13...	19	--	17	--	3.0	8.1	1.6	45	--	37	20
NOV											
09...	--	--	--	--	--	--	--	--	--	--	11
DEC											
08...	--	--	--	--	--	--	--	--	--	--	24
JAN											
12...	51	--	22	--	6.0	80	3.0	35	0	29	17
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
04...	--	3.5	--	2.9	--	13	2.5	--	--	--	11
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	8.0
JUN											
06...	--	--	--	--	--	--	--	--	--	--	17
JUL											
06...	--	11	--	3.0	--	--	--	--	--	--	--
AUG											
03...	--	--	--	--	--	--	--	--	--	--	16
31...	--	--	--	--	--	--	--	--	--	--	10

07364012 SALINE RIVER NEAR FOUNTAIN HILL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
12...	--	--	--	--	--	--	--	--	--	--	--	--
13...	9.5	101	8	.52	--	--	.06	<3	<10	<3	10	840
NOV												
09...	24	96	26	.51	--	--	.03	--	--	--	390	<20
DEC												
08...	6.5	94	--	<.10	--	--	.06	--	--	--	<10	250
JAN												
12...	140	324	22	.62	--	--	.05	3	<10	<3	30	840
APR												
04...	21	122	50	.16	<.10	.23	.08	<3	<10	<3	<10	3300
MAY												
03...	4.5	70	16	.02	.01	.09	.05	--	--	--	--	1100
JUN												
06...	7.5	88	16	--	.01	.07	.03	--	--	--	<10	1500
JUL												
06...	7.0	80	4	--	.00	1.7	--	--	<10	<10	<10	220
AUG												
03...	70	208	26	.38	.01	--	.03	--	--	--	<10	620
31...	120	325	14	.45	<.05	<.05	.05	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
12...	--	--	--	--	.00	.00	.00	.00	.00	.00	.00	0
13...	10	350	1.5	20	--	--	--	--	--	--	--	--
NOV												
09...	<10	510	--	20	--	--	--	--	--	--	--	--
DEC												
08...	20	72	--	20	--	--	--	--	--	--	--	--
JAN												
12...	40	220	--	50	--	--	--	--	--	--	--	--
APR												
04...	20	130	--	40	--	--	--	--	--	--	--	--
MAY												
03...	<10	100	--	<10	--	--	--	--	--	--	--	--
JUN												
06...	30	350	--	90	--	--	--	--	--	--	--	--
JUL												
06...	<10	110	--	10	.00	.00	.00	.00	.00	.00	.00	0
AUG												
03...	110	170	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040202, 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, 1,610 micromhos Nov. 26; minimum daily, 87 micromhos Apr. 13, 27.
WATER TEMPERATURES: Maximum, 32.0°C on many days during June, July, and August; minimum, 4.0°C Jan 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
12...	9827	9827	2690	137	7.3	22.0	25	7.2	3.4	250	20	60
NOV												
09...	9827	9827	5000	141	7.2	12.0	20	9.5	.9	100	--	--
DEC												
08...	9827	9827	3750	138	7.5	8.0	15	10.9	2.2	180	--	--
JAN												
12...	9827	9827	7130	554	7.1	4.0	20	11.9	2.0	95	--	78
31...	9827	9827	--	--	--	--	--	--	--	60	10	--
FEB												
28...	9827	9827	--	--	--	--	--	--	--	300	<5	--
MAY												
03...	9827	9827	--	72	7.0	22.0	50	7.0	1.8	210	260	--
JUN												
06...	9827	9827	1460	115	7.6	31.0	50	10.2	3.3	10	--	--
JUL												
06...	9827	9827	1680	188	6.2	35.0	60	7.6	2.1	87	--	--
AUG												
03...	9827	9827	1520	321	7.1	32.0	35	7.5	2.0	720	--	--
31...	9827	9827	957	510	7.4	34.0	40	8.4	2.0	72	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
12...	23	--	16	--	5.0	8.1	1.6	45	--	37	20
NOV											
09...	--	--	--	--	--	--	--	--	--	--	11
DEC											
08...	--	--	--	--	--	--	--	--	--	--	23
JAN											
12...	49	--	21	--	6.0	73	3.0	35	0	29	17
31...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	8.0
JUN											
06...	--	--	--	--	--	--	--	--	--	--	16
JUL											
06...	--	8.0	--	2.0	--	--	--	--	--	--	--
AUG											
03...	--	--	--	140	--	--	--	--	--	--	17
31...	--	--	--	--	--	--	--	--	--	--	11

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT								
12...	9.5	102	5	.44	--	--	.05	<3
NOV								
09...	24	97	28	.28	--	--	.03	--
DEC								
08...	7.5	94	8	<.10	--	--	.05	--
JAN								
12...	140	320	30	.77	--	--	.06	7
MAY								
03...	5.5	74	15	.03	.01	.11	.07	--
JUN								
06...	6.5	90	21	--	.01	.06	.02	--
JUL								
06...	34	129	14	.31	.01	.04	--	--
AUG								
03...	70	204	13	.39	.01	--	.03	--
31...	130	333	12	.45	<.05	<.05	.05	--

DATE	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)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT								
12...	<10	<3	30	910	30	310	<.5	30
NOV								
09...	--	--	<10	530	20	21	--	10
DEC								
08...	--	--	<10	560	30	100	--	10
JAN								
12...	10	<3	30	780	60	230	--	50
MAY								
03...	--	--	--	1200	40	110	--	20
JUN								
06...	--	--	<10	1700	<10	330	--	70
JUL								
06...	<10	20	10	1300	<10	410	--	60
AUG								
03...	--	--	<10	180	<10	--	--	--
31...	--	--	--	--	--	--	--	--

07364080 OUACHITA RIVER NEAR FELSENTHAL, AR--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	192	292	268	192	255	118	100	262	220	326	305
2	298	229	313	279	207	212	124	98	251	204	324	304
3	236	243	440	258	203	194	102	102	236	204	351	428
4	215	253	303	340	198	200	103	109	239	205	350	423
5	254	305	225	342	212	245	105	111	238	223	351	375
6	271	244	176	307	262	356	108	154	235	221	321	493
7	300	191	175	305	362	132	115	154	252	213	312	554
8	306	153	184	310	252	95	118	156	246	213	321	553
9	356	171	179	---	197	89	165	151	245	214	318	566
10	282	151	222	305	206	99	99	130	252	220	289	938
11	331	156	290	366	228	101	142	131	227	216	305	922
12	318	165	499	403	214	102	97	198	227	253	319	302
13	303	166	313	453	216	100	87	176	250	264	305	292
14	297	197	223	358	251	101	88	223	--	266	328	296
15	295	221	188	243	189	97	95	179	231	307	417	267
16	302	220	188	281	136	96	95	178	233	243	492	253
17	290	232	219	157	115	104	93	178	247	285	493	237
18	275	223	185	160	110	114	95	175	230	226	382	203
19	274	249	197	149	156	115	99	181	232	234	373	204
20	277	246	160	160	142	114	103	177	289	446	361	296
21	268	212	173	169	183	116	117	192	246	441	250	309
22	259	218	186	179	167	119	121	205	246	442	248	347
23	267	220	151	159	151	109	135	204	246	269	300	447
24	235	223	158	155	157	272	110	202	230	269	297	255
25	252	222	200	156	174	107	110	200	229	279	297	277
26	244	1610	205	180	166	113	98	202	219	288	311	280
27	286	339	235	174	207	126	87	203	242	288	310	288
28	272	285	218	253	195	164	98	210	238	285	309	295
29	366	340	205	270	---	296	99	224	218	287	280	226
30	318	256	180	218	---	194	99	210	217	284	285	232
31	200	---	183	199	---	195	---	209	---	311	276	---
MEAN	284	271	228	252	195	153	108	172	234	268	329	372

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	13.5	10.0	7.0	7.0	14.0	18.0	20.5	30.0	30.0	31.5	30.0
2	24.5	18.0	10.0	9.0	8.0	14.5	17.5	20.0	31.5	30.0	32.0	30.0
3	25.0	13.0	12.0	8.5	7.5	15.0	17.5	20.0	31.5	30.0	31.0	30.0
4	23.0	16.0	11.5	8.0	7.0	15.0	17.0	20.0	32.0	30.0	31.0	30.0
5	25.0	15.0	14.0	8.0	8.0	13.0	15.0	21.0	32.0	30.0	30.0	30.0
6	23.0	15.0	13.0	5.5	8.0	12.5	16.0	20.5	28.0	30.0	32.0	30.0
7	22.0	15.0	9.0	8.0	8.5	14.0	15.0	20.5	30.0	30.0	32.0	30.0
8	22.0	15.0	9.5	8.0	8.5	13.0	15.5	19.0	32.0	30.0	32.0	30.0
9	22.0	15.0	10.0	---	8.5	13.0	16.0	20.5	32.0	30.0	32.0	30.0
10	23.5	15.0	10.5	7.5	9.0	13.0	18.5	22.0	30.0	30.0	32.0	30.0
11	19.5	13.0	10.0	8.0	9.5	13.5	18.5	22.0	31.5	30.0	32.0	30.0
12	25.0	18.0	10.5	5.5	10.0	15.0	18.0	21.5	31.0	30.0	32.0	30.0
13	24.0	11.5	8.5	7.5	10.0	15.0	18.5	22.0	31.0	30.0	30.0	30.0
14	23.0	15.0	11.0	7.0	11.5	15.0	18.5	23.0	31.0	30.0	30.0	30.0
15	20.0	15.0	10.5	6.5	12.5	15.0	19.5	23.0	27.5	30.5	32.0	30.0
16	19.0	15.0	11.0	6.0	12.5	15.5	19.5	24.0	27.5	30.5	32.0	30.0
17	19.0	10.5	13.0	5.0	14.0	16.5	20.0	24.5	30.0	30.5	32.0	30.0
18	19.0	15.0	11.0	5.0	14.0	17.0	20.0	24.0	30.0	31.0	30.5	30.0
19	19.0	15.0	11.5	4.5	14.0	17.0	20.0	25.0	29.5	31.0	31.0	30.0
20	20.0	15.0	9.0	5.0	12.5	16.0	17.5	25.0	29.5	31.0	31.0	30.0
21	22.0	15.0	9.0	7.5	13.5	16.0	19.5	24.0	30.0	31.5	31.0	30.0
22	22.5	12.0	10.0	4.0	12.0	15.5	19.0	26.0	30.0	32.0	31.0	30.0
23	20.0	15.0	11.0	7.0	13.5	17.0	19.5	26.0	30.0	32.0	31.0	30.0
24	20.0	15.0	10.0	5.0	13.5	17.0	20.0	25.0	30.0	32.0	31.5	30.0
25	18.0	15.0	11.0	7.5	14.0	17.5	20.0	27.0	30.5	32.0	31.5	30.0
26	18.0	15.0	10.0	7.0	14.0	17.5	20.0	27.0	30.0	32.0	32.0	29.5
27	18.0	12.0	10.0	6.0	14.0	17.5	20.0	26.0	30.5	32.0	30.0	29.5
28	15.0	11.0	10.0	7.0	15.0	18.0	20.0	28.5	30.5	32.0	30.0	30.0
29	16.0	10.0	10.0	7.0	---	19.5	19.5	30.0	30.0	32.0	30.0	29.5
30	17.0	11.5	12.0	7.0	---	19.0	20.0	30.0	30.0	32.0	30.0	30.0
31	14.0	---	8.0	6.0	---	17.5	---	30.0	---	---	30.0	---
MEAN	21.0	14.0	10.5	6.5	11.0	15.5	18.5	24.0	30.5	31.0	31.0	30.0

07364088 COFFEE CREEK NEAR CROSSETT, AR

LOCATION.--Lat 33°06'18", long 92°02'07", in sec.33, T.18 S., R.9W., Ashley County, Hydrologic Unit 08040202, 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 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	TOTAL ARSENIC (AS) (UG/L) (01002)
OCT								
12...	290	1450	57	.24	--	--	.51	29
NOV								
09...	340	1300	80	<.10	--	--	.30	--
JAN								
12...	310	1330	63	--	--	--	.70	<3
APR								
04...	290	1080	85	<.10	<.10	.29	.50	<3
MAY								
03...	290	1050	51	--	.04	1.0	<.01	--
JUN								
06...	390	1340	53	--	--	--	.02	--
JUL								
06...	370	1240	52	--	--	--	--	--
AUG								
03...	390	1370	57	--	--	--	.42	--
31...	310	1240	58	<.05	.05	.48	.38	--

DATE	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)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT								
12...	<10	10	40	1100	90	1700	5.6	60
NOV								
09...	--	--	<10	2300	80	1700	--	60
JAN								
12...	<10	10	40	1100	70	1300	--	80
APR								
04...	<10	--	20	1400	200	1200	--	170
MAY								
03...	--	--	--	1100	50	860	--	40
JUN								
06...	--	--	<10	1400	10	1700	--	90
JUL								
06...	<10	20	10	1700	70	1800	--	160
AUG								
03...	--	--	<10	470	310	1600	--	--
31...	--	--	--	--	--	--	--	--

07364088 COFFEE CREEK NEAR CROSSETT, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT											
12...	9827	9827	2000	7.8	26.0	1600	--	62	3700000	140	--
NOV											
09...	9827	9827	1820	7.7	16.0	600	.0	88	2600000	--	--
JAN											
12...	9827	9827	1660	7.8	9.0	500	.1	<64	1200000	--	200
FEB											
28...	9827	9827	--	--	--	--	--	--	5400000	1600	--
APR											
04...	9827	9827	1550	7.6	20.0	1000	.0	110	--	--	180
MAY											
03...	9827	9827	1480	7.6	28.0	--	.0	41	7300000	1000	--
JUN											
06...	9827	9827	1810	7.7	34.0	1000	.0	49	<100000	--	--
JUL											
06...	9827	9827	1780	7.4	35.0	1100	.0	42	20000	--	--
AUG											
03...	9827	9827	1910	7.4	34.0	--	.0	37	290000	--	--
31...	9827	9827	1610	7.5	34.0	--	.0	--	140000	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
12...	--	--	190	--	--	360	14	360	--	295	160
NOV											
09...	--	--	--	--	--	--	--	--	--	--	180
JAN											
12...	0	--	64	--	10	320	11	320	0	262	200
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
04...	--	60	--	5.5	--	270	12	--	--	--	120
MAY											
03...	--	--	--	--	--	--	--	--	--	--	140
JUN											
06...	--	--	--	--	--	--	--	--	--	--	18
JUL											
06...	--	67	--	7.0	--	--	--	--	--	--	--
AUG											
03...	--	--	--	--	--	--	--	--	--	--	210
31...	--	--	--	--	--	--	--	--	--	--	15

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, Hydrologic Unit 08040205, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
NOV												
09...	9827	9827	7.0	85	7.0	16.0	60	6.7	2.2	500	--	--
DEC												
09...	9827	9827	46	106	7.0	5.0	55	7.9	2.4	1100	--	--
JAN												
12...	9827	9827	69	101	7.0	2.0	50	7.7	3.4	880	--	24
31...	9827	9827	43	94	6.8	2.0	80	11.5	2.7	--	--	--
31...	9827	9827	--	--	--	--	--	--	--	110	<5	--
FEB												
28...	9827	9827	36	86	6.9	12.0	50	7.3	2.1	40	15	--
APR												
04...	9827	9827	537	47	6.5	15.0	200	6.7	3.7	--	--	17
MAY												
03...	9827	9827	33	--	--	--	--	--	--	9600	10000	--
JUN												
06...	9827	9827	.50	111	7.5	28.0	100	4.6	3.9	660	--	--
06...	9827	9827	--	--	--	--	--	--	--	--	--	--
JUL												
06...	9827	9827	--	144	7.5	30.0	60	4.4	4.1	720	--	--
AUG												
03...	9827	9827	48	99	7.0	27.0	70	3.7	2.6	940	--	--
31...	9827	9827	--	109	7.5	28.0	45	4.3	2.3	660	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
NOV											
09...	--	--	--	--	--	--	--	--	--	--	7.0
DEC											
09...	--	--	--	--	--	--	--	--	--	--	18
JAN											
12...	0	--	5.0	--	3.0	13	4.5	43	0	35	11
31...	--	--	--	--	--	--	--	--	--	--	19
31...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	10
APR											
04...	--	.3	--	1.4	--	3.4	3.7	--	--	--	5.0
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	13
06...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	--	6.0	--	3.0	--	--	--	--	--	--	--
AUG											
03...	--	--	--	--	--	--	--	--	--	--	8.0
31...	--	--	--	--	--	--	--	--	--	--	6.0

07364115 BAYOU BARTHOLOMEW NEAR LADD, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
NOV												
09...	7.0	94	29	.20	--	--	.20	--	--	--	<10	2200
DEC												
09...	9.0	109	1	.18	--	--	.22	--	--	--	30	1900
JAN												
12...	9.5	100	24	.38	--	--	.20	<3	<10	<3	30	2600
31...	10	116	11	.22	--	--	.11	--	--	--	20	2000
FEB												
28...	7.0	98	27	<.10	--	--	.20	--	--	--	<10	2500
APR												
04...	4.5	127	133	.27	<.10	.22	.31	<3	<10	--	20	5600
MAY												
03...	--	--	--	--	--	--	--	--	--	<3	--	15100
JUN												
06...	8.0	114	57	--	.01	.17	.39	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	<10	1700
JUL												
06...	12	108	29	--	.01	.12	--	--	<10	<10	<10	2200
AUG												
03...	7.0	89	36	.12	.02	--	.28	--	--	--	--	--
31...	7.0	99	20	<.05	<.05	<.05	.18	--	--	--	--	--

DATE	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)
NOV											
09...	--	110	50	--	--	--	--	--	--	--	--
DEC											
09...	50	160	<10	--	--	--	--	--	--	--	--
JAN											
12...	20	160	20	--	--	--	--	--	--	--	--
31...	--	70	20	--	--	--	--	--	--	--	--
FEB											
28...	40	210	30	--	--	--	--	--	--	--	--
APR											
04...	70	330	70	--	--	--	--	--	--	--	--
MAY											
03...	--	520	60	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	30	440	40	--	--	--	--	--	--	--	--
JUL											
06...	10	1100	390	.00	.00	.00	.00	.00	.00	.00	0
AUG											
03...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08050001, 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.--36 years (1939-42, 1946-77), 671 ft^3/s (19.0 m^3/s), 15.39 in/yr (391 mm/yr), 486,100 acre-ft/yr (599 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 (7.769 m), present datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,390 ft^3/s (67.7 m^3/s) Apr. 10, gage height, 15.39 ft (4.691 m); minimum daily, 28 ft^3/s (0.79 m^3/s) June 10-13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	580	170	143	716	469	1100	498	39	46	216	99
2	45	692	186	132	658	435	1160	463	38	46	245	94
3	42	768	208	124	596	447	1220	436	39	48	259	93
4	39	808	223	115	533	709	1520	410	42	49	254	89
5	38	820	229	109	469	911	1730	387	42	51	233	85
6	38	813	233	105	413	1070	1930	366	40	52	209	82
7	39	791	248	104	364	1240	2120	343	37	53	192	80
8	40	751	262	102	320	1420	2290	314	33	51	184	74
9	39	702	265	113	288	1570	2380	286	30	47	180	73
10	37	637	273	144	266	1650	2390	255	28	44	167	70
11	34	571	290	172	250	1670	2330	224	28	47	154	66
12	33	503	306	190	245	1780	2220	196	28	41	141	62
13	32	432	322	216	244	1800	2070	167	28	41	128	58
14	31	375	332	336	264	1790	1970	142	29	44	114	55
15	31	312	331	559	309	1790	1850	121	29	51	104	53
16	31	256	322	706	373	1870	1670	106	30	58	93	52
17	31	211	318	826	455	1880	1500	95	31	84	85	53
18	31	176	322	953	493	1830	1360	88	31	109	91	53
19	30	150	332	1070	519	1740	1220	84	32	120	92	55
20	31	133	334	1150	533	1640	1110	84	36	118	90	55
21	31	122	323	1200	531	1530	1040	85	42	107	91	60
22	31	112	301	1190	517	1420	966	81	49	95	96	77
23	32	105	276	1160	505	1310	939	77	58	83	103	94
24	34	100	253	1130	501	1210	894	75	61	71	110	100
25	40	98	239	1080	500	1110	851	67	62	66	113	97
26	44	102	224	1030	506	1020	795	61	61	63	110	89
27	51	113	210	984	507	927	734	58	59	66	106	78
28	72	133	196	931	494	891	672	56	55	86	105	69
29	137	148	182	876	---	934	609	53	52	131	105	60
30	250	158	168	822	---	979	553	47	49	158	103	53
31	406	---	155	769	---	1030	---	42	---	180	102	---
TOTAL	1849	11672	8033	18541	12369	40072	43193	5767	1218	2306	4375	2178
MEAN	59.6	389	259	598	442	1293	1440	186	40.6	74.4	141	72.6
MAX	406	820	334	1200	716	1880	2390	498	62	180	259	100
MIN	30	98	155	102	244	435	553	42	28	41	85	52
CFSM	.10	.66	.44	1.01	.75	2.18	2.43	.31	.07	.13	.24	.12
IN.	.12	.73	.50	1.17	.78	2.52	2.71	.36	.08	.14	.27	.14
AC-FT	3670	23150	15930	36780	24530	79480	85670	11440	2420	4570	8680	4320

CAL YR 1976	TOTAL	149652	MEAN 409	MAX 2630	MIN 30	CFSM .69	IN 9.40	AC-FT	296800	
WTR YR 1977	TOTAL	151573	MEAN 415	MAX 2390	MIN 28	CFSM .70	IN 9.52	AC-FT	300600	

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, Hydrologic Unit 08040202, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
26...	9827	9827	47	3080	7.1	14.0	30	5.3	2.6	960	240	--
NOV												
29...	9827	9827	91	2320	7.2	5.0	30	10.9	2.9	2400	--	260
DEC												
21...	9827	9827	32	3170	7.4	5.0	15	8.1	4.9	270	--	--
JAN												
17...	9827	9827	153	1330	7.1	2.0	30	11.0	2.2	590	<7	--
FEB												
14...	9827	9827	361	--	--	--	--	--	--	280	120	--
MAR												
29...	9827	9827	825	226	6.9	20.0	70	8.1	1.9	--	--	--
APR												
18...	9827	9827	39	4200	7.3	23.0	30	4.8	4.8	--	--	--
MAY												
23...	9827	9827	--	198	6.9	26.0	70	7.4	2.4	100	100	--
JUN												
20...	9827	9827	19	4320	7.0	29.0	40	3.9	74	--	--	--
AUG												
17...	9827	9827	19	--	7.7	30.0	--	2.9	>2.9	680	--	--
SEP												
14...	9827	9827	9.0	5620	7.5	25.0	45	1.9	3.5	4000	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
26...	--	--	--	--	--	--	--	--	--	--	75
NOV											
29...	220	--	80	--	15	340	8.9	50	0	41	55
DEC											
21...	--	--	--	--	--	--	--	--	--	--	38
JAN											
17...	--	--	--	--	--	--	--	--	--	--	26
FEB											
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
29...	--	--	--	--	--	--	--	--	--	--	11
APR											
18...	--	--	--	--	--	--	--	--	--	--	36
MAY											
23...	--	7.0	--	2.0	--	22	2.1	--	--	--	15
JUN											
20...	--	--	--	--	--	--	--	--	--	--	220
AUG											
17...	--	120	--	25	--	660	13	--	--	--	54
SEP											
14...	--	--	--	--	--	--	--	--	--	--	88

07364600 BAYOU DE LOUTRE NEAR EL DORADO, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
13...	--	--	--	--	--	--	--	--	--	--	--	--
26...	1100	1960	33	.93	--	--	.12	--	<10	--	<10	550
NOV												
29...	800	1360	27	.49	--	--	.15	<3	<10	<3	<10	830
DEC												
21...	1200	1930	1	.85	--	--	.35	--	--	--	<10	270
JAN												
17...	410	795	13	.27	--	--	.15	--	<10	--	20	600
MAR												
29...	65	152	49	.34	<.10	--	.10	--	--	--	<10	1900
APR												
18...	1300	2490	27	.91	.76	4.0	.55	--	<10	--	90	740
MAY												
23...	34	149	12	--	.02	.20	.01	--	<10	--	<10	2000
JUN												
20...	1300	2540	31	.53	.39	2.8	.48	--	--	--	--	1800
AUG												
17...	1300	--	25	.34	.15	4.6	--	--	40	--	<10	1800
SEP												
14...	1700	3380	14	--	--	--	.94	--	20	--	60	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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...	--	--	--	--	--	--	--	--	--	--	.00	<1
26...	10	810	--	<10	--	--	--	--	--	--	--	--
NOV												
29...	<10	760	1.2	60	--	--	--	--	--	--	--	--
DEC												
21...	10	540	--	30	.00	.00	.00	.00	.00	.00	.00	0
JAN												
17...	130	790	--	90	--	--	--	--	--	--	--	--
MAR												
29...	10	310	--	<10	--	--	--	--	--	--	--	--
APR												
18...	--	1900	--	90	--	--	--	--	--	--	--	--
MAY												
23...	<10	--	--	<10	--	--	--	--	--	--	--	--
JUN												
20...	30	2700	--	90	--	--	--	--	--	--	--	--
AUG												
17...	30	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	10	440	--	30	--	--	--	--	--	--	--	--

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, Hydrologic Unit 08040206, 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.

AVERAGE DISCHARGE.--21 years, 178 ft^3/s (5.04 m^3/s), 13.43 in/yr (341 mm/yr), 129,000 acre-ft/yr (159 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, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage singe at least 1880, that of June 8, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) Mar. 30, gage height, 9.89 ft (3.014 m), no peak above base of 1,400 ft^3/s (40 m^3/s); no flow Sept. 12-18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	32	29	17	70	59	586	15	3.3	2.8	22	1.0
2	8.0	27	24	16	70	51	395	22	2.3	1.2	21	.72
3	7.3	21	19	16	105	79	252	39	1.7	.94	17	.50
4	5.6	15	16	17	150	314	353	57	1.5	.76	9.2	.30
5	4.6	9.8	14	20	205	441	444	44	1.4	.71	5.7	.20
6	4.8	7.3	15	24	230	558	530	30	1.5	.73	20	.10
7	4.5	6.2	36	31	180	558	519	21	1.1	.58	21	.10
8	5.1	5.2	88	37	145	448	411	37	.92	.44	9.8	.10
9	5.2	5.7	87	52	120	302	213	295	.97	.40	5.2	.10
10	4.3	5.4	52	130	100	172	119	374	.86	.35	3.6	.10
11	3.4	6.2	38	158	100	130	88	331	2.2	.27	3.3	.10
12	3.0	9.8	39	103	205	182	70	154	.87	.31	2.2	.00
13	5.0	15	70	69	400	207	57	56	.51	.52	1.4	.00
14	2.7	19	82	172	630	231	48	33	.42	.59	.66	.00
15	2.4	22	59	267	540	180	41	23	1.2	.41	.71	.00
16	2.6	20	43	350	450	118	37	18	6.8	.30	.44	.00
17	3.2	19	34	230	271	88	33	14	10	.30	.27	.00
18	3.3	17	29	145	152	73	196	12	5.9	.26	.30	.00
19	2.5	15	25	110	111	64	307	9.6	8.3	.20	.23	.10
20	2.0	14	23	95	93	58	300	8.4	8.1	.20	.20	.10
21	3.6	15	20	75	78	52	215	7.3	5.7	.11	.24	2.0
22	4.5	18	19	70	66	46	156	6.7	4.5	.10	.40	2.6
23	5.0	21	18	65	66	40	114	6.3	4.5	.10	.27	1.4
24	6.0	22	17	95	85	36	76	5.9	4.1	.40	.10	.76
25	8.3	18	17	130	137	34	54	5.5	2.6	.47	.10	.30
26	17	16	19	130	134	38	42	4.1	9.4	.34	.10	.20
27	20	19	22	115	95	93	34	3.6	15	.37	.10	.20
28	17	40	23	100	72	344	26	3.5	9.4	2.7	.10	.20
29	13	45	22	75	---	532	20	3.5	5.8	6.5	.23	.20
30	15	35	20	75	---	957	16	3.0	4.5	15	1.2	3.9
31	28	---	18	70	---	871	---	3.4	---	28	1.4	---
TOTAL	224.6	540.6	1037	3059	5060	7356	5752	1645.8	125.35	66.36	148.45	15.28
MEAN	7.25	18.0	33.5	98.7	181	237	192	53.1	4.18	2.14	4.79	.51
MAX	28	45	88	350	630	957	586	374	15	28	22	3.9
MIN	2.0	5.2	14	16	66	34	16	3.0	.42	.10	.10	.00
CFSM	.04	.10	.19	.55	1.01	1.32	1.07	.30	.02	.01	.03	.003
IN.	.05	.11	.21	.63	1.05	1.52	1.19	.34	.03	.01	.03	.00
AC-FT	445	1070	2060	6070	10040	14590	11410	3260	249	132	294	30

CAL YR 1976 TOTAL 43666.13 MEAN 119 MAX 5080 MIN .20 CFSM .66 IN 9.02 AC-FT 86610
WTR YR 1977 TOTAL 25030.44 MEAN 68.6 MAX 957 MIN .00 CFSM .38 IN 5.17 AC-FT 49650

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, Hydrologic Unit 08050001, 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 1976 TO SEPTEMBER 1977

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)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
12...	9827	9827	58	485	8.0	20.0	20	7.1	.9	50	<20	220
NOV												
09...	9827	9827	.00	343	7.7	13.0	40	7.2	2.1	800	--	--
DEC												
09...	9827	9827	106	298	7.7	5.0	80	10.4	6.0	8000	--	--
JAN												
12...	9827	9827	86	151	7.4	3.0	120	12.1	5.9	9400	--	50
31...	9827	9827	65	187	7.4	4.0	130	10.9	3.9	250	20	--
FEB												
28...	9827	9827	58	292	8.0	13.0	100	8.5	>8.5	400	49	--
APR												
04...	9827	9827	1370	95	6.9	15.0	400	6.8	4.9	--	--	83
MAY												
03...	9827	9827	86	193	7.4	22.0	80	5.2	2.1	670	1100	--
JUN												
06...	9827	9827	.00	434	7.8	29.0	35	6.1	4.3	100	--	--
JUL												
06...	9827	9827	65	412	8.0	30.0	20	6.0	2.2	800	--	--
AUG												
03...	9827	9827	86	512	8.0	27.0	25	7.1	1.6	420	--	--
31...	9827	9827	86	594	8.2	30.0	10	6.4	1.4	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L) (00902)	TOTAL CALCIUM (CA) (MG/L) (00916)	DISSOLVED CALCIUM (CA) (MG/L) (00915)	TOTAL MAGNESIUM (MG) (MG/L) (00927)	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)
OCT											
12...	81	--	48	--	24	39	5.1	170	--	139	11
NOV											
09...	--	--	--	--	--	--	--	--	--	--	24
DEC											
09...	--	--	--	--	--	--	--	--	--	--	29
JAN											
12...	0	--	13	--	4.6	11	11	82	0	67	8.0
31...	--	--	--	--	--	--	--	--	--	--	15
FEB											
28...	--	--	--	--	--	--	--	--	--	--	13
APR											
04...	--	.3	--	6.0	--	8.3	16	--	--	--	7.0
MAY											
03...	--	--	--	--	--	--	--	--	--	--	10
JUN											
06...	--	--	--	--	--	--	--	--	--	--	21
JUL											
06...	--	31	--	11	--	--	--	--	--	--	--
AUG											
03...	--	--	--	--	--	--	--	--	--	--	9.0
31...	--	--	--	--	--	--	--	--	--	--	8.0

07367666 BIG BAYOU NEAR JEROME, AR--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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 NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)	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)
OCT												
12...	69	325	9	<.10	--	--	.11	<3	<10	<3	20	600
NOV												
09...	50	239	25	.62	--	--	.33	--	--	--	10	1800
DEC												
09...	33	245	65	.90	--	--	.44	--	--	--	<10	4400
JAN												
12...	15	260	156	1.0	--	--	.63	<3	<10	<3	50	12200
31...	19	209	25	.79	--	--	.31	--	--	--	60	4200
FEB												
28...	24	239	91	<.10	--	--	.57	--	--	--	<10	6200
APR												
04...	8.5	313	1810	1.9	<.10	.35	.91	<3	<10	--	30	31200
MAY												
03...	24	230	70	.45	.07	.49	.34	--	--	<3	--	8700
JUN												
06...	69	309	18	--	.20	.81	.07	--	--	--	--	--
JUL												
06...	49	254	39	--	.01	.12	--	--	<10	10	<10	1700
AUG												
03...	58	331	26	.17	.03	--	.10	--	--	--	<10	440
31...	76	389	31	<.05	<.05	.07	.26	--	--	--	--	--

DATE	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL MERCURY (HG) (UG/L) (71900)	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												
12...	40	78	<.5	<10	.00	.00	.00	.01	.00	.00	.00	0
NOV												
09...	30	320	--	20	--	--	--	--	--	--	--	--
DEC												
09...	40	170	--	50	--	--	--	--	--	--	--	--
JAN												
12...	50	210	--	70	--	--	--	--	--	--	--	--
31...	60	150	--	50	--	--	--	--	--	--	--	--
FEB												
28...	30	290	--	50	--	--	--	--	--	--	--	--
APR												
04...	50	860	--	220	--	--	--	--	--	--	--	--
MAY												
03...	50	190	--	40	--	--	--	--	--	--	--	--
JUN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	<10	300	--	30	.00	.00	.00	.00	.00	.00	.00	0
AUG												
03...	80	96	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--

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	1963-77	10-25-76	8.85	80
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	1962-77	2- 3-77	7.93	136
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	1960-77	3- 4-77	7.87	215
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	1963-77	9-25-77	3.54	27
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	1963-77	3- 3-77	7.66	35
		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	1961-77	3-28-77	8.07	275
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	1960-77	9-29-77	6.01	235
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	1960-77	8- 1-77	6.35	162
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	1963-77	3-28-77	12.36	2,580
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‡ 1971-77	3-28-77	17.29	13,400
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, 1963-77	8-17-77	6.38	670
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	1961-77	4-30-77	8.66	525

‡ Operated as a continuous-record gaging station.

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 miles (8.5 km) northwest of Berryville.	527	1939-75‡ 1976-77	3-27-77	21.90	19,200
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	1962-77	8-12-77	9.82	1,250
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	1962-77	3-28-77	7.70	240
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	1961-77	9-29-77	7.15	575
07055650	S ith 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	1963-77	3-28-77	a5.87	970
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.	b6.15	1962-77	3-28-77	9.79	700
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	1961-77	3-28-77	9.12	135
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	1961-77	3-28-77	5.42	245
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	1961-77	3-28-77	7.35	930
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	1963-77	3-28-77	7.03	132
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	1962-77	3-28-77	11.61	1,850
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	1961-77	3-28-77	6.82	139
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‡ 1971-77	3-28-77	25.40	42,600

‡ Operated as a continuous-record gaging station.
a Dowstream gage.
b 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	Annual maximum Gage height (feet)	Annual maximum 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‡ 1971-77	4- 1-77	24.21	53,800
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	1961-77	3-28-77 12- 6-75b	11.68 7.78	520 133
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, 1963-77	3-28-77	7.44	1,100
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	1961-77	3-28-77	c12.40	1,160
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	1961-77	3-28-77	c10.90	880
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	1963-77	3-28-77 b12- 6-75	13.68 c13.35	3,700 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	1961-77	3-28-77	8.69	510
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	1962-77	6-27-77	3.78	210
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	1961-77	3-28-77 4-19-76	9.44 8.97	145 b117
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	1961-77	3-28-77	7.62	460
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	1964-77	3-28-77	9.71	247
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	1964-77	3-28-77	7.33	78
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	1961-77	3-28-77	5.71	185

‡ Operated as a continuous-record gaging station.

b Regional

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^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	1961-77	7-10-77	a10.37	1,040
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	1961-77	6-27-77	c9.70	825
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	1962-77	9-25-77	15.27	2,700
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	1962-77	3-28-77	5.94	163
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	1963-77	9-25-77	7.65	298
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.	b.48	1963-77	3-28-77	6.11	75
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	1961-77	6-27-77	3.94	325
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	1962-77	10-25-76	c9.10	330
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	1961-77	9-14-77	9.18	450
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	1962-77	3- 3-77	c13.50	1,230
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	1961-77	3- 3-77	8.81	170
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	1963-77	3- 3-77	4.68	54
		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	1961-77	9-29-77	5.64	235
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, 1963-77	9-29-77	8.04	3,350

a Downstream gage.
b Revised.
c From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^2)	Period of record	Annual 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‡ 1977	9-29-77	13.26	9,090
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	1959-77	9-29-77	11.57	188
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	1963-77	3-28-77	5.66	880
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	1963-77	3-28-77	c7.60	4,700
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‡ 1971-77	3-27-77	9.94	7,180
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	1962-77	3-27-77	7.84	1,460
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	1962-77	3-27-77	5.79	14
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‡ 1971-77	3-27-77	13.20	14,400
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	1961-77	7- 2-77	6.48	152
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‡ 1971-77	9-29-77	10.96	6,780
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.	b.20	1964-77	9-29-77	5.01	72
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.	b.19	1962-77	9-29-77	4.92	78
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‡ 1971-77	3-28-77	21.85	43,900
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	1961-77	3-28-77	10.05	3,060

‡ Operated as a continuous-record gaging station.
b Revised.
c From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^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	1961-77	3-28-77	5.29	200
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‡ 1976-77	3-27-77	17.20	9,700
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	1961-77	3-28-77	7.09	410
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	1967-77	3-28-77	6.13	31
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	1961-77	9-25-77	8.13	115
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	1960-77	3-28-77	7.39	605
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	1963-77	3-28-77	5.67	265
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	1962-77	9-28-77	7.55	255
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	1963-77	10-25-76	10.59	2,270
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	1963-77	10-25-76	10.51	350
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, Ar.	2.38	1961-77	9-14-77	10.41	525
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	1961-77	9-14-77	9.04	1,080
		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.	b15.9	1963-77	3-28-77	10.05	3,300
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.	b6.41	1961-77	3-27-77	7.87	2,250

‡ Operated as a continuous-record gaging station.
b Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	Drainage area (mi^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.	b10.7	1962-77	3- 3-77	11.51	1,750
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	1963-77	3- 3-77	4.89	140
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 birdge on U.S. Highway 70, 1.4 miles (2.3 km) southwest of Dierks.	b9.46	1961, 1963-77	3- 3-77	8.12	2,500
07341700	Caney Creek near Hope, Ar.	Lat 33°41'33", 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	1963-77	3- 3-77	10.39	1,400
07344320	Mill Creek tributary near Fouke, Ar.	Lat 33°17'52", 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.	b1.44	1961-77	3-28-77	8.07	225
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.	b.14	1961-77	3-28-77	6.24	10
07348630	Barlow Branch tributary near McNeil, Ar.	Lat 33°18'44", 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	1961-77	3-28-77	5.45	12
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‡ 1971-77	3-31-77	10.35	2,360
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	1961-77	3-28-77	3.86	224
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	1964-77	3-28-77	7.59	48
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‡ 1971-77	3-28-77	9.70	6,160
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	1961-77	10-25-76	9.28	115
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 miles (0.5 km) southeast of Mountain Valley.	3.82	1961-77	3- 3-77	10.49	600
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.	b2.91	1962-77	3- 3-77	6.93	335
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	1962-77	3- 4-77	8.75	650
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 tributary near Dalark.	.40	1961-77	3-28-77	4.94	102

‡ Operated as a continuous-record gaging station.
b 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)
		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	1963-77	3- 3-77	3.60	43
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	1963-77	3-28-77	22.08	4,150
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‡ 1971-77	4- 4-77	14.10	5,280
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	1961-77	3-28-77	8.59	165
07361780	Bradshaw Creek near Hollywood, Ar.	Lat 34°06'02", long 93°12'24" 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	1962-77	3-28-77	10.19	360
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	1961-77	3-28-77	7.46	125
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	1962-77	1-14-77	6.54	430
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	1962-77	3-28-77	8.28	268
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	1962-77	3- 3-77	4.44	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, 1963-77	3- 3-77	12.10	185
07363430	East Fork Derieusseaux 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	1961-77	3-28-77	6.73	33
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	1964-77	4- 3-77	6.01	53
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	1963-77	3- 4-77	3.81	12
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.	d6.0	1963-77	3- 3-77	9.72	87

‡ Operated as a continuous-record gaging station.
d 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	1961-77	3- 4-77	4.32	83
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	1962-77	3-27-77	8.57	1,150
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	1963-77	3-27-77	9.60	890
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	1962-77	4- 4-77	8.30	365
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.	d.1	1961-77	7-10-77	7.30	50
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‡ 1972-77	3- 5-77	4.98	446
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.	d.6	1961-77	4- 3-77	7.49	150
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.	d1.6	1961-77	3- 4-77	6.94	300
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.	d1.9	1963-77	3- 4-77	8.25	210

‡ Operated as a continuous-record gaging station.
d 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 1977

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.	(a)	1974-76	12- 6-76	14.0
					5-18-77	13.7
					8-11-77	*5.80
Tyronza River	St. Francis River	Lat 35°34'36", long 90°14'57", in NW¼ sec.16, T.11 N., R.8 E., Mississippi County, at bridge on State Highway 77, 2.2 mi (3.5 km) southwest of Dyess.	(a)	-	7-19-76	b67.3
					8-17-76	b195
					9-14-76	b50.0
					10-12-76	15.5
					11- 9-76	46.4
					12-13-76	84.1
					1-18-77	79.4
					2-14-77	70.0
					3-14-77	225
					4-11-77	28.5
					5-10-77	27.0
					6- 6-77	*13.9
Tyronza Bayou	Tyronza River	Lat 35°36'42", long 90°09'36", in SE¼ sec.31, T.12 N., R.9 E., Mississippi County, at bridge on county road, 3.3 mi (5.3 km) northeast of Dyess.	(a)	-	7-19-76	b0.35
					8-17-76	b*0.81
					9-14-76	bc*0.10
					10-13-76	0
					11- 9-76	0
					12-13-76	*0.64
					1-18-77	c*0.30
					2-14-77	1.54
					3-14-77	1.06
					4-11-77	c*0.10
					6- 6-77	*0.11
Tyronza River Ditch no. 40	Tyronza River	Lat 35°33'15", long 90°14'56", in SW¼ sec.21, T.11 N., R.8 E., Mississippi County, at bridge on State Highway 77, 2.7 mi (4.3 km) northwest of Chelford.	(a)	-	7-19-76	b18.4
					8-17-76	b26.1
					9-14-76	b9.14
					10-12-76	*1.90
					11- 9-76	7.06
					12-13-76	13.7
					2-14-77	57.7
					3-14-77	88.4
					4-11-77	8.73
					5-10-77	8.34
					6- 6-77	12.2
Tyronza River Ditch no. 6	Tyronza River	Lat 35°35'52", long 90°16'11", in NE¼ sec.7, T.11 N., R.8 E., Mississippi County, at bridge on county road, 3.6 mi (5.8 km) southeast of Lepanto.	(a)	-	7-19-76	b26.1
					8-17-76	b111
					9-14-76	b*10.6
					10-12-76	17.1
					11- 9-76	14.0
					12-13-76	73.4
					1-18-77	24.1
					2-14-77	81.4
					3-14-77	167
					4-11-77	16.5
					5-11-77	16.8
					6- 6-77	*10.2
Tyronza River	St. Francis River	Lat 35°32'25", long 90°17'26", in SE¼ sec.25, T.11 N., R.7 E., Poinsett County, at bridge on county road 1.9 mi (3.1 km) southeast of Spear Lake.	(a)	-	7-19-76	b90.5
					8-18-76	b146
					9-14-76	b55.4
					10-12-76	46.9
					11- 9-76	81.4
					12-14-76	132
					1-18-77	109
					2-14-77	273
					3-14-77	627
					4-11-77	82.8
					5-10-77	71.5
					6- 6-77	*38.6
		White River basin				
Kings River	White River	Lat 36°25'36", long 93°37'15" in SE¼ NE¼ sec.3, T.20 N., R.25 W., Carroll County, at bridge on State Highway 143, 5.3 mi (8.5 km) northwest of Berryville.	527	1976-77	3-30-77‡	2,950

* Base flow.
‡ Operated as a continuous-record gaging station.
a Not determined.
b Not previously published.
c Estimated.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		White River basin--Continued				
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.	207	1953-54, 1957-67b, 1974-76	12-15-76 3- 2-77	26.3 29.9
South Fork Spring River	Spring River	Lat 36°21'00", long 91°38'00", in NW¼ NW¼ 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.	(a)	1974-76	4-13-77	186
Village Creek	White River	Lat 36°05'26", long 90°56'19", in SW¼ SW¼ sec.24, T.17 N., R.1 E., Lawrence County, at bridge on county road, 1.8 mi (2.9 km) northeast of Walnut Ridge.	35	1958-63d 1973-74	7-20-76 8-18-76 9-15-76 10-14-76 11-10-76 12-15-76 1-17-77 2-15-77 3-16-77 4-12-77 6- 8-77	b2.72 b19.4 b7.67 *0.65 0 4.12 0 8.54 35.4 0 c*0.15
Lick Pond Creek	Village Creek	Lat 35°53'38", 91°04'08", in W½ sec.34, T.15 N., R.1 W., Lawrence County, at bridge on State Highway 230, 0.8 mi (1.3 km) east of Alicia.	(a)	-	7-20-76 8-18-76 9-15-76 11-10-76 12-15-76 1-17-77 2-15-77 3-16-77 4-12-77 6- 7-77	b0 b35.0 b11.6 b0 0 0 20.2 122 0 4.01
Village Creek	White River	Lat 35°49'10", long 91°05'05", in NW¼ SW¼ sec.27, T.14 N., R.1 W., Jackson County, at bridge on county road, 2.4 mi (3.9 km) east of Swifton.	(a)	1973-74	7-20-76 8-18-76 9-15-76 10-13-76 11-10-76 12-14-76 1-17-77 2-15-77 3-15-77 4-12-77	b1.50 b56.2 b60.4 0 0 6.57 0 122 790 18.5
Maple Ditch	Village Creek	Lat 35°47'16", long 91°07'13", in SW¼ sec.5, T.13 N., R.1 W., Jackson County, at bridge on county road, 2.6 mi (4.2 km) southeast of Swifton.	(a)	-	7-20-76 8-18-76 9-16-76 10-13-76 11-10-76 12-14-76 1-17-77 2-15-77 3-15-77 4-12-77	b0 b0 b0 0 0 0 0 0 7.31 0
Swan Pond Ditch	Village Creek	Lat 35°42'46", long 91°11'08", in SE¼ sec.34, T.13 N., R.2 W., Jackson County, at bridge on county road, 1.5 mi (2.4 km) southeast of Tuckerman.	(a)	-	7-20-76 8-19-76 9-16-76 10-13-76 11-10-76 12-14-76 1-17-77 2-15-77 3-15-77 4-12-77	b0 b0 b0 0 0 0 0 0.64 32.0 0
Village Creek	White River	Lat 35°35'34", long 91°14'28", in NE¼ NW¼ sec.18, T.11 N., R.2 W., Jackson County, at bridge on State Highway 14, 1.0 mi (1.6 km) southeast of Newport.	277	1953, 1957-66d, 1973-74	7-20-76 8-19-76 9-16-76 10-13-76 11-10-76 12-14-76 1-17-77 2-15-77 3-15-77 4-12-77 5- 9-77 6- 7-77	b38.1 b41.9 b77.1 22.6 59.5 18.3 20.3 181 774 293 55.3 12.8

* Base flow.
a Not determined.
b Not previously published.
c Estimated.
d Operated as a low-flow partial-record station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		White River basin--Continued				
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.	(a)	1974-76	2-22-77 8-24-77 9-19-77	4.59 45.0 42.4
		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	1971-76	3- 8-77 5-31-77 8-24-77	38.7 24.0 45.0
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.	34.9	1971-76	12-13-76 3- 8-77 5-31-77 8-24-77	5.72 12.4 *4.05 13.8
Illinois River	Arkansas River	Lat 36°06' 6", 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.	167	1957-63d, 1974-76	12-14-76 3- 9-77 6- 1-77 8-25-77	17.7 28.4 *8.47 *6.42
Osage Creek	Illinois River	Lat 36°13'19", long 94°17'18", in SW¼ NE¼ 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.	130	1950-75‡	9-29-77	2,460
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 fron confluence with Little Flint Creek, and 3.0 mi (4.8 km) northwest of Siloam Springs.	34.0	1971-76	12-13-76 3- 8-77 5-31-77 8-24-77	16.9 11.2 9.31 *6.06
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, Okla., 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.	(a)	1971-76	12-13-76 3- 8-77 5-31-77 8-24-77	6.47 5.02 6.40 6.04
Cove Creek	Lee Creek	Lat 35°43'20", long 94°24'28", in SW¼ NW¼ sec.16, T.12 N., R.32 W., Crawford County, at bridge on U.S. Forest Service road, 4.5 mi (7.2 km) northwest of Lee Creek.	35.3	1951-70‡	12- 8-76	25.0
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.	81.4	1945-75‡ 1976	12- 8-76	52.3
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.	84.9	1974-76	12- 2-76 3- 4-77	7.20 291
Bayou Meto[e/]	Arkansas River	Lat 34°27'15", long 91°36'58", in SE¼ sec.11, T.3 S., R.6 W., at bridge on U.S. Highway 79, 5.5 mi (8.8 km) southwest of Stuttgart.	f574	1935-54‡ 1968, 1971-74	12-28-76	15.8
		Red River basin				
Days Creek[e/]	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.	(a)	1973-76	11-29-76 8- 8-77	22.4 11.6

* Base flow.
‡ Operated as a continuous-record gaging station.
a Not determined.
d Operated as a low-flow partial-record station.
e Operated as a stage station by Corps of Engineers.
f At high stages Bayou Meto and Crooked Creek ar interconnected and the combined area is 653 mi^2.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1977--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Red River basin--Continued				
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.	(a)	1974-76	2-16-77	1,310
Little Missouri River	Ouachita River	Lat 34°18'41", long 93°53'58", 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.	66.5	1958-63d, 1974-76	12- 1-76 4- 5-77 6-29-77 9-20-77	104 210 25.8 *14.7
Moro Creek	Ouachita River	Lat 33°32'38", long 92°19'00", 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.	374	1958-63d, 1974-76	3-15-77 6- 7-77	1,180 c*0.25
Hurricane Creek	Saline River	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.	(a)	1974-76	12-28-76 5-10-77 6- 9-77 7-27-77	4.13 50.6 *2.22 *2.92
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.	(a)	1968, 1974-76	12- 3-76 5-10-77 7-27-77	9.92 37.6 48.9
Bayou DeLoutre	Ouachita River	Lat 33°05'55", long 92°35'32", in SE¼ NW¼ sec.6, T.19 S., R.14 W., Union County, at bridge on county road, 8.5 mi (13.7 km) southeast of El-Dorado.	78.4	1959-64d 1971-75	10-14-76	20.8
Big Bayou	Boeuf River	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.	(a)	1974-75	3-15-77	20.0

* Base flow.
a Not determined.
c Estimated.
d Operated as a low-flow partial-record station.

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.--Part of the records furnished by Corps of Engineers.

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
OCT							
18...	810	1028	.0	--	--	--	--
18...	810	810	1.0	285	7.8	12.0	10
APR							
20...	810	--	--	--	--	--	--
20...	810	1028	.0	--	--	--	--
20...	810	810	2.0	180	7.7	16.0	0
SEP							
20...	810	1028	.0	--	--	--	--
20...	810	810	--	200	7.9	23.0	0

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT						
18...	--	--	13	--	--	--
18...	--	9.8	--	132	124	124
APR						
20...	24	--	--	--	--	--
20...	--	--	77	--	--	--
20...	--	8.8	--	84	80	78
SEP						
20...	--	--	73	--	--	--
20...	--	8.7	--	122	108	110

361531094040901 BEAVER LAKE AT ROGERS WATER INTAKE, NEAR LOWELL, AR
(LAT 36 15 31 LONG 094 04 09)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
APR												
19...	810	--	--	--	--	--	--	30	--	--	--	--
19...	810	1028	.0	--	--	--	--	--	--	--	0	--
19...	810	--	12	--	--	--	--	--	--	2.6	--	--
19...	810	810	12	140	8.6	17.0	110	--	7.8	--	--	40
19...	810	1028	48	--	--	--	--	--	--	2.0	--	--
19...	810	810	48	190	7.0	14.0	110	--	5.6	--	--	50
SEP												
21...	810	--	--	--	--	--	--	84	--	--	--	--
21...	810	1028	.0	--	--	--	--	--	--	--	<2	--
21...	810	1028	13	--	--	--	--	--	--	2.2	--	--
21...	810	810	13	200	6.6	24.5	0	--	7.8	--	--	74
21...	810	1028	52	--	--	--	--	--	--	2.1	--	--
21...	810	810	52	180	6.4	18.5	50	--	.8	--	--	76

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

361531094040901 BEAVER LAKE AT ROGERS WATER INTAKE, NEAR LOWELL, AR--CONTINUED
(LAT 36 15 31 LONG 094 04 09)

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)
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	1.7	--	7.6	2.7	.68	.08	.17	.25	.93	4.1	.04
19...	32	--	30	--	--	--	--	--	--	--	--	--
19...	--	1.6	--	8.5	2.9	.68	.02	.16	.18	.86	3.8	.04
19...	44	--	42	--	--	--	--	--	--	--	--	--
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	1.4	--	5.3	4.3	.05	.04	.28	.32	.37	1.6	.02
21...	60	--	60	--	--	--	--	--	--	--	--	--
21...	--	1.4	--	5.5	3.7	.06	.22	.00	.22	.28	1.2	.09
21...	58	--	64	--	--	--	--	--	--	--	--	--

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)
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	.02	680	1	<10	10	1000	<100	70	.1	<50	50
19...	--	--	--	--	--	--	--	--	--	--	--
19...	.03	850	1	<10	10	1400	<100	120	.0	<50	50
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.00	150	0	40	130	350	<100	50	.0	<50	190
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.04	460	3	10	<10	1900	<100	1400	.0	<50	110
21...	--	--	--	--	--	--	--	--	--	--	--

361656094043000 BEAVER LAKE AT MONTE NE, AR (LAT 36 16 56 LONG 094 04 30)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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							
20...	810	--	--	--	--	--	--
20...	810	1028	.0	--	--	--	--
20...	810	810	2.0	165	8.0	15.5	5
APR							
18...	810	--	--	--	--	--	--
18...	810	1028	.0	--	--	--	--
18...	810	810	1.0	190	7.3	20.0	85
SEP							
22...	810	1028	.0	--	--	--	--
22...	810	810	1.5	170	6.8	24.5	0

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT						
20...	36	--	--	--	--	--
20...	--	--	84	--	--	--
20...	--	9.3	--	94	80	84
APR						
18...	6.0	--	--	--	--	--
18...	--	--	88	--	--	--
18...	--	11.2	--	100	70	32
SEP						
22...	--	--	82	--	--	--
22...	--	8.6	--	76	60	60

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
20...	810	--	--	--	--	--	--	84	--	--	--	--
20...	810	1028	.0	--	--	--	--	--	--	--	0	--
20...	810	1028	19	--	--	--	--	--	--	4.2	--	--
20...	810	810	19	110	7.7	17.0	5	--	6.9	--	--	70
20...	810	1028	76	--	--	--	--	--	--	2.5	--	--
20...	810	810	76	130	7.3	15.5	40	--	2.3	--	--	76
APR												
19...	810	--	--	--	--	--	--	12	--	--	--	--
19...	810	1028	.0	--	--	--	--	--	--	--	<2	--
19...	810	1028	14	--	--	--	--	--	--	1.7	--	--
19...	810	810	14	150	7.2	17.0	180	--	8.1	--	--	44
19...	810	1028	56	--	--	--	--	--	--	1.6	--	--
19...	810	810	56	175	7.0	13.5	70	--	8.1	--	--	56
SEP												
20...	810	--	--	--	--	--	--	132	--	--	--	--
20...	810	1028	.0	--	--	--	--	--	--	--	0	--
20...	810	1028	20	--	--	--	--	--	--	1.6	--	--
20...	810	810	20	115	7.3	24.0	0	--	7.4	--	--	62
20...	810	1028	76	--	--	--	--	--	--	1.2	--	--
20...	810	810	76	165	6.0	11.0	0	--	.1	--	--	76

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												
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	1.4	--	9.9	2.7	.04	.02	.22	.24	.28	1.2	.02
20...	56	--	58	--	--	--	--	--	--	--	--	--
20...	--	1.4	--	10	2.9	.08	.45	.36	.81	.89	3.9	.06
20...	58	--	78	--	--	--	--	--	--	--	--	--
APR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	1.7	--	8.7	2.9	1.6	.03	.18	.21	1.8	8.0	.04
19...	32	--	30	--	--	--	--	--	--	--	--	--
19...	--	1.7	--	8.0	3.1	.66	.02	.04	.06	.72	3.2	.07
19...	48	--	46	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	1.1	--	7.1	4.4	.04	.02	.10	.12	.16	.71	.01
20...	54	--	50	--	--	--	--	--	--	--	--	--
20...	--	1.2	--	6.9	3.5	.32	.21	.39	.60	.92	4.1	.02
20...	65	--	68	--	--	--	--	--	--	--	--	--

DATE	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											
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	.00	130	2	0	200	100	300	170	.0	<50	200
20...	--	--	--	--	--	--	--	--	--	--	--
20...	.03	280	2	0	170	920	<100	1500	.0	<50	160
20...	--	--	--	--	--	--	--	--	--	--	--
APR											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	.04	1100	2	<10	20	1700	<100	90	.6	<50	70
19...	--	--	--	--	--	--	--	--	--	--	--
19...	.07	620	0	<10	10	970	<100	80	.0	<50	50
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
20...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
20...	.01	60	0	10	50	60	<100	50	.0	<50	60
20...	--	--	--	--	--	--	--	--	--	--	--
20...	.01	200	0	10	100	350	<100	1100	.1	<50	110
20...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
OCT							
18...	810	--	--	--	--	--	--
18...	810	1028	.0	--	--	--	--
18...	810	810	3.0	160	7.4	16.5	10
APR							
18...	810	--	--	--	--	--	--
18...	810	1028	.0	--	--	--	--
18...	810	810	5.0	235	7.0	19.5	80
SEP							
21...	810	--	--	--	--	--	--
21...	810	1028	.0	--	--	--	--
21...	810	810	2.5	125	7.2	24.0	0

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT						
18...	60	--	--	--	--	--
18...	--	--	0	--	--	--
18...	--	9.1	--	72	58	60
APR						
18...	12	--	--	--	--	--
18...	--	--	<3	--	--	--
18...	--	10.1	--	56	50	50
SEP						
21...	48	--	--	--	--	--
21...	--	--	812	--	--	--
21...	--	7.5	--	64	58	48

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
18...	810	--	--	--	--	--	--	48	--	--	--	--
18...	810	1028	.0	--	--	--	--	--	--	--	0	--
18...	810	1028	3.0	--	--	--	--	--	--	1.6	--	--
18...	810	810	3.0	130	7.8	15.5	8	--	8.9	--	--	70
APR												
18...	810	--	--	--	--	--	--	6.0	--	--	--	--
18...	810	1028	.0	--	--	--	--	--	--	--	811	--
18...	810	1028	1.0	--	--	--	--	--	--	5.7	--	--
18...	810	810	1.0	140	8.7	18.5	50	--	9.7	--	--	62
SEP												
21...	810	--	--	--	--	--	--	48	--	--	--	--
21...	810	1028	.0	--	--	--	--	--	--	--	83	--
21...	810	1028	3.0	--	--	--	--	--	--	2.6	--	--
21...	810	810	3.0	180	6.9	24.0	0	--	7.5	--	--	60

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												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	1.3	--	11	2.9	.04	.33	.60	.93	.97	4.3	.18
18...	60	--	70	--	--	--	--	--	--	--	--	--
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	1.7	--	8.4	3.5	.43	.30	.51	.81	1.2	5.5	.02
18...	50	--	52	--	--	--	--	--	--	--	--	--
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	.0	--	5.8	3.3	.04	.02	.12	.14	.18	.80	.01
21...	52	--	56	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

362210094033800 BEAVER LAKE NEAR AVOCA, AR (LAT 36 22 10 LONG 094 03 38)--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 (MG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
OCT											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	.11	150	2	0	180	170	<100	60	.0	<50	190
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	.02	560	0	<10	10	670	<100	230	1.0	<50	50
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.00	150	0	10	100	190	<100	60	.0	<50	150
21...	--	--	--	--	--	--	--	--	--	--	--

364017093071000 BULL SHOALS LAKE AT FORSYTH, MO (LAT 36 40 17 LONG 093 07 10)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)	DIS-SOLVED OXYGEN (MG/L) (00300)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)
NOV												
01...	810	1028	.0	--	--	--	--	--	--	<3	--	--
01...	810	1028	2.0	--	--	--	--	--	1.2	--	--	--
01...	810	810	2.0	195	7.5	12.0	0	8.2	--	--	108	84
MAY												
03...	810	1028	.0	--	--	--	--	--	--	18	--	--
03...	810	1028	1.0	--	--	--	--	--	3.2	--	--	--
03...	810	810	1.0	270	7.5	18.0	5	8.0	--	--	140	78
AUG												
28...	810	1028	.0	--	--	--	--	--	--	83	--	--
28...	810	1028	1.0	--	--	--	--	--	1.2	--	--	--
28...	810	810	1.0	225	8.1	20.0	0	8.1	--	--	120	80

DATE	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)
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	1.6	--	6.2	3.4	.25	.02	.49	.51	.76	3.4	.03
01...	--	98	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	1.3	--	6.1	3.7	.19	.05	.30	.35	.54	2.4	.01
03...	--	130	--	--	--	--	--	--	--	--	--
AUG											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	1.5	--	6.5	4.8	.13	.01	.07	.08	.21	.93	.06
28...	--	110	--	--	--	--	--	--	--	--	--

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 (MG) (UG/L) (71900)	TOTAL NICKEL (NI) (UG/L) (01067)	TOTAL ZINC (ZN) (UG/L) (01092)
NOV											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	.00	130	0	0	230	100	<100	150	.0	<50	240
01...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	.01	120	0	10	<10	120	<100	100	.0	<50	40
03...	--	--	--	--	--	--	--	--	--	--	--
AUG											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	.06	90	0	0	140	80	<100	100	.0	<50	110
28...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

363005093032600 BULL SHOALS LAKE ON FOX CREEK NEAR MO-AR STATE LINE
(LAT 36 30 05 LONG 093 03 26)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
NOV							
02...	810	--	--	--	--	--	--
02...	810	1028	.0	--	--	--	--
02...	810	810	3.5	245	7.2	11.5	0
MAY							
03...	810	--	--	--	--	--	--
03...	810	1028	.0	--	--	--	--
03...	810	810	4.0	300	7.7	20.0	5
AUG							
28...	810	--	--	--	--	--	--
28...	810	1028	.0	--	--	--	--
28...	810	810	2.0	200	8.0	27.0	0

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV						
02...	60	--	--	--	--	--
02...	--	--	<3	--	--	--
02...	--	9.9	--	124	82	112
MAY						
03...	66	--	--	--	--	--
03...	--	--	85	--	--	--
03...	--	11.1	--	186	64	182
AUG						
28...	36	--	--	--	--	--
28...	--	--	823	--	--	--
28...	--	6.7	--	142	76	134

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
NOV												
02...	810	--	--	--	--	--	--	144	--	--	--	--
02...	810	1028	.0	--	--	--	--	--	--	--	0	--
02...	810	1028	26	--	--	--	--	--	--	.8	--	--
02...	810	810	26	240	7.6	14.5	0	--	6.5	--	--	125
02...	810	1028	114	--	--	--	--	--	--	2.4	--	--
02...	810	810	114	255	7.2	14.5	0	--	1.3	--	--	150
MAY												
04...	810	--	--	--	--	--	--	216	--	--	--	--
04...	810	1028	.0	--	--	--	--	--	--	--	0	--
04...	810	1028	26	--	--	--	--	--	--	2.3	--	--
04...	810	810	26	240	7.5	18.0	8	--	8.4	--	--	120
04...	810	1028	103	--	--	--	--	--	--	1.2	--	--
04...	810	810	103	250	7.1	10.0	8	--	8.3	--	--	114
AUG												
27...	810	--	--	--	--	--	--	192	--	--	--	--
27...	810	1028	.0	--	--	--	--	--	--	--	0	--
27...	810	1028	22	--	--	--	--	--	--	1.0	--	--
27...	810	810	22	170	8.2	28.0	5	--	7.8	--	--	128
27...	810	1028	90	--	--	--	--	--	--	1.6	--	--
27...	810	810	90	240	7.4	14.0	10	--	.1	--	--	120

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

362925092471500 BULL SHOALS LAKE NEAR BUCK CREEK, AR--CONTINUED
(LAT 36 29 25 LONG 092 47 15)

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)
NOV												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	1.5	--	7.2	4.1	.07	.03	.37	.40	.47	2.1	.01
02...	86	--	115	--	--	--	--	--	--	--	--	--
02...	--	1.7	--	6.2	3.7	.25	.44	.47	.91	1.2	5.1	.03
02...	88	--	140	--	--	--	--	--	--	--	--	--
MAY												
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	1.5	--	5.8	3.5	.13	.04	.06	.10	.23	1.0	.01
04...	70	--	110	--	--	--	--	--	--	--	--	--
04...	--	1.4	--	4.9	3.6	.19	.01	.14	.15	.34	1.5	.02
04...	74	--	108	--	--	--	--	--	--	--	--	--
AUG												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	1.6	--	5.5	3.6	.01	.00	.00	.00	.01	.04	.02
27...	76	--	126	--	--	--	--	--	--	--	--	--
27...	--	1.6	--	4.8	3.7	.25	.10	.35	.45	.70	3.1	.02
27...	90	--	122	--	--	--	--	--	--	--	--	--

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											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	.00	80	1	0	170	10	<100	50	.0	<50	200
02...	--	--	--	--	--	--	--	--	--	--	--
02...	.03	410	3	0	200	790	<100	2100	.1	<50	220
02...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
04...	.01	70	0	0	<10	90	<100	20	.0	<50	40
04...	--	--	--	--	--	--	--	--	--	--	--
04...	.02	100	0	0	20	100	<100	10	.0	<50	50
04...	--	--	--	--	--	--	--	--	--	--	--
AUG											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.01	80	1	0	40	40	<100	0	.0	<50	50
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.01	100	1	0	80	190	<100	430	.2	<50	80
27...	--	--	--	--	--	--	--	--	--	--	--

362530092420000 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, AR
(LAT 36 25 30 LONG 092 42 00)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)	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 .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)
AUG												
29...	810	--	--	--	--	--	--	132	--	--	--	--
29...	810	1028	.0	--	--	--	--	--	--	--	120	--
29...	810	1028	14	--	--	--	--	--	--	.9	--	--
29...	810	810	14	210	7.9	28.0	0	--	7.9	--	--	124
29...	810	1028	56	--	--	--	--	--	--	2.6	--	--
29...	810	810	56	240	7.6	21.0	15	--	1.4	--	--	134

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

362530092420000 BULL SHOALS LAKE BELOW BIG MUSIC CREEK NEAR MIDWAY, AR--CONTINUED
(LAT 36 25 30 LONG 092 42 00)

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)
AUG												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	1.3	--	5.5	3.6	.01	.00	.01	.01	.02	.09	.03
29...	74	--	107	--	--	--	--	--	--	--	--	--
29...	--	1.4	--	4.4	3.6	.01	.12	.08	.20	.21	.93	.17
29...	90	--	127	--	--	--	--	--	--	--	--	--

DATE	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)
AUG											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.03	70	1	0	80	0	<100	20	.0	<50	80
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.15	70	0	0	130	270	<100	210	.0	<50	130
29...	--	--	--	--	--	--	--	--	--	--	--

363440092384700 BULL SHOALS LAKE AT HWY 160 NEAR THEODOSIA, MO (LAT 36 34 40 LONG 092 38 47)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
NOV							
02...	810	--	--	--	--	--	--
02...	810	1028	.0	--	--	--	--
02...	810	810	5.0	290	7.1	13.5	0
02...	810	810	18	295	7.7	13.5	0
MAY							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	4.0	375	7.8	19.0	0
04...	810	810	16	340	7.8	19.0	20
AUG							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	3.0	240	7.8	28.0	10
29...	810	810	13	260	7.6	27.0	5

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV						
02...	78	--	--	--	--	--
02...	--	--	0	--	--	--
02...	--	9.7	--	150	88	140
02...	--	8.8	--	158	86	148
MAY						
04...	108	--	--	--	--	--
04...	--	--	10	--	--	--
04...	--	9.0	--	170	66	158
04...	--	7.3	--	182	60	170
AUG						
29...	48	--	--	--	--	--
29...	--	--	160	--	--	--
29...	--	7.3	--	144	58	126
29...	--	6.7	--	148	52	136

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

362830092374400 BULL SHOALS LAKE ABOVE PINE BRANCH AT INDIAN POINT, AR
(LAT 36 28 30 LONG 092 37 44)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
NOV							
02...	810	--	--	--	--	--	--
02...	810	1028	.0	--	--	--	--
02...	810	810	28	245	8.0	15.0	0
02...	810	810	114	310	7.0	14.0	0
MAY							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	26	255	7.9	17.0	8
04...	810	810	106	240	7.8	14.0	5
AUG							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	26	215	7.7	27.0	0
29...	810	810	104	250	7.5	13.0	0

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
NOV						
02...	156	--	--	--	--	--
02...	--	--	0	--	--	--
02...	--	6.0	--	128	86	118
02...	--	.0	--	160	104	155
MAY						
04...	288	--	--	--	--	--
04...	--	--	0	--	--	--
04...	--	10.1	--	120	70	122
04...	--	8.4	--	126	70	122
AUG						
29...	192	--	--	--	--	--
29...	--	--	8180	--	--	--
29...	--	7.5	--	124	76	106
29...	--	3.6	--	136	74	124

362300092365800 BULL SHOALS LAKE AT JIMMIE CREEK NEAR BULL SHOALS, AR
(LAT 36 23 00 LONG 092 36 58)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)
NOV							
02...	810	--	--	--	--	--	--
02...	810	1028	.0	--	--	--	--
02...	810	810	22	240	7.6	15.5	0
02...	810	810	90	240	7.8	15.0	0
MAY							
04...	810	--	--	--	--	--	--
04...	810	1028	.0	--	--	--	--
04...	810	810	24	260	7.6	16.5	0
04...	810	810	94	265	7.5	10.0	0
AUG							
27...	810	--	--	--	--	--	--
27...	810	1028	.0	--	--	--	--
27...	810	810	23	200	8.1	27.0	5
27...	810	810	92	260	7.8	13.5	2

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

362300092365800 BULL SHOALS LAKE AT JIMMIE CREEK NEAR BULL SHOALS, AR--CONTINUED
(LAT 36 23 00 LONG 0932 36 58)

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV						
02...	168	--	--	--	--	--
02...	--	--	0	--	--	--
02...	--	7.9	--	136	81	118
02...	--	7.7	--	126	72	116
MAY						
04...	252	--	--	--	--	--
04...	--	--	0	--	--	--
04...	--	9.9	--	122	64	116
04...	--	7.7	--	124	56	120
AUG						
27...	216	--	--	--	--	--
27...	--	--	0	--	--	--
27...	--	7.1	--	116	82	140
27...	--	2.2	--	130	88	146

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
NOV							
03...	810	--	--	--	--	--	--
03...	810	1028	.0	--	--	--	--
03...	810	810	25	245	6.9	15.0	0
03...	810	810	102	245	7.1	14.5	0
MAY							
02...	810	--	--	--	--	--	--
02...	810	1028	.0	--	--	--	--
02...	810	810	27	360	7.3	15.5	0
02...	810	810	107	245	7.5	9.5	2
AUG							
30...	810	--	--	--	--	--	--
30...	810	1028	.0	--	--	--	--
30...	810	810	27	215	7.4	26.5	0
30...	810	810	100	200	7.3	13.0	0

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
NOV						
03...	168	--	--	--	--	--
03...	--	--	0	--	--	--
03...	--	7.8	--	124	83	116
03...	--	8.1	--	134	78	114
MAY						
02...	216	--	--	--	--	--
02...	--	--	3	--	--	--
02...	--	9.5	--	120	64	74
02...	--	8.6	--	128	63	180
AUG						
30...	192	--	--	--	--	--
30...	--	--	0	--	--	--
30...	--	7.5	--	124	76	116
30...	--	2.0	--	138	80	122

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

07055610 TOWN BRANCH ABOVE YELLVILLE, AR (LAT 36 14 14 LONG 092 41 37)

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)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
APR , 1977										
21...	1028	1028	.98	507	8.2	16.0	9.2	95	1.0	--
AUG										
18...	1028	1028	E.10	386	8.0	25.0	5.9	73	3.2	B7600

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	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)
APR , 1977									
21...	B1600	--	270	53	33	3.2	3	.1	1.8
AUG									
18...	E5400	B1100	140	28	18	3.3	5	.1	3.2

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED SILICA (SIO2) (MG/L) (00955)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MANGANESE (MN) (UG/L) (01055)
APR , 1977									
21...	18	5.8	7.6	8	292	.05	.02	230	10
AUG									
18...	31	7.1	11	7	257	.42	.05	230	20

07055611 EAST PRONG BRANCH AT YELLVILLE, AR (LAT 36 14 34 LONG 092 40 33)

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)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)
APR , 1977										
21...	1028	1028	.09	502	8.3	17.5	10.0	108	.8	--
AUG										
18...	1028	1028	E.04	265	8.2	26.0	8.1	101	3.8	B10000

DATE	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	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)
APR , 1977									
21...	580	--	270	54	34	1.1	1	.0	1.1
AUG									
18...	E12000	B29000	130	31	12	.9	1	.0	3.3

DATE	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED SILICA (SIO2) (MG/L) (00955)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MANGANESE (MN) (UG/L) (01055)
APR , 1977									
21...	18	2.1	6.6	3	286	.03	.05	180	0
AUG									
18...	13	2.8	6.9	42	233	.44	.16	510	50

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

07055612 TOWN BRANCH AT YELLVILLE, AR (LAT 36 13 31 LONG 092 40 47)

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)
NOV , 1976							
10...	1028	1028	.08	556	7.8	9.0	10.8
APR , 1977							
21...	1028	1028	2.6	506	8.4	19.0	10.4
JUN							
28...	1028	1028	.12	475	7.4	28.0	7.0
AUG							
18...	1028	1028	.24	466	7.9	20.0	6.4

DATE	PERCENT SATURATION (00301)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL ORTHO PHOSPHORUS (P) (MG/L) (70507)
NOV , 1976							
10...	97	2.8	B1300	B10	B45	.04	.00
APR , 1977							
21...	116	1.2	--	2100	--	.07	.02
JUN							
28...	90	1.6	B14000	680	250	.08	.03
AUG							
18...	73	3.8	B10000	E12000	B29000	.70	.04

363512092171800 NORFORK LAKE NEAR TECUMSEH, MO (LAT 36 35 12 LONG 092 17 18)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)
OCT												
27...	810	1028	.0	--	--	--	--	--	--	<3	--	--
27...	810	1028	3.0	--	--	--	--	--	.8	--	--	--
27...	810	810	3.0	285	8.5	11.0	0	11.4	--	--	220	110
APR												
27...	810	1028	.0	--	--	--	--	--	--	85	--	--
27...	810	1028	2.5	--	--	--	--	--	3.8	--	--	--
27...	810	810	2.5	350	7.2	17.0	15	11.9	--	--	190	100
AUG												
14...	810	810	2.5	300	7.3	24.0	10	9.3	--	--	214	110
24...	810	1028	.0	--	--	--	--	--	--	32	--	--
24...	810	1028	2.5	--	--	--	--	--	1.2	--	--	--

DATE	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											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	1.2	--	5.2	2.0	.38	.04	.16	.20	.58	2.6	.01
27...	--	220	--	--	--	--	--	--	--	--	--
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	1.2	--	5.1	3.1	.56	.00	.00	.00	.56	2.5	.02
27...	--	184	--	--	--	--	--	--	--	--	--
AUG											
14...	--	232	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	1.1	--	3.6	2.3	.27	.01	.00	.01	.28	1.2	.03

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

363512092171800 NORFORK LAKE NEAR TECUMSEH, MO--CONTINUED
(LAT 36 35 12 LONG 092 17 18)

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											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.00	50	1	0	180	0	<100	0	.1	<50	170
27...	--	--	--	--	--	--	--	--	--	--	--
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.02	70	0	0	<10	80	100	30	1.4	<50	120
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	.01	110	0	10	70	40	<100	20	.0	<50	80

363254092165500 NORFORK LAKE NEAR UDALL, MO (LAT 36 32 54 LONG 092 16 55)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	4.0	320	7.6	9.5	10
APR							
29...	810	1028	.0	--	--	--	--
29...	810	810	3.0	375	7.4	19.0	10
AUG							
25...	810	1028	.0	--	--	--	--
25...	810	810	2.5	320	8.1	24.5	8

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT						
29...	84	--	--	--	--	--
29...	--	--	4	--	--	--
29...	--	11.1	--	236	118	230
APR						
29...	--	--	80	--	--	--
29...	--	7.9	--	218	60	214
AUG						
25...	--	--	819	--	--	--
25...	--	7.2	--	111	54	24

362407092191500 NORFORK LAKE ON PIGEON CREEK NEAR MOUNTAIN HOME, AR
(LAT 36 24 07 LONG 092 19 15)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	8.0	315	7.8	15.5	0
29...	810	810	32	320	7.9	15.5	10
APR							
30...	810	--	--	--	--	--	--
30...	810	1028	.0	--	--	--	--
30...	810	810	9.0	235	7.5	18.5	48
30...	810	810	37	335	7.7	14.5	30
AUG							
25...	810	--	--	--	--	--	--
25...	810	1028	.0	--	--	--	--
25...	810	810	9.0	255	8.0	29.0	1
25...	810	810	35	305	7.8	26.0	10

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

362407092191500 NORFORK LAKE ON PIGEON CREEK NEAR MOUNTAIN HOME, AR--CONTINUED
(LAT 36 24 07 LONG 092 19 15)

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT						
29...	84	--	--	--	--	--
29...	--	--	0	--	--	--
29...	--	9.0	--	187	79	174
29...	--	9.1	--	184	84	174
APR						
30...	84	--	--	--	--	--
30...	--	--	0	--	--	--
30...	--	9.1	--	160	80	152
30...	--	7.7	--	72	82	156
AUG						
25...	108	--	--	--	--	--
25...	--	--	0	--	--	--
25...	--	8.2	--	80	37	150
25...	--	1.4	--	90	43	95

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
30...	810	--	--	--	--	--	--	108	--	--	--	--
30...	810	1028	.0	--	--	--	--	--	--	--	1	--
30...	810	1028	20	316	--	--	--	--	--	.6	--	--
30...	810	810	20	315	6.8	15.5	0	--	7.7	--	--	181
30...	810	1028	80	322	--	--	--	--	--	.6	--	--
30...	810	810	80	320	7.5	15.5	5	--	6.8	--	--	184
APR												
30...	810	--	--	--	--	--	--	156	--	--	--	--
30...	810	1028	.0	--	--	--	--	--	--	--	0	--
30...	810	1028	22	--	--	--	--	--	--	1.6	--	--
30...	810	810	22	310	7.5	18.5	12	--	9.2	--	--	164
30...	810	1028	88	--	--	--	--	--	--	1.0	--	--
30...	810	810	88	360	7.4	11.0	80	--	8.3	--	--	183
AUG												
25...	810	--	--	--	--	--	--	264	--	--	--	--
25...	810	1028	.0	--	--	--	--	--	--	--	0	--
25...	810	1028	21	--	--	--	--	--	--	1.0	--	--
25...	810	810	21	275	7.8	28.5	10	--	7.4	--	--	84
25...	810	1028	85	--	--	--	--	--	--	1.8	--	--
25...	810	810	85	280	7.5	14.5	10	--	.1	--	--	99

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												
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	1.3	--	3.5	2.4	.04	.06	.01	.07	.11	.49	.02
30...	82	--	176	--	--	--	--	--	--	--	--	--
30...	--	1.3	--	4.4	2.3	.10	.19	.14	.33	.43	1.9	.02
30...	180	--	184	--	--	--	--	--	--	--	--	--
APR												
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	1.4	--	7.3	2.3	.29	.03	.15	.18	.47	2.1	.01
30...	80	--	156	--	--	--	--	--	--	--	--	--
30...	--	1.2	--	5.7	2.2	.22	.05	1.2	1.2	1.4	6.3	.02
30...	88	--	184	--	--	--	--	--	--	--	--	--
AUG												
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	1.5	--	4.1	3.8	.01	.00	.15	.15	.16	.71	.01
25...	36	--	170	--	--	--	--	--	--	--	--	--
25...	--	1.4	--	3.8	2.4	.08	.18	.34	.52	.60	2.7	.03
25...	48	--	196	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

362230092143700 NORFORK LAKE AT HENDERSON, AR (LAT 36 22 30 LONG 092 14 37)--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											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.02	120	0	0	260	70	100	40	.0	<50	360
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.00	230	1	0	270	220	<100	100	.0	<50	360
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.01	130	1	0	<10	80	<100	0	1.6	<50	30
30...	--	--	--	--	--	--	--	--	--	--	--
30...	.02	80	1	0	10	70	<100	20	.3	<50	50
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	.00	70	0	0	40	0	<100	0	.0	<50	50
25...	--	--	--	--	--	--	--	--	--	--	--
25...	.00	80	2	0	60	440	<100	950	.3	<50	90
25...	--	--	--	--	--	--	--	--	--	--	--

362007092170400 NORFORK LAKE ON FALL CREEK, WEST OF MOUNTAIN HOME, AR (LAT 36 20 07 LONG 092 17 04)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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							
30...	810	--	--	--	--	--	--
30...	810	1028	.0	--	--	--	--
30...	810	810	17	295	7.7	16.0	0
30...	810	810	68	315	7.9	16.5	2
MAY							
01...	810	--	--	--	--	--	--
01...	810	1028	.0	--	--	--	--
01...	810	810	4.0	325	7.5	19.5	15
01...	810	810	14	330	7.6	18.5	20
AUG							
26...	810	--	--	--	--	--	--
26...	810	1028	.0	--	--	--	--
26...	810	810	3.0	245	8.4	29.0	5
26...	810	810	13	280	7.8	28.5	1

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT						
30...	96	--	--	--	--	--
30...	--	--	0	--	--	--
30...	--	7.5	--	190	80	176
30...	--	7.7	--	178	80	174
MAY						
01...	120	--	--	--	--	--
01...	--	--	1	--	--	--
01...	--	9.2	--	174	84	170
01...	--	8.5	--	172	84	170
AUG						
26...	84	--	--	--	--	--
26...	--	--	2	--	--	--
26...	--	7.6	--	82	40	140
26...	--	7.0	--	80	39	180

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

361627092123000 NORFORK LAKE NEAR HAND, AR (LAT 36 16 27 LONG 092 12 30)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
OCT							
28...	810	--	--	--	--	--	--
28...	810	1028	.0	--	--	--	--
28...	810	810	25	270	7.4	16.5	0
28...	810	810	100	310	7.7	15.5	2
MAY							
01...	810	--	--	--	--	--	--
01...	810	1028	.0	--	--	--	--
01...	810	810	26	260	7.8	14.0	10
01...	810	810	102	370	7.7	8.5	10
AUG							
26...	810	--	--	--	--	--	--
26...	810	1028	.0	--	--	--	--
26...	810	810	25	260	8.1	28.0	9
26...	810	810	101	370	7.7	14.5	2

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT						
28...	156	--	--	--	--	--
28...	--	--	0	--	--	--
28...	--	8.3	--	170	76	166
28...	--	4.4	--	168	82	172
MAY						
01...	228	--	--	--	--	--
01...	--	--	0	--	--	--
01...	--	11.1	--	178	84	163
01...	--	9.2	--	178	86	180
AUG						
26...	240	--	--	--	--	--
26...	--	--	1	--	--	--
26...	--	7.5	--	80	37	162
26...	--	2.8	--	93	45	190

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
DEC												
08...	810	--	--	--	--	--	--	84	--	--	--	--
08...	810	1028	.0	--	--	--	--	--	--	--	0	--
08...	810	1028	7.0	--	--	--	--	--	--	1.4	--	--
08...	810	810	7.0	<50	6.4	8.0	0	--	10.2	--	--	34
08...	810	1028	28	53	--	--	--	--	--	1.6	--	--
08...	810	810	28	<50	6.6	8.0	5	--	9.9	--	--	36
MAR												
29...	810	--	--	--	--	--	--	7.2	--	--	--	--
29...	810	1028	.0	--	--	--	--	--	--	--	8860	--
29...	810	1028	9.0	--	--	--	--	--	--	2.0	--	--
29...	810	810	9.0	<50	6.1	15.0	270	--	9.9	--	--	24
29...	810	1028	34	--	--	--	--	--	--	2.5	--	--
29...	810	810	34	<50	6.3	14.5	260	--	8.6	--	--	16
JUL												
25...	810	--	--	--	--	--	--	72	--	--	--	--
25...	810	1028	.0	--	--	--	--	--	--	--	0	--
25...	810	1028	9.0	--	--	--	--	--	--	1.2	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

353715092111600 GREERS FERRY LAKE AT BRUSH CREEK, AR--CONTINUED
(LAT 35 37 15 LONG 092 11 16)

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)
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	1.0	--	2.5	1.0	.07	.00	.42	.42	.49	2.2	.02
08...	14	--	20	--	--	--	--	--	--	--	--	--
08...	--	.9	--	4.4	1.5	.06	.00	.00	.00	.06	.27	.02
08...	16	--	22	--	--	--	--	--	--	--	--	--
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	1.7	--	5.0	1.4	.13	.08	.34	.42	.55	2.4	.21
29...	14	--	12	--	--	--	--	--	--	--	--	--
29...	--	1.9	--	4.5	1.3	.13	.04	.36	.40	.53	2.3	.29
29...	14	--	14	--	--	--	--	--	--	--	--	--
JUL												
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	1.1	--	3.0	1.4	.36	.00	.26	.26	.62	2.7	.01
25...	16	--	18	--	--	--	--	--	--	--	--	--
25...	--	1.4	--	3.5	1.6	.01	.38	.23	.61	.62	2.7	.14
25...	30	--	44	--	--	--	--	--	--	--	--	--

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)
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	.01	90	1	0	80	150	<100	70	.4	<50	100
08...	--	--	--	--	--	--	--	--	--	--	--
08...	.02	100	1	0	80	190	100	80	.2	<50	80
08...	--	--	--	--	--	--	--	--	--	--	--
MAR											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.08	2100	3	0	<10	3800	<100	140	.1	<50	40
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.24	2500	7	0	10	3400	<100	140	.8	<50	40
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	.00	140	0	0	100	240	<100	140	.0	<50	130
25...	--	--	--	--	--	--	--	--	--	--	--
25...	.06	350	3	0	80	2900	<100	880	.0	<50	120
25...	--	--	--	--	--	--	--	--	--	--	--

353624092301400 GREERS FERRY LAKE ABOVE HILL CREEK, AR (LAT 35 36 24 LONG 092 30 14)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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							
08...	810	--	--	--	--	--	--
08...	810	1028	.0	--	--	--	--
08...	810	810	12	<50	6.5	8.5	10
08...	810	810	48	<50	6.4	8.5	0
MAR							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	16	<50	6.7	15.0	190
29...	810	810	64	<50	6.4	14.0	205
JUL							
25...	810	1028	.0	--	--	--	--
25...	810	--	--	--	--	--	--
25...	810	810	14	<50	6.7	30.0	0
25...	810	810	56	<50	6.6	21.0	40

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

353624092301400 GREERS FERRY LAKE ABOVE HILL CREEK, AR--CONTINUED
(LAT 35 36 24 LONG 092 30 14)

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
DEC						
08...	78	--	--	--	--	--
08...	--	--	0	--	--	--
08...	--	10.0	--	24	16	18
08...	--	9.8	--	24	16	20
MAR						
29...	7.2	--	--	--	--	--
29...	--	--	B980	--	--	--
29...	--	9.2	--	10	6	8
29...	--	8.7	--	14	8	12
JUL						
25...	--	--	25	--	--	--
25...	13	--	--	--	--	--
25...	--	7.0	--	14	10	16
25...	--	1.7	--	26	14	20

353506092253200 GREERS FERRY LAKE NEAR CLINTON, AR (LAT 35 35 06 LONG 092 25 32)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
DEC												
08...	810	1028	.0	--	--	--	--	--	--	--	B670	--
08...	810	--	--	--	--	--	--	18	--	--	--	--
08...	810	1028	4.0	51	--	--	--	--	--	2.1	--	--
08...	810	810	4.0	<50	6.8	4.5	20	--	12.0	--	--	24
MAR												
29...	810	--	--	--	--	--	--	14	--	--	--	--
29...	810	1028	.0	--	--	--	--	--	--	--	200	--
29...	810	1028	7.5	--	--	--	--	--	--	1.1	--	--
29...	810	810	7.5	<50	7.8	13.0	90	--	10.1	--	--	10
JUL												
25...	810	--	--	--	--	--	--	36	--	--	--	--
25...	810	1028	.0	--	--	--	--	--	--	--	0	--
25...	810	1028	--	--	--	--	--	--	--	1.6	--	--
25...	810	810	5.0	50	6.0	30.0	10	--	6.2	--	--	20

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)
DEC												
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	.9	--	5.6	4.1	.07	.07	.56	.63	.70	3.1	.06
08...	14	--	14	--	--	--	--	--	--	--	--	--
MAR												
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	.9	--	4.1	3.0	.10	.02	.22	.24	.34	1.5	.14
29...	6	--	6	--	--	--	--	--	--	--	--	--
JUL												
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	1.5	--	2.7	1.8	.12	.00	.39	.39	.51	2.3	.02
25...	14	--	20	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

353506092253200 GREERS FERRY LAKE NEAR CLINTON, AR--CONTINUED
(LAT 35 35 06 LONG 092 25 32)

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)
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	.04	580	2	10	80	1300	<100	90	.0	<50	90
08...	--	--	--	--	--	--	--	--	--	--	--
MAR											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
29...	.14	440	1	0	10	1200	<100	70	.1	<50	30
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	.00	150	1	0	120	290	<100	150	.0	<50	140
25...	--	--	--	--	--	--	--	--	--	--	--

353127092250400 GREERS FERRY LAKE NEAR CHOCTAW, AR (LAT 35 31 27 LONG 092 25 04)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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							
08...	810	--	--	--	--	--	--
08...	810	1028	.0	--	--	--	--
08...	810	810	3.0	<50	7.4	5.5	10
MAR							
29...	810	--	--	--	--	--	--
29...	810	1028	.0	--	--	--	--
29...	810	810	3.0	<50	7.7	15.0	110
29...	810	810	11	<50	7.7	13.5	70
JUL							
25...	810	--	--	--	--	--	--
25...	810	1028	.0	--	--	--	--
25...	810	810	2.0	<50	5.7	32.0	10
25...	810	810	8.0	<50	5.7	30.5	20

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
DEC						
08...	18	--	--	--	--	--
08...	--	--	828	--	--	--
08...	--	11.2	--	28	10	14
MAR						
29...	9.6	--	--	--	--	--
29...	--	--	300	--	--	--
29...	--	9.2	--	8	6	4
29...	--	9.4	--	8	6	12
JUL						
25...	60	--	--	--	--	--
25...	--	--	0	--	--	--
25...	--	7.5	--	16	8	10
25...	--	6.9	--	14	12	14

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

WHITE RIVER BASIN--CONTINUED

353012092053200 GREERS FERRY LAKE NEAR EDEN ISLE, AR (LAT 35 30 12 LONG 092 05 32)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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	12	<50	7.3	9.0	5
09...	810	810	48	<50	6.6	8.5	5
MAR							
30...	810	--	--	--	--	--	--
30...	810	1028	.0	--	--	--	--
30...	810	810	16	<50	7.9	10.5	3
30...	810	810	62	<50	7.5	10.0	10
JUL							
26...	810	--	--	--	--	--	--
26...	810	1028	.0	--	--	--	--
26...	810	810	14	<50	6.8	29.0	0
26...	810	810	55	<50	5.9	18.5	10

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
DEC						
09...	96	--	--	--	--	--
09...	--	--	0	--	--	--
09...	--	9.9	--	28	14	22
09...	--	10.1	--	26	12	20
MAR						
30...	66	--	--	--	--	--
30...	--	--	10	--	--	--
30...	--	11.4	--	16	10	14
30...	--	11.6	--	22	12	14
JUL						
26...	240	--	--	--	--	--
26...	--	--	0	--	--	--
26...	--	7.3	--	14	10	14
26...	--	5.0	--	10	10	16

ARKANSAS RIVER BASIN

07250580 VACHE GRASSE CREEK NEAR GREENWOOD, AR (LAT 35 20 06 LONG 094 13 07)

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)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)
NOV , 1976										
16...	1028	1028	.99	238	7.1	6.0	11.0	91	8860	8490
MAR , 1977										
10...	1028	1028	4.7	140	6.8	9.5	10.8	97	460	340
JUL										
13...	1028	1028	E.15	225	6.2	25.5	1.4	17	390	8180
SEP										
06...	1028	1028	.02	191	7.1	25.0	2.4	30	--	1600

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

07250580 VACHE GRASSE CREEK NEAR GREENWOOD, AR--CONTINUED
(LAT 35 20 06 LONG 094 13 07)

DATE	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)	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)
NOV , 1976										
16...	80	68	36	8.9	11	17	35	.9	1.4	38
MAR , 1977										
10...	32	42	27	6.2	6.5	11	36	.7	.9	19
JUL										
13...	150	75	2	12	11	19	34	1.0	4.7	89
SEP										
06...	6100	59	0	11	7.7	11	27	.6	5.0	78

DATE	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 SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS-SOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITRO-GEN (N) (MG/L) (00610)
NOV , 1976										
16...	0	31	4.8	62	12	147	.20	.39	.03	.00
MAR , 1977										
10...	0	16	4.8	--	6.1	82	.11	1.04	.03	.00
JUL										
13...	0	73	90	--	12	151	.21	.06	.02	1.3
SEP										
06...	0	64	9.9	--	6.5	100	.14	.01	.04	1.4

DATE	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)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MAN-GANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
NOV , 1976									
16...	.00	.00	.03	.13	.06	.06	--	--	1.6
MAR , 1977									
10...	.27	.27	.30	1.3	.02	.02	530	50	1.5
JUL									
13...	.30	1.6	1.6	7.2	.15	.12	2000	2700	7.1
SEP									
06...	2.0	3.4	3.4	15	.40	.38	5500	1100	10

07250585 VINEYARD CREEK NEAR GREENWOOD, AR (LAT 35 11 05 LONG 094 16 33)

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)	TEMPER-ATURE (DEG C) (00010)	DIS-SOLVED OXYGEN (MG/L) (00300)	PER-CENT SATUR-ATION (00301)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)
NOV , 1976										
16...	1028	1028	.83	108	7.2	5.5	12.0	98	300	40
MAR , 1977										
10...	1028	1028	6.3	95	6.7	9.0	11.1	99	B150	140
JUL										
13...	1028	1028	E.05	102	6.0	24.0	2.9	35	B1400	310
SEP										
06...	1028	1028	.23	54	6.7	24.0	6.1	73	E16000	B16000

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

07250585 VINEYARD CREEK NEAR GREENWOOD, AR--CONTINUED
(LAT 35 11 05 LONG 094 16 33)

DATE	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)	BICARBONATE (HCO3) (MG/L) (00440)
NOV , 1976										
16...	110	26	3	4.4	3.7	6.9	35	.6	1.5	28
MAR , 1977										
10...	872	25	5	4.3	3.5	8.1	40	.7	1.0	24
JUL										
13...	640	30	0	5.6	3.8	5.9	28	.5	3.2	38
SEP										
06...	836000	16	4	3.6	1.8	2.6	21	.3	3.7	15

DATE	CARBONATE (CO3) (MG/L) (00445)	ALKALINITY AS CACO3 (MG/L) (00410)	CARBON DIOXIDE (CO2) (MG/L) (00405)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL AMMONIA NITROGEN (N) (MG/L) (00610)
NOV , 1976									
16...	0	23	2.8	7.0	70	.10	.16	.00	.00
MAR , 1977									
10...	0	20	7.7	6.4	50	.07	.85	.04	.00
JUL									
13...	0	31	61	4.2	99	.13	.01	.18	.12
SEP									
06...	0	12	4.8	2.5	45	.06	.03	.29	.20

DATE	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)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
NOV , 1976									
16...	.04	.04	.04	.20	.03	.01	--	--	2.3
MAR , 1977									
10...	.18	.18	.22	.97	.03	.03	480	70	1.7
JUL									
13...	.56	.68	.86	3.8	.11	.05	2300	650	6.6
SEP									
06...	1.8	2.0	2.3	10	.24	.19	13000	390	13

07250587 GREENWOOD WATER SUPPLY LAKE NEAR GREENWOOD, AR (LAT 35 11 38 LONG 094 14 44)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (M) (00078)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)
NOV , 1976												
16...	1028	1028	109	7.3	7.5	17	.90	10.1	87	140	3	88
MAR , 1977												
10...	1028	1028	84	6.7	11.5	70	.50	10.1	95	8160	51	32
JUL												
13...	1028	1028	102	6.5	7.0	11	1.10	7.0	94	812	<2	88
AUG												
08...	1028	1028	113	7.4	29.0	6	.98	7.3	96	<2	<2	92
18...	1028	1028	116	7.6	27.5	23	.90	5.2	67	--	827	43
SEP												
06...	1028	1028	118	7.4	33.0	8	.90	7.1	98	88	87	140

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

07250587 GREENWOOD WATER SUPPLY LAKE NEAR GREENWOOD, AR--CONTINUED
(LAT 35 11 38 LONG 094 14 44)

DATE	HARDNESS (CA,MG) (MG/L) (00900)	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)
NOV , 1976												
16...	32	11	5.5	4.4	7.3	31	.6	2.2	26	0	21	2.1
MAR , 1977												
10...	24	7	3.5	3.8	7.1	38	.6	1.0	21	0	17	6.7
JUL												
13...	38	1	6.6	5.3	8.0	30	.6	1.6	45	0	37	23
AUG												
08...	35	0	5.3	5.3	8.0	32	.6	1.5	45	0	37	2.9
18...	37	0	8.0	4.1	9.0	34	.6	1.5	46	0	38	1.8
SEP												
06...	39	0	6.8	5.3	7.8	29	.5	1.7	50	0	41	3.2

DATE	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 (TONS PER AC-FT) (70303)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	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)
NOV , 1976											
16...	19	5.8	.1	47	.06	2	77	.00	.00	.47	.47
MAR , 1977											
10...	15	5.6	.1	49	.07	0	70	.08	.01	3.5	3.5
JUL											
13...	11	5.4	.1	65	.09	4	80	.01	.01	.48	.49
AUG											
08...	7.0	5.6	.1	71	.10	11	72	.01	.00	.68	.68
18...	16	6.9	.1	73	.10	5	76	.01	.01	.40	.41
SEP											
06...	6.5	5.6	.1	63	.09	5	71	.00	.00	.44	.44

DATE	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG) (00626)	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)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG) (00668)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G) (01003)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G) (01028)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G) (01029)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G) (01038)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G) (01043)
NOV , 1976											
16...	--	.47	2.1	.04	.01	--	--	--	--	--	--
MAR , 1977											
10...	--	3.6	16	.04	.02	--	--	--	--	--	--
JUL											
13...	--	.50	2.2	.06	.06	--	--	--	--	--	--
AUG											
08...	130	.69	3.1	.07	.03	28000	12	<1	9	15	11
18...	--	.42	1.9	.03	.02	--	--	--	--	--	--
SEP											
06...	--	.44	1.9	.02	.01	--	--	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L) (01045)	TOTAL IRON IN BOTTOM MATERIAL (UG/G) (01170)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G) (01052)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G) (01053)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G) (71921)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G) (01148)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G) (01093)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG) (00687)	TOTAL PHYTOPLANKTON (CELLS PER ML) (60050)
NOV , 1976											
16...	420	--	--	90	--	--	--	--	5.4	--	2100
MAR , 1977											
10...	880	--	--	130	--	--	--	--	2.8	--	390
JUL											
13...	470	--	--	140	--	--	--	--	5.0	--	270000
AUG											
08...	320	23000	10	160	770	.0	0	45	5.0	17	21000
18...	430	--	--	240	--	--	--	--	4.1	--	--
SEP											
06...	230	--	--	240	--	--	--	--	7.3	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

07250588 VACHE GRASSE CREEK AT DAM NEAR GREENWOOD, AR (LAT 35 11 39 LONG 094 15 02)

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)	DISSOLVED OXYGEN (MG/L) (00300)	PERCENT SATURATION (00301)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)
NOV , 1976											
16...	1028	1028	2.0	107	7.3	8.0	--	7.4	70	B32	3
MAR , 1977											
10...	1028	1028	19	64	6.7	11.5	100	10.1	95	B110	110
JUL											
13...	1028	1028	E.10	101	6.1	31.5	--	6.8	92	B40	<3
AUG											
08...	1028	1028	E.10	112	7.4	30.0	--	6.5	87	B30	B11

DATE	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)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)
NOV , 1976											
16...	B4	30	6	4.7	4.4	7.4	33	.6	2.2	29	0
MAR , 1977											
10...	37	22	8	3.4	3.4	6.9	38	.6	1.3	18	0
JUL											
13...	B4	38	13	6.5	5.3	7.9	30	.6	1.7	30	0
AUG											
08...	B20	35	15	5.4	5.2	8.0	32	.6	1.5	24	0

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)	DISSOLVED FLUORIDE (F) (MG/L) (00950)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DISSOLVED SOLIDS (TONS PER AC-FT) (70303)	DISSOLVED SOLIDS (TONS PER DAY) (70302)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL RESIDUE (MG/L) (00500)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)
NOV , 1976											
16...	24	2.3	--	5.6	--	82	.11	.45	--	--	.00
MAR , 1977											
10...	15	5.7	13	5.8	.1	49	.07	2.51	1	79	.11
JUL											
13...	25	38	--	6.2	--	81	.11	.02	--	--	.03
AUG											
08...	20	1.5	--	5.5	--	69	.09	--	--	--	.01

DATE	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)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL MANGANESE (MN) (UG/L) (01055)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)
NOV , 1976										
16...	.00	.28	.28	.28	1.2	.05	.01	--	--	4.7
MAR , 1977										
10...	.00	1.1	1.1	1.2	5.4	.05	.04	980	130	2.8
JUL										
13...	.03	.86	.89	.92	4.1	.08	.08	420	1200	6.7
AUG										
08...	.01	.38	.39	.40	1.8	.03	.03	280	190	4.8

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

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 COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
OCT							
06...	810	--	--	--	--	--	--
06...	810	1028	.0	--	--	--	--
06...	810	810	2.5	82	7.0	18.5	300
MAR							
22...	810	--	--	--	--	--	--
22...	810	810	2.5	60	7.4	11.0	160
22...	810	1028	.0	--	--	--	--
AUG							
17...	810	--	--	--	--	--	--
17...	810	810	1.0	120	7.9	30.0	120

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT						
06...	12	--	--	--	--	--
06...	--	--	B60	--	--	--
06...	--	8.3	--	34	24	14
MAR						
22...	12	--	--	--	--	--
22...	--	9.2	--	24	6	10
22...	--	--	B23	--	--	--
AUG						
17...	6.0	--	--	--	--	--
17...	--	4.4	--	38	20	46

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
OCT							
06...	810	--	--	--	--	--	--
06...	810	1028	--	--	--	--	--
06...	810	810	1.5	160	7.2	18.0	80
MAR							
22...	810	1028	.0	--	--	--	--
22...	810	--	--	--	--	--	--
22...	810	1028	1.5	--	--	--	--
22...	810	810	1.5	68	6.9	11.5	75
AUG							
17...	810	--	--	--	--	--	--
17...	810	1028	.0	--	--	--	--
17...	810	810	.7	80	8.3	29.0	160

DATE	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT							
06...	8.0	--	--	--	--	--	--
06...	--	--	4.4	940	--	--	--
06...	--	7.9	--	--	56	28	14
MAR							
22...	--	--	--	B17	--	--	--
22...	24	--	--	--	--	--	--
22...	--	--	1.0	--	--	--	--
22...	--	9.9	--	--	26	8	16
AUG							
17...	12	--	--	--	--	--	--
17...	--	--	--	<33	--	--	--
17...	--	5.1	--	--	32	12	30

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	DISSOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKALINITY AS CACO3 (MG/L) (00410)
OCT												
06...	810	1028	.0	--	--	--	--	--	560	--	--	--
06...	810	810	1.0	55	7.4	22.0	130	7.2	--	32	10	20
MAR												
22...	810	1028	.0	--	--	--	--	--	B3	--	--	--
22...	810	810	1.5	>50	7.1	13.5	40	9.5	--	12	2	6

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
06...	810	--	--	--	--	--	--	12	--	--	--	--
06...	810	1028	.0	--	--	--	--	--	--	--	260	--
06...	810	1028	2.0	157	--	--	--	--	--	4.2	--	--
06...	810	810	2.0	165	7.0	19.0	42	--	6.4	--	--	46
06...	810	1028	8.0	152	--	--	--	--	--	4.4	--	--
06...	810	810	8.0	125	7.6	18.0	40	--	5.7	--	--	48
MAR												
22...	810	--	--	--	--	--	--	18	--	--	--	--
22...	810	1028	.0	--	--	--	--	--	--	--	B27	--
22...	810	1028	3.0	--	--	--	--	--	--	1.4	--	--
22...	810	810	3.0	82	7.5	13.0	70	--	8.5	--	--	26
22...	810	1028	9.0	--	--	--	--	--	--	1.6	--	--
22...	810	810	9.0	60	6.7	11.5	50	--	8.1	--	--	18
AUG												
17...	810	1028	.0	--	--	--	--	--	--	--	B130	--
17...	810	1028	1.0	--	--	--	--	--	--	>7.8	--	--

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												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	2.8	--	10	4.8	.02	.00	.67	.67	.69	3.1	.07
06...	20	--	43	--	--	--	--	--	--	--	--	--
06...	--	2.9	--	9.9	9.2	.01	.02	.51	.53	.54	2.4	.08
06...	22	--	50	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	1.3	--	13	5.4	.12	.07	.64	.71	.83	3.7	.05
22...	9	--	18	--	--	--	--	--	--	--	--	--
22...	--	1.1	--	11	4.9	.14	.05	.84	.89	1.0	4.6	.04
22...	7	--	14	--	--	--	--	--	--	--	--	--
AUG												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	3.9	--	9.8	7.7	.23	.32	.68	1.0	1.2	5.4	.14

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

350550093480800 BLUE MOUNTAIN LAKE NEAR SUGAR GROVE, AR--CONTINUED
(LAT 35 05 50 LONG 093 48 08)

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											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.01	330	1	0	250	1100	<100	300	.0	<50	240
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.01	590	1	0	220	1800	<100	320	.0	<50	260
06...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	.05	380	1	0	<10	1100	<100	180	.0	<50	10
22...	--	--	--	--	--	--	--	--	--	--	--
22...	.04	380	1	0	<10	1200	<100	160	.0	<50	10
22...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	.10	540	1	16	110	2300	<100	550	.1	<50	150

07259000 BLUE MOUNTAIN LAKE NEAR WAVELAND, AR (LAT 35 06 06 LONG 093 39 02)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)	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 .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)
OCT												
06...	810	--	--	--	--	--	--	12	--	--	--	--
06...	810	1028	.0	--	--	--	--	--	--	--	820	--
06...	810	1028	7.0	87	--	--	--	--	--	2.6	--	--
06...	810	810	7.0	70	6.6	19.0	305	--	8.0	--	--	30
06...	810	1028	29	90	--	--	--	--	--	2.2	--	--
06...	810	810	29	75	6.8	18.5	300	--	8.1	--	--	24
MAR												
22...	810	--	--	--	--	--	--	12	--	--	--	--
22...	810	1028	.0	--	--	--	--	--	--	--	87	--
22...	810	1028	9.0	--	--	--	--	--	--	2.0	--	--
22...	810	810	9.0	60	7.2	11.0	180	--	9.3	--	--	22
22...	810	1028	36	--	--	--	--	--	--	1.4	--	--
22...	810	810	36	50	6.7	10.5	190	--	9.3	--	--	20
AUG												
17...	810	--	--	--	--	--	--	6.0	--	--	--	--
17...	810	1028	.0	--	--	--	--	--	--	--	<33	--
17...	810	1028	2.5	--	--	--	--	--	--	2.9	--	--
17...	810	810	2.5	76	7.8	28.0	1600	--	6.7	--	--	40

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												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	2.1	--	12	5.9	.25	.02	.33	.35	.60	2.7	.14
06...	18	--	16	--	--	--	--	--	--	--	--	--
06...	--	2.1	--	12	6.4	.22	.02	.38	.40	.62	2.7	.14
06...	20	--	16	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	1.6	--	13	4.3	.14	.08	.70	.78	.92	4.1	.12
22...	6	--	8	--	--	--	--	--	--	--	--	--
22...	--	1.4	--	11	4.5	.14	.10	.69	.79	.93	4.1	.13
22...	5	--	12	--	--	--	--	--	--	--	--	--
AUG												
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	3.2	--	9.2	5.2	.49	.21	1.1	1.3	1.8	7.9	1.6
17...	14	--	26	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

07259000 BLUE MOUNTAIN LAKE NEAR WAVELAND, AR--CONTINUED
(LAT 35 06 06 LONG 093 39 02)

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											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.14	2100	2	0	240	4600	<100	120	.0	<50	260
06...	--	--	--	--	--	--	--	--	--	--	--
06...	.10	2600	3	0	270	5300	100	130	.0	<50	340
06...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	.12	790	4	0	<10	1600	<100	80	2.7	<50	20
22...	--	--	--	--	--	--	--	--	--	--	--
22...	.13	770	3	0	<10	1600	<100	80	.0	<50	30
22...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	1.6	6600	8	0	120	33000	200	1700	.1	<50	190
17...	--	--	--	--	--	--	--	--	--	--	--

345536093243600 NIMROD LAKE AT HWY 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)	SAMP-LING 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)	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 .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)
OCT												
05...	810	1028	.0	--	--	--	--	--	--	--	857	--
05...	810	--	--	--	--	--	--	24	--	--	--	--
05...	810	1028	2.0	64	--	--	--	--	--	4.0	--	--
05...	810	810	2.0	60	7.1	21.0	10	--	6.2	--	--	18
MAR												
21...	810	--	--	--	--	--	--	30	--	--	--	--
21...	810	1028	.0	--	--	--	--	--	--	--	16	--
21...	810	1028	2.5	--	--	--	--	--	--	1.6	--	--
21...	810	810	2.5	>50	6.8	15.0	35	--	9.7	--	--	12
AUG												
16...	810	1028	.0	--	--	--	--	--	--	--	83	--
16...	810	1028	1.0	--	--	--	--	--	--	3.3	--	--
16...	810	810	1.0	50	7.8	31.0	20	--	7.4	--	--	20

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												
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	1.6	--	2.9	3.3	.01	.00	.37	.37	.38	1.7	.05
05...	32	--	24	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	.8	--	6.0	3.1	.06	.01	.36	.37	.43	1.9	.03
21...	4	--	8	--	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	1.6	--	3.5	2.6	.03	.01	.21	.22	.25	1.1	.03
16...	10	--	24	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

345536093243600 NIMROD LAKE AT HWY 27 BRIDGE, AR--CONTINUED
(LAT 34 55 36 LONG 093 24 36)

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											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	.01	220	1	0	220	650	100	220	.0	50	280
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.03	100	2	0	<10	730	<100	40	.0	<50	10
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.02	80	0	0	110	480	<100	160	.1	<50	130
16...	--	--	--	--	--	--	--	--	--	--	--

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)	SAMP-LING 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)
MAR							
21...	810	1028	.0	--	--	--	--
21...	810	810	1.5	50	8.7	15.0	30
AUG							
17...	810	--	--	--	--	--	--
17...	810	1028	.0	--	--	--	--
17...	810	810	1.0	105	7.3	28.0	175

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
MAR						
21...	--	--	15	--	--	--
21...	--	9.8	--	28	8	14
AUG						
17...	6.0	--	--	--	--	--
17...	--	--	1200	--	--	--
17...	--	.8	--	46	18	60

345703093192400 NIMROD LAKE NEAR WARDS CROSSING, AR (LAT 34 57 03 LONG 093 19 24)

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)	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 .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)
OCT												
05...	810	--	--	--	--	--	--	42	--	--	--	--
05...	810	1028	.0	--	--	--	--	--	--	--	<13	--
05...	810	1028	4.0	48	--	--	--	--	--	3.6	--	--
05...	810	810	4.0	50	6.8	21.5	15	--	5.4	--	--	18
05...	810	1028	16	53	--	--	--	--	--	3.8	--	--
05...	810	810	16	50	6.9	21.0	20	--	2.2	--	--	20
MAR												
21...	810	--	--	--	--	--	--	12	--	--	--	--
21...	810	1028	.0	--	--	--	--	--	--	--	817	--
21...	810	1028	2.0	--	--	--	--	--	--	4.4	--	--
21...	810	810	2.0	60	7.1	15.0	200	--	8.0	--	--	20
21...	810	1028	8.0	--	--	--	--	--	--	4.3	--	--
21...	810	810	8.0	60	7.6	14.0	210	--	4.8	--	--	24
AUG												
16...	810	--	--	--	--	--	--	54	--	--	--	--
16...	810	1028	.0	--	--	--	--	--	--	--	87	--
16...	810	1028	4.0	--	--	--	--	--	--	3.2	--	--
16...	810	810	4.0	50	8.3	30.5	15	--	7.5	--	--	20
16...	810	1028	16	--	--	--	--	--	--	2.6	--	--
16...	810	810	16	60	8.0	28.0	40	--	.2	--	--	24

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

345703093192400 NIMROD LAKE NEAR WARDS CROSSING, AR--CONTINUED
(LAT 34 57 03 LONG 093 19 24)

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												
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	1.2	--	3.1	3.9	.01	.10	.15	.25	.26	1.2	.04
05...	8	--	24	--	--	--	--	--	--	--	--	--
05...	--	1.3	--	3.8	4.1	.01	.16	.27	.43	.44	1.9	.04
05...	20	--	16	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	1.5	--	10	5.3	.04	.11	1.2	1.3	1.3	5.9	.16
21...	4	--	14	--	--	--	--	--	--	--	--	--
21...	--	1.4	--	11	5.1	.04	.07	.82	.89	.93	4.1	.14
21...	8	--	14	--	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	1.7	--	2.7	2.5	.03	.06	.55	.61	.64	2.8	.04
16...	10	--	18	--	--	--	--	--	--	--	--	--
16...	--	1.4	--	2.7	2.6	.01	.02	.43	.45	.46	2.0	.04
16...	12	--	18	--	--	--	--	--	--	--	--	--

DATE	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											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	.01	140	1	0	250	310	<100	280	.0	<50	260
05...	--	--	--	--	--	--	--	--	--	--	--
05...	.01	400	2	0	340	660	100	420	.0	50	440
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.07	470	2	0	<10	3900	<100	1000	.0	<50	20
21...	--	--	--	--	--	--	--	--	--	--	--
21...	.08	560	2	0	<10	4500	<100	1100	.1	<50	30
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.03	90	0	0	140	240	<100	60	.1	<50	180
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.04	110	2	8	110	1700	100	1100	.1	<50	150
16...	--	--	--	--	--	--	--	--	--	--	--

345654093171200 NIMROD LAKE AT PRAIRIE CREEK, AR (LAT 34 56 54 LONG 093 17 12)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
OCT							
05...	810	--	--	--	--	--	--
05...	810	1028	.0	--	--	--	--
05...	810	--	3.0	>50	7.3	21.5	15
MAR							
23...	810	--	--	--	--	--	--
23...	810	1028	.0	--	--	--	--
23...	810	810	2.5	>50	7.9	15.0	60
AUG							
16...	810	--	--	--	--	--	--
16...	810	1028	.0	--	--	--	--
16...	810	810	2.5	>50	8.3	31.0	15
16...	810	810	10	>50	8.2	30.0	25

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

ARKANSAS RIVER BASIN--CONTINUED

345654093171200 NIMROD LAKE AT PRAIRIE CREEK, AR--CONTINUED
(LAT 34 56 54 LONG 093 17 12)

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT						
05...	24	--	--	--	--	--
05...	--	--	<13	--	--	--
05...	--	7.9	--	18	6	14
MAR						
23...	18	--	--	--	--	--
23...	--	--	B3	--	--	--
23...	--	9.5	--	10	6	10
AUG						
16...	42	--	--	--	--	--
16...	--	--	<3	--	--	--
16...	--	7.7	--	16	10	20
16...	--	4.2	--	20	8	20

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)	SAMP-LING 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							
05...	810	--	--	--	--	--	--
05...	810	1028	.0	--	--	--	--
05...	810	810	1.5	50	6.9	21.0	30
MAR							
21...	810	1028	.0	--	--	--	--
23...	810	--	--	--	--	--	--
23...	810	810	1.5	>50	7.7	14.0	80
AUG							
16...	810	--	--	--	--	--	--
16...	810	1028	.0	--	--	--	--
16...	810	810	3.0	75	8.4	31.5	10
16...	810	810	11	50	7.7	30.0	45

DATE	TRANS-PAR-ENCY (SECCHI DISK) (IN) (00077)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	HARD-NESS (CA,MG) (MG/L) (00900)	CALCIUM AS CACO3 (MG/L) (00910)	ALKA-LINITY AS CACO3 (MG/L) (00410)
OCT						
05...	18	--	--	--	--	--
05...	--	--	B16	--	--	--
05...	--	8.0	--	20	6	11
MAR						
21...	--	--	B3	--	--	--
23...	18	--	--	--	--	--
23...	--	10.2	--	10	2	6
AUG						
16...	48	--	--	--	--	--
16...	--	--	<3	--	--	--
16...	--	7.6	--	24	12	24
16...	--	2.9	--	28	12	18

WATER QUALITY DATA, JULY 1976 TO SEPTEMBER 1977

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)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	TRANSPARENCY (SECCHI DISK) (IN) (00077)	DISSOLVED OXYGEN (MG/L) (00300)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L) (00310)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	HARDNESS (CA,MG) (MG/L) (00900)
OCT												
05...	810	--	--	--	--	--	--	30	--	--	--	--
05...	810	1028	.0	--	--	--	--	--	--	--	<2	--
05...	810	1028	6.6	47	--	--	--	--	--	3.0	--	--
05...	810	810	6.0	>50	6.7	22.0	22	--	7.8	--	--	20
05...	810	1028	26	48	--	--	--	--	--	3.5	--	--
05...	810	810	26	>50	7.0	21.0	20	--	4.8	--	--	16
MAR												
23...	810	--	--	--	--	--	--	24	--	--	--	--
23...	810	1028	.0	--	--	--	--	--	--	--	<3	--
23...	810	1028	14	--	--	--	--	--	--	2.1	--	--
23...	810	810	14	>50	8.2	13.0	90	--	8.8	--	--	12
23...	810	1028	21	--	--	--	--	--	--	1.6	--	--
23...	810	810	21	>50	8.0	13.5	90	--	8.9	--	--	14
AUG												
16...	810	--	--	--	--	--	--	42	--	--	--	--
16...	810	1028	.0	--	--	--	--	--	--	--	<11	--
16...	810	1028	7.0	--	--	--	--	--	--	2.7	--	--
16...	810	810	7.0	50	7.4	30.5	5	--	5.0	--	--	26
16...	810	1028	28	--	--	--	--	--	--	1.3	--	--
16...	810	810	28	60	8.2	28.5	80	--	.3	--	--	32

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												
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	1.3	--	9.9	9.5	.02	.06	.22	.28	.30	1.3	.05
05...	6	--	11	--	--	--	--	--	--	--	--	--
05...	--	1.3	--	4.2	4.1	.02	.06	.18	.24	.26	1.2	.04
05...	4	--	12	--	--	--	--	--	--	--	--	--
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	1.1	--	4.4	2.8	.12	.07	.52	.59	.71	3.1	.05
23...	3	--	14	--	--	--	--	--	--	--	--	--
23...	--	1.2	--	5.0	2.8	.12	.05	.62	.67	.79	3.5	.05
23...	2	--	6	--	--	--	--	--	--	--	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	2.1	--	3.1	2.8	.03	.07	.82	.89	.92	4.1	.06
16...	10	--	20	--	--	--	--	--	--	--	--	--
16...	--	2.5	--	3.8	4.6	.29	.51	1.5	2.0	2.3	10	.09
16...	8	--	28	--	--	--	--	--	--	--	--	--

DATE	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											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	.01	240	1	0	210	470	<100	100	.0	100	240
05...	--	--	--	--	--	--	--	--	--	--	--
05...	.01	230	1	0	220	580	<100	140	.0	50	310
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
23...	.05	500	3	0	10	1100	<100	90	.0	<50	40
23...	--	--	--	--	--	--	--	--	--	--	--
23...	.05	410	1	0	<10	900	<100	100	.0	<50	40
23...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.05	80	0	8	120	330	<100	170	.0	<50	190
16...	--	--	--	--	--	--	--	--	--	--	--
16...	.08	210	3	0	90	2300	200	1800	.0	<50	120
16...	--	--	--	--	--	--	--	--	--	--	--

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)

WHITE RIVER BASIN

07048000 - WEST FORK WHITE RIVER AT GREENLAND, ARK (LAT 35 58 50 LONG 094 10 25)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
12...	1028	1028	.40	19.0
NOV				
23...	1028	1028	8.5	5.5
JAN , 1977				
04...	1028	1028	5.5	1.5
FEB				
15...	1028	1028	42	2.5
MAR				
29...	1028	1028	674	14.0
MAY , 1977				
10...	1028	1028	8.2	21.0
JUN				
20...	1028	1028	1.4	25.0
AUG				
02...	1028	1028	15	25.0
SEP				
14...	1028	1028	4.0	22.0

07048600 - WHITE RIVER NEAR FAYETTEVILLE, ARK. (LAT 36 04 23 LONG 094 04 51)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
13...	1028	1028	7.9	18.0
NOV				
24...	1028	1028	60	6.0
JAN , 1977				
04...	1028	1028	40	2.5
FEB				
15...	1028	1028	348	4.5
MAR				
29...	1028	1028	4010	14.0
MAY , 1977				
10...	1028	1028	64	21.5
JUN				
20...	1028	1028	163	26.5
27...	1028	1028	26	26.5
AUG				
02...	1028	1028	30	24.5
SEP				
14...	1028	1028	30	22.0

07055000 - WHITE RIVER NEAR FLIPPIN, ARK. (LAT 36 18 35 LONG 092 33 28)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
MAR , 1977				
03...	1028	1028	315	7.5
MAY				
26...	1028	1028	620	11.0
JUL , 1977				
07...	1028	1028	378	14.0
AUG				
19...	1028	1028	391	17.0

07069500 - SPRING RIVER AT IMBODEN, ARK. (LAT 36 12 19 LONG 091 10 19)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
28...	1028	1028	367	11.5
DEC				
02...	1028	1028	357	1.0
FEB , 1977				
24...	1028	1028	690	10.5
MAR				
28...	1028	1028	74500	--
MAY , 1977				
19...	1028	1028	709	23.0
JUN				
30...	1028	1028	513	26.0
AUG				
11...	1028	1028	370	28.5
SEP				
21...	1028	1028	488	22.0

07072000 - ELEVENPOINT RIVER NR RAVENDEN SPRINGS, ARK. (LAT 36 20 48 LONG 091 06 48)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
27...	1028	1028	454	12.5
DEC				
01...	1028	1028	416	6.5
AUG , 1977				
12...	1028	1028	418	24.0
SEP				
20...	1028	1028	534	21.5

07076850 - CYPRESS BAYOU NEAR BEEBE, ARK (LAT 35 01 30 LONG 091 52 23)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
NOV , 1976				
02...	1028	1028	5.9	11.5
FEB , 1977				
24...	1028	1028	211	12.0
MAR				
04...	1028	1028	2050	11.0
29...	1028	1028	3660	17.5
JUN , 1977				
30...	1028	1028	809	29.0
SEP				
30...	1028	1028	1060	21.0

07077380 - CACHE RIVER AT EGYPT, ARK (LAT 35 51 28 LONG 090 56 00)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
26...	1028	1028	468	12.5
NOV				
30...	1028	1028	28	2.0
FEB , 1977				
22...	1028	1028	38	12.0
MAR				
29...	1028	1028	3170	17.0
MAY , 1977				
17...	1028	1028	49	23.5
JUN				
28...	1028	1028	670	26.5
AUG				
10...	1028	1028	186	28.5
SEP				
19...	1028	1028	917	24.5

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)

WHITE RIVER BASIN--CONTINUED

07077950 - BIG CREEK AT POPLAR GROVE, ARK. (LAT 34 33 20 LONG 090 50 44)

DATE				
OCT , 1976				
04...	1028	1028	15	21.5
NOV				
08...	1028	1028	232	9.0
DEC				
27...	1028	1028	77	8.0
FEB , 1977				
01...	1028	1028	245	.5
MAR				
17...	1028	1028	1460	14.5
MAY , 1977				
03...	1028	1028	29	11.0
JUN				
06...	1028	1028	2.7	26.5
JUL				
13...	1028	1028	319	27.0
AUG				
31...	1028	1028	194	27.0

ARKANSAS RIVER BASIN

07195800 - FLINT CREEK AT SPRINGTOWN, ARK. (LAT 36 15 20 LONG 094 25 50)

DATE				
OCT , 1976				
12...	1028	1028	7.4	15.0
NOV				
24...	1028	1028	6.7	9.0
FEB , 1977				
16...	1028	1028	7.8	6.5
MAR				
29...	1028	1028	36	4.0
MAY , 1977				
12...	1028	1028	5.3	14.0
JUN				
21...	1028	1028	4.4	21.5
AUG				
03...	1028	1028	3.3	21.0
SEP				
14...	1028	1028	5.5	18.0

07247000 - POTEAU RIVER AT CAUTHRON, ARK. (LAT 34 55 08 LONG 094 17 55)

DATE				
OCT , 1976				
05...	1028	1028	15	20.5
08...	1028	1028	10	15.5
15...	1028	1028	1.3	18.0
19...	1028	1028	1.1	13.5
25...	1028	1028	114	14.0
DEC				
01...	1028	1028	13	6.0
JAN , 1977				
20...	1028	1028	127	2.0
FEB				
23...	1028	1028	65	9.5
APR , 1977				
05...	1028	1028	314	14.0
MAY				
18...	1028	1028	4.0	24.5
JUN				
28...	1028	1028	22	27.0
AUG				
09...	1028	1028	1.1	30.5
SEP				
19...	1028	1028	7.6	24.5

07252000 - MULBERRY RIVER NEAR MULBERRY, ARK. (LAT 35 34 37 LONG 094 00 55)

DATE				
OCT , 1976				
07...	1028	1028	6.9	18.5
NOV				
09...	1028	1028	54	8.5
DEC				
20...	1028	1028	187	5.5
FEB , 1977				
01...	1028	1028	242	.0
MAR				
15...	1028	1028	1170	12.0
APR , 1977				
26...	1028	1028	441	14.5
JUN				
07...	1028	1028	10	26.5
JUL				
19...	1028	1028	9.3	30.0
AUG				
30...	1028	1028	24	27.5

07257000 - BIG PINEY CREEK NEAR DOVER, ARK. (LAT 35 32 58 LONG 093 09 30)

DATE				
OCT , 1976				
07...	1028	1028	.73	17.0
NOV				
09...	1028	1028	22	9.5
DEC				
20...	1028	1028	90	6.0
FEB , 1977				
01...	1028	1028	154	3.0
MAR				
15...	1028	1028	920	13.5
28...	1028	1028	14700	6.5
MAR , 1977				
28...	1028	1028	12500	6.5
APR				
26...	1028	1028	585	15.5
JUN				
07...	1028	1028	8.5	28.0
JUL				
19...	1028	1028	5.0	31.0
AUG				
30...	1028	1028	14	28.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
ARKANSAS RIVER BASIN--CONTINUED				
07260500 - PETIT JEAN RV AT DANVILLE ARK. (LAT 35 03 33 LONG 093 23 44)				
OCT , 1976				
26...	1028	1028	33	12.0
DEC				
08...	1028	1028	110	4.0
JAN , 1977				
25...	1028	1028	1270	2.5
FEB				
17...	1028	1028	625	7.0
APR				
12...	1028	1028	2220	18.0
MAY				
25...	1028	1028	43	25.0
JUL , 1977				
05...	1028	1028	306	29.0
AUG				
16...	1028	1028	32	30.0
30...	1028	1028	10	27.0
SEP				
07...	1028	1028	94	26.0
16...	1028	1028	35	23.0
28...	1028	1028	23	24.5
07261000 - CADRON CREEK NEAR GUY, ARK. (LAT 35 17 56 LONG 092 24 10)				
OCT , 1976				
26...	1028	1028	213	12.5
JAN , 1977				
21...	1028	1028	184	1.0
MAR				
01...	1028	1028	244	8.0
APR , 1977				
12...	1028	1028	195	7.5
JUL				
06...	1028	1028	16	27.5
AUG				
16...	1028	1028	12	28.5
RED RIVER BASIN				
07337000 - RED RIVER AT INDEX,ARK (LAT 33 33 07 LONG 094 02 28)				
NOV , 1976				
03...	1028	1028	3410	14.5
DEC				
14...	1028	1028	10700	8.0
JAN , 1977				
21...	1028	1028	11600	2.0
MAR				
07...	1028	1028	17800	18.0
MAY , 1977				
18...	1028	1028	6260	25.5
JUN				
03...	1028	1028	37200	27.0
JUL				
21...	1028	1028	3090	28.0
AUG				
26...	1028	1028	5060	30.0
07339500 - ROLLING FORK NR. DE QUEEN, ARK (LAT 34 02 51 LONG 094 24 47)				
NOV , 1976				
04...	1028	1028	171	12.0
DEC				
16...	1028	1028	384	8.5
JAN , 1977				
26...	1028	1028	376	5.0
APR				
21...	1028	1028	1110	16.0
JUN , 1977				
07...	1028	1028	6.8	26.5
JUL				
15...	1028	1028	3.7	28.0
AUG				
31...	1028	1028	1.4	26.0
07340300 - COSSATOT RIVER NEAR VANDERVOORT, ARK. (LAT 34 22 46 LONG 094 14 08)				
OCT , 1976				
20...	1028	1028	36	9.0
DEC				
01...	1028	1028	105	5.0
JAN , 1977				
20...	1028	1028	119	3.5
FEB				
22...	1028	1028	70	9.5
APR				
05...	1028	1028	218	14.0
MAY , 1977				
17...	1028	1028	23	24.0
JUN				
29...	1028	1028	23	28.5
AUG				
10...	1028	1028	13	28.0
SEP				
20...	1028	1028	12	20.5
07340500 - COSSATOT RIVER NEAR DEQUEEN, ARK. (LAT 34 02 45 LONG 094 12 42)				
NOV , 1976				
05...	1028	1028	900	11.5
DEC				
16...	1028	1028	743	8.5
JAN , 1977				
26...	1028	1028	678	5.5
MAR				
02...	1028	1028	705	9.0
APR , 1977				
20...	1028	1028	2580	16.5
JUN				
06...	1028	1028	32	30.5
JUL				
14...	1028	1028	44	30.5
AUG				
31...	1028	1028	40	28.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

RED RIVER BASIN--CONTINUED

07341000 - SALINE RIVER NEAR DIERKS, ARK. (LAT 34 05 45 LONG 094 05 04)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
NOV , 1976				
04...	1028	1028	195	13.0
DEC				
15...	1028	1028	678	11.0
JAN , 1977				
25...	1028	1028	93	5.0
MAR				
01...	1028	1028	382	8.5
APR , 1977				
19...	1028	1028	356	16.5
JUN				
06...	1028	1028	19	30.0
JUL				
14...	1028	1028	12	29.0
AUG				
30...	1028	1028	13	28.0

07361500 - ANTOINE RIVER AT ANTOINE, ARKANSAS (LAT 34 02 20 LONG 093 25 05)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
12...	1028	1028	2.9	17.0
NOV				
29...	1028	1028	89	5.0
JAN , 1977				
04...	1028	1028	36	2.0
FEB				
15...	1028	1028	504	6.0
MAR				
03...	1028	1028	11200	8.0
APR , 1977				
04...	1028	1028	2560	10.0
MAY				
10...	1028	1028	39	21.0
JUN				
21...	1028	1028	55	26.0
AUG				
08...	1028	1028	8.4	28.5
SEP				
13...	1028	1028	3.1	25.5

07362100 - SMACKOVER CREEK NEAR SMACKOVER, ARK. (LAT 33 22 33 LONG 092 46 37)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
14...	1028	1028	13	15.0
DEC				
01...	1028	1028	58	4.0
JAN , 1977				
06...	1028	1028	64	3.0
MAR				
31...	1028	1028	1720	18.0
MAY , 1977				
12...	1028	1028	165	18.0
JUN				
23...	1028	1028	21	26.0
AUG				
10...	1028	1028	16	27.0
SEP				
15...	1028	1028	9.6	20.0

07362500 - MORO CREEK NEAR FORDYCE, ARKANSAS (LAT 33 47 32 LONG 092 19 30)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
DEC , 1976				
28...	1028	1028	32	4.5
FEB , 1977				
03...	1028	1028	88	4.5
MAR , 1977				
14...	1028	1028	550	13.0
MAY				
05...	1028	1028	161	13.0

07363000 - SALINE RIVER AT BENTON, ARK. (LAT 34 34 05 LONG 092 36 40)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
01...	1028	1028	34	21.5
NOV				
15...	1028	1028	101	8.0
DEC				
29...	1028	1028	141	6.0
FEB , 1977				
09...	1028	1028	352	10.0
MAR , 1977				
23...	1028	1028	280	12.0
MAY				
11...	1028	1028	160	21.0
JUL				
28...	1028	1028	68	26.5
SEP				
06...	1028	1028	13	26.0

07363200 - SALINE RIVER NEAR SHERIDAN, ARK. (LAT 34 06 56 LONG 092 24 21)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
OCT , 1976				
07...	1028	1028	78	16.0
NOV				
11...	1028	1028	192	10.0
DEC				
30...	1028	1028	383	4.0
JAN , 1977				
27...	1028	1028	1390	9.0
MAR				
07...	1028	1028	18200	11.0
18...	1028	1028	1360	20.0
MAY , 1977				
02...	1028	1028	704	9.0
JUN				
09...	1028	1028	53	25.5
JUL				
15...	1028	1028	69	30.5
SEP				
01...	1028	1028	43	27.0

07363300 - HURRICANE CR NR SHERIDAN, ARK (LAT 34 19 10 LONG 092 20 40)

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
NOV , 1976				
11...	1028	1028	5.5	9.0
DEC				
30...	1028	1028	12	3.5
JAN , 1977				
31...	1028	1028	48	2.5
MAR				
18...	1028	1028	156	14.5
MAY , 1977				
06...	1028	1028	106	20.0
JUN				
09...	1028	1028	2.0	25.0
JUL				
15...	1028	1028	2.9	28.0

TEMPERATURE MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)	DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	INSTANTANEOUS DISCHARGE (CFS) (00061)	TEMPERATURE (DEG C) (00010)
RED RIVER BASIN--CONTINUED									
07363500 - SALINE RIVER NEAR RYE, ARK. (LAT 33 42 00 LONG 092 01 33)									
OCT , 1976					MAY , 1977				
06...	1028	1028	72	19.0	05...	1028	1028	3170	--
NOV					JUN				
10...	1028	1028	314	10.0	08...	1028	1028	82	28.0
DEC					JUL				
28...	1028	1028	532	6.0	15...	1028	1028	98	30.5
FEB , 1977					AUG				
02...	1028	1028	1090	5.0	30...	1028	1028	64	29.5
MAR									
14...	1028	1028	11500	12.0					
07364150 - BAYOU BARTHOLOMEW NEAR MCGEHEE, ARK (LAT 33 37 40 LONG 091 26 45)									
OCT , 1976					MAY , 1977				
05...	1028	1028	39	17.0	04...	1028	1028	432	15.0
NOV					JUN				
09...	1028	1028	673	11.0	08...	1028	1028	33	24.0
DEC					JUL				
29...	1028	1028	183	5.5	14...	1028	1028	45	28.0
FEB , 1977					AUG				
03...	1028	1028	615	3.5	29...	1028	1028	109	27.5
MAR									
16...	1028	1028	1900	15.0					
07365800 - CORNIE BAYOU NEAR THREE CREEKS (LAT 33 02 21 LONG 092 56 15)									
OCT , 1976					MAY , 1977				
13...	1028	1028	3.1	15.0	11...	1028	1028	346	18.0
NOV					JUN				
30...	1028	1028	35	5.5	22...	1028	1028	4.6	27.0
JAN , 1977					AUG				
05...	1028	1028	20	2.5	09...	1028	1028	5.3	26.0
FEB					SEP				
16...	1028	1028	416	5.0	14...	1028	1028	.04	23.5
MAR									
31...	1028	1028	885	7.5					

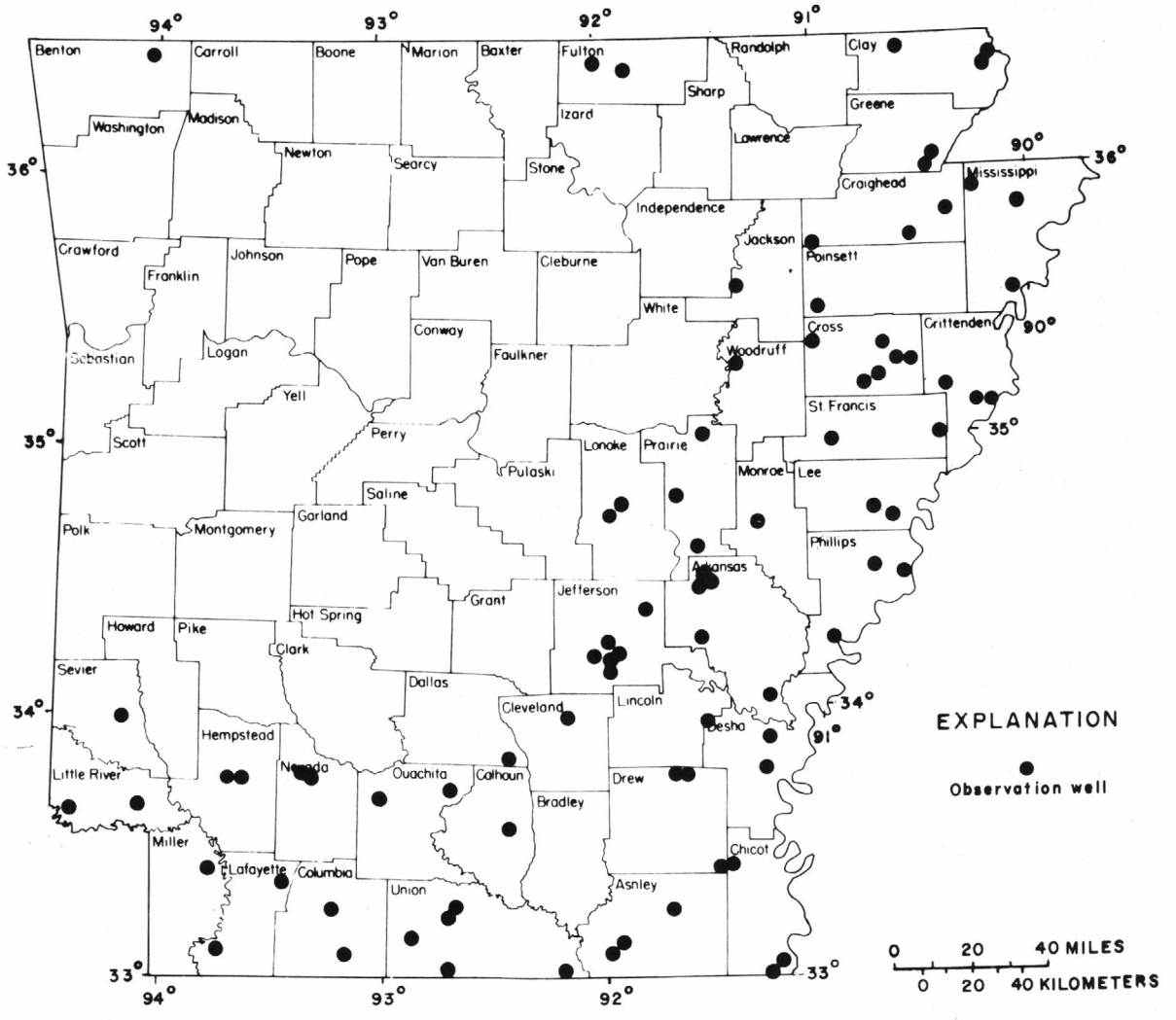

Figure 5.--Locations of observation wells in Arkansas.

ARKANSAS COUNTY

340529091154801. Local number, 07S02W17BBA1.
LOCATION.--Lat 34°05'29", long 91°15'48", Hydrologic Unit 08020401, 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. 21, 1977, 49.13 ft (14.97 m) below land surface.

341537091314001. Local number, 05S05W15ADD1.
LOCATION.--Lat 34°15'37", long 91°31'40", Hydrologic Unit 08020402, 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. 22, 1977, 51.29 ft (15.63 m) below land surface.

342839091322601. Local number, 03S05W03BBB1.
LOCATION.--Lat 34°28'39", long 91°32'26", Hydrologic Unit 08020402, 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 (24.09 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 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	104.68	104.67	104.47	104.18	104.02	104.05	103.76	103.60	104.23	104.76	---	---
10	104.79	104.36	104.50	104.24	104.15	103.83	104.14	103.72	104.37	104.74	---	---
15	104.61	104.38	104.28	104.05	104.05	103.84	103.69	103.68	104.59	104.80	---	---
20	104.77	104.20	104.16	104.17	104.02	103.90	103.65	103.88	104.44	104.82	---	---
25	104.42	104.37	104.08	104.01	103.73	103.99	103.78	104.03	104.49	104.75	---	---
EOM	104.59	104.68	104.35	104.33	104.28	104.09	103.80	104.09	104.54	104.77	---	---

WTR YEAR 1977 MAX 103.32 FEB. 23, 1977 MIN 104.88 JULY 21, 1977

342842091303401. Local number, 03S05W02AAB1.
LOCATION.--Lat 34°28'42", long 91°30'34", Hydrologic Unit 08020402, 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. 25, 1977, 131.10 ft (39.96 m) below land surface.

342924091315301. Local number, 02S05W34BDA1.
LOCATION.--Lat 34°29'24", long 91°31'53", Hydrologic Unit 08020402, 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, 225.25 ft (68.66 m) below land surface, Sept. 5, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	171.66	---	---	---	---	137.64	134.90	137.39	185.77	203.80	198.70	225.05
10	168.07	---	---	---	---	136.91	134.76	138.85	206.21	208.41	210.29	205.16
15	165.56	---	---	---	---	---	134.41	148.24	---	204.79	217.80	195.72
20	163.12	---	---	---	---	---	134.14	154.78	---	204.91	218.26	189.32
25	160.42	---	---	---	---	136.04	133.87	172.66	---	210.92	221.16	184.13
EOM	---	---	---	141.45	138.20	135.37	136.66	179.10	202.10	196.42	218.73	179.85

WTR YEAR 1977 MAX 133.79 APR. 26, 1977 MIN 225.25 SEPT. 5, 1977

330624091552801. Local number, 18S08W28DDD2.
LOCATION.--Lat 33°06'24", long 91°55'28", Hydrologic Unit 08040205, 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 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	88.73	88.88	88.59	88.81	88.80	88.93	88.92	88.54	88.72	88.68	88.75	88.52
10	88.80	88.54	88.76	89.08	88.70	88.40	88.95	88.64	88.75	88.69	88.63	88.75
15	88.66	88.64	88.60	88.67	88.93	88.75	88.55	88.65	88.76	88.70	88.73	88.73
20	88.90	88.53	88.76	88.69	88.77	88.83	88.56	88.60	88.68	88.65	88.65	88.68
25	88.58	88.55	88.47	88.69	88.67	88.70	88.70	88.61	88.59	88.63	88.71	88.52
EOM	88.91	89.00	89.07	88.92	89.10	89.01	88.72	88.79	88.68	88.61	88.63	88.57

WTR YEAR 1977 MAX 88.08 MAR. 28, 1977 MIN 89.23 APR. 6, 1977

331009091523201. Local number, 18S08W01DBA1.
LOCATION.--Lat 33°10'09", long 91°52'32", Hydrologic Unit 08040205, 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, 86.71 ft (26.43 m) below land surface, Sept. 16, 1970.
MEASUREMENT FOR CURRENT YEAR.--Apr. 11, 1977, 83.98 ft (25.60 m) below land surface.

331729091424001. Local number, 16S06W27BAB1.
LOCATION.--Lat 33°17'29", long 91°42'40", Hydrologic Unit 08040205, near Mist.
Owner: E. T. Muller.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 12-8 in (0.30-0.20 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, 74.88 ft (22.82 m) below land surface, Apr. 11, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 11, 1977, 74.88 ft (22.82 m) below land surface.

BENTON COUNTY

362636094012601. Local number, 21N29W35DDB1.
LOCATION.--Lat 36°26'36", long 94°01'26", Hydrologic Unit 11070208, 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 are 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.--May 25, 1977, 309.58 ft (94.36 m) below land surface.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
AUG 26...	1028	1028	381	7.6	17.0	12	180	0	0	180

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)
AUG 26...	7	42	18	6.1	7	.2	2.3	210	0	172

362636094012601. Local number, 21N29W35DDB1--Continued.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CARBON DIOXIDE (CO2) (MG/L) (00405)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLO-RIDE (CL) (MG/L) (00940)	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NITRATE (N) (MG/L) (00620)
AUG 26...	8.4	12	7.2	9.3	189	860	204	.26	.00

DATE	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	DIS-SOLVED COPPER (CU) (UG/L) (01040)
AUG 26...	.00	.00	.00	.01	0	0	0	0	18

DATE	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS-SOLVED URANIUM (U) (UG/L) (80020)	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)
AUG 26...	3000	29	40	.0	1	250	.87	.63	.0	.00	.00

DATE	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)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTA-CHLOR (UG/L) (39410)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)
AUG 26...	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L) (39340)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	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)
AUG 26...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

CALHOUN COUNTY

333230092274501. Local number, 13S13W32CDA1.
LOCATION.--Lat 33°32'30", long 92°27'45", Hydrologic Unit 08040201, 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.--Apr. 11, 1977, 153.67 ft (46.84 m) below land surface.

CHICOT COUNTY

330215091120501. Local number, 19S01W21AAA1.
LOCATION.--Lat 33°02'15", long 91°12'05", Hydrologic Unit 08050002, 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.--Apr. 8, 1977, 18.24 ft (5.56 m) below land surface.

330640091154103. Local number, 18S02W25ABB3.
LOCATION.--Lat 33°06'40", long 91°15'41", Hydrologic Unit 08050002, 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.--Apr. 8, 1977, 39.83 ft (12.14 m) below land surface.

332628091261201. Local number, 14S03W32BCD1.
LOCATION.--Lat 33°26'28", long 91°26'12", Hydrologic Unit 08050001, 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) above mean sea level. Measuring point: Top of 2-in (0.05-m) pipe, southwest side of pump, 2.50 ft (0.76 m) ablve 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.--Apr. 7, 1977, 24.19 ft (7.37 m) below land surface.

CLAY COUNTY

362311090111002. Local number, 20N08E11BAC2.
LOCATION.--Lat 36°23'11", long 90°11'10", Hydrologic Unit 08020203, 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 (5.64 m) below land surface, Apr. 13, 1967.
MEASUREMENT FOR CURRENT YEAR.--Apr. 14, 1977, 15.30 ft (4.66 m) below land surface.

362502090095801. Local number, 21N08E36ABB1.
LOCATION.--Lat 36°25'02", long 90°09'58", Hydrologic Unit 08020203, 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, 0.35 ft (0.11 m) above land surface, Mar. 29, 1974; lowest, 9.48 ft (2.89 m) below land surface, Jan. 15, 1957.
MEASUREMENT FOR CURRENT YEAR.--Apr. 13, 1977, 2.15 ft (0.65 m) below land surface.

362759090332401. Local number, 21N05E17ABB1.
LOCATION.--Lat 36°27'59", long 90°33'24", Hydrologic Unit 11010007, near Corning.
Owner: D and E Farms.
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, 1973; lowest, 20.88 ft (6.36 m) below land surface, Mar. 11, 1964.
MEASUREMENT FOR CURRENT YEAR.--Apr. 14, 1977, 16.30 ft (4.97 m) below land surface.

CLEVELAND COUNTY

335729092112002. Local number, 09S11W01DDA2.
LOCATION.--Lat 33°57'29", long 92°11'20", Hydrologic Unit 08040204, 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, 181.81 ft (55.42 m) below land surface, Apr. 6, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 6, 1977, 181.81 ft (55.42 m) below land surface.

330557093114601. Local number, 19S20W08DAD1.
LOCATION.--Lat 33°05'57", long 93°11'46", Hydrologic Unit 11140203, 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, 260.19 ft (79.31 m) below land surface, Apr. 12, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 12, 1977, 260.19 ft (79.31 m) below land surface.

331609093144902. Local number, 17S21W11DCC2.
LOCATION.--Lat 33°16'09", long 93°14'49", Hydrologic Unit 11140203, 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. 18, 1977, 323.20 ft (98.51 m) below land surface.

CRAIGHEAD COUNTY

354246090503801. Local number, 13N02E35DAA1.
LOCATION.--Lat 35°42'46", long 90°50'38", Hydrologic Unit 08020302, 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 72.12 ft (21.98 m) below land surface, Aug. 17, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.64	68.43	68.18	68.18	68.11	68.08	67.93	67.63	69.63	70.78	71.64	71.23
10	68.64	68.37	68.19	68.28	67.93	67.65	67.82	67.77	69.85	70.02	71.79	71.22
15	68.55	68.32	68.08	68.08	68.14	67.90	67.70	67.70	70.06	70.22	72.04	71.13
20	68.56	68.28	68.27	68.02	67.93	67.96	67.71	68.56	70.24	70.87	71.67	71.06
25	68.47	68.17	68.07	68.00	67.99	67.78	67.70	69.02	70.41	71.17	71.51	70.91
EOM	68.55	68.25	68.31	68.06	68.08	68.17	67.71	69.51	70.66	71.44	71.35	70.83

WTR YEAR 1977 MAX 67.16 MAR. 28, 1977 MIN 72.12 AUG. 17, 1977

354921090281201. Local number, 14N06E20CCD1.
LOCATION.--Lat 35°49'21", long 90°28'12", Hydrologic Unit 08020203, 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.--Apr. 11, 1977, 3.47 ft (1.06 m) below land surface.

354437090335701. Local number, 13N05E21BDD1.
LOCATION.--Lat 35°44'37", long 90°33'57", Hydrologic Unit 08020203.
Owner: Town of Bay.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16 in (0.41 m), depth 147 ft (45 m), cased 0-97 ft (0-30 m), screened 97-127 ft (30-39 m), cased 127-147 ft (39-45 m).
DATUM.--Land surface, 226 ft (69 m) above mean sea level. Measuring point: Breather-pipe hole, 1.50 ft (0.46 m) above land surface.
REMARKS.--Water-quality records available: December 1976.
PERIOD OF RECORD.--March 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.10 ft (2.16 m) below land surface Apr. 9, 1973; lowest, 11.72 ft (3.57 m) below land surface Apr. 7, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 7, 1968	8.96	APR. 1, 1974	9.30	SEPT. 25, 1975	10.44	APR. 4, 1977	11.72
APR. 9, 1973	7.10	APR. 4, 1975	7.92	MAR. 26, 1976	10.10		

354437090335701. Local number, 13N05E21BDD1--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
DEC 08...	1028	1028	100	385	7.4	17.0	4	0	0	0	180	15

DATE	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
DEC 08...	54	12	10	10	.3	2.4	206	0	169	13	31	6.6

DATE	DISSOLVED SILICA (SIO2) (MG/L) (00955)	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)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED ALUMINUM (AL) (UG/L) (01106)
DEC 08...	24	238	250	243	.32	2	.00	.00	.00	.00	.18	10

DATE	DISSOLVED ARSENIC (AS) (UG/L) (01000)	DISSOLVED BARIUM (BA) (UG/L) (01005)	DISSOLVED BERYLLIUM (BE) (UG/L) (01010)	DISSOLVED BISMUTH (BI) (UG/L) (01015)	DISSOLVED BORON (B) (UG/L) (01020)	DISSOLVED CADMIUM (CD) (UG/L) (01025)	DISSOLVED CHROMIUM (CR) (UG/L) (01030)	DISSOLVED COBALT (CO) (UG/L) (01035)	DISSOLVED COPPER (CU) (UG/L) (01040)	DISSOLVED GALLIUM (GA) (UG/L) (01120)	DISSOLVED GERMANIUM (GE) (UG/L) (01125)
DEC 08...	3	200	<1	<2	20	0	9	<2	1	<2	<5

DATE	DISSOLVED IRON (FE) (UG/L) (01046)	DISSOLVED LEAD (PB) (UG/L) (01049)	DISSOLVED LITHIUM (LI) (UG/L) (01130)	DISSOLVED MANGANESE (MN) (UG/L) (01056)	DISSOLVED MERCURY (HG) (UG/L) (71890)	DISSOLVED MOLYBDENUM (MO) (UG/L) (01060)	DISSOLVED NICKEL (NI) (UG/L) (01065)	DISSOLVED SELENIUM (SE) (UG/L) (01145)	DISSOLVED SILVER (AG) (UG/L) (01075)	DISSOLVED STRONTIUM (SR) (UG/L) (01080)	DISSOLVED TIN (SN) (UG/L) (01100)	DISSOLVED TITANIUM (TI) (UG/L) (01150)
DEC 08...	530	31	6	390	.0	<2	<2	0	<1	110	<3	<1

DATE	DISSOLVED VANADIUM (V) (UG/L) (01085)	DISSOLVED ZINC (ZN) (UG/L) (01090)	DISSOLVED ZIRCONIUM (ZR) (UG/L) (01160)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	SUSPENDED GROSS BETA AS CS-137 (PC/L) (03516)	DISSOLVED GROSS BETA AS SR90/Y90 (PC/L) (80050)	SUSPENDED GROSS BETA AS SR90/Y90 (PC/L) (80060)	DISSOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DISSOLVED URANIUM (U) (UG/L) (80020)	TOTAL PCB (UG/L) (39516)
DEC 08...	<4.2	10	<4	5.4	.5	<.4	3.7	<.4	.20	<.01	.0

DATE	POLYCHLORINATED NAPHTHALENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLORDANE (UG/L) (39350)	TOTAL DDD (UG/L) (39360)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIAZINON (UG/L) (39570)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTACHLOR (UG/L) (39410)
DEC 08...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTACHLOR EPOXIDE (UG/L) (39420)	TOTAL LINDANE (UG/L) (39340)	TOTAL MALATHION (UG/L) (39530)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL METHYL TRITHION (UG/L) (39790)	TOTAL PARATHION (UG/L) (39540)	TOTAL TOXAPHENE (UG/L) (39400)	TOTAL TRITHION (UG/L) (39786)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
DEC 08...	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

351043090235901. Local number, 07N07E31CCC1.
LOCATION.--Lat 35°10'43", long 90°23'59", Hydrologic Unit 08020203, 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. 31, 1977, 18.69 ft (5.70 m) below land surface.

330906090104201. Local number 06N09E07CAC1.
LOCATION.--Lat 33°09'06", long 90°10'42", Hydrologic Unit 08020203.
Owner: City of West Memphis.
AQUIFER.--Sand, Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter, 16 in (0.41 m), depth 1,470 ft (448 m), cased 0-1,380 ft (0-420 m), screened 1,380-1,470 ft (420-448 m).
DATUM.--Land surface, 210 ft (64 m) above mean sea level.
REMARKS.--City well no. 5, water-quality records available: December 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
DEC 08...	1028	1028	1470	172	7.4	24.5	35	0	0	0	6	0

DATE	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
DEC 08...	1.3	.6	44	93	8.0	1.2	120	0	98	7.6	5.2	1.5

DATE	DISSOLVED SILICA (SIO2) (MG/L) (00955)	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)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOSPHORUS (P) (MG/L) (00665)
DEC 08...	9.3	129	130	129	.18	8	.00	.00	.00	.00	.17

DATE	DISSOLVED ARSENIC (AS) (UG/L) (01000)	DISSOLVED BARIUM (BA) (UG/L) (01005)	DISSOLVED BERYLLIUM (BE) (UG/L) (01010)	DISSOLVED BISMUTH (BI) (UG/L) (01015)	DISSOLVED BORON (B) (UG/L) (01020)	DISSOLVED CADMIUM (CD) (UG/L) (01025)	DISSOLVED CHROMIUM (CR) (UG/L) (01030)	DISSOLVED COBALT (CO) (UG/L) (01035)	DISSOLVED COPPER (CU) (UG/L) (01040)	DISSOLVED GALLIUM (GA) (UG/L) (01120)	DISSOLVED GERMANIUM (GE) (UG/L) (01125)
DEC 08...	0	20	<1	<1	50	0	10	<1	0	<1	<3

DATE	DISSOLVED IRON (FE) (UG/L) (01046)	DISSOLVED LEAD (PB) (UG/L) (01049)	DISSOLVED LITHIUM (LI) (UG/L) (01130)	DISSOLVED MANGANESE (MN) (UG/L) (01056)	DISSOLVED MERCURY (HG) (UG/L) (71890)	DISSOLVED MOLYBDENUM (MO) (UG/L) (01060)	DISSOLVED NICKEL (NI) (UG/L) (01065)	DISSOLVED SELENIUM (SE) (UG/L) (01145)	DISSOLVED SILVER (AG) (UG/L) (01075)	DISSOLVED STRONTIUM (SR) (UG/L) (01080)	DISSOLVED TIN (SN) (UG/L) (01100)
DEC 08...	360	5	10	5	.0	<1	2	0	<1	40	<2

DATE	DISSOLVED TITANIUM (TI) (UG/L) (01150)	DISSOLVED VANADIUM (V) (UG/L) (01085)	DISSOLVED ZINC (ZN) (UG/L) (01090)	DISSOLVED ZIRCONIUM (ZR) (UG/L) (01160)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	SUSPENDED GROSS BETA AS CS-137 (PC/L) (03516)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L) (80060)	DISSOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DISSOLVED URANIUM (U) (UG/L) (80020)
DEC 08...	210	2.9	0	<2	<1.3	<.4	<.4	1.3	<.4	.09	<.01

330906090104201. Local number, 06N09E07CAC1--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	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)	TOTAL ENDRIN (UG/L) (39390)
DEC 08...	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	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 METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	TOTAL TOX-APHENE (UG/L) (39400)	TOTAL TRI-THION (UG/L) (39786)
DEC 08...	.00	.00	.00	.00	.00	.00	.00	.00	0	.00

350843090105901. Local number, 06N09E18BBB1.
LOCATION.--Lat 35°08'43", long 90°10'59", Hydrologic Unit 08020203.
Owner: City of West Memphis.
AQUIFER.--Sand, Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10 in (0.25 m), depth 1,504 ft (458 m), cased 0-1,444 ft (0-440 m), screened 1,444-1,504 ft (440-458 m).
DATUM.--Land surface, 210 ft (64 m) above mean sea level. Measuring point: At brass plug in pump base, 3.85 ft (1.2 m) above land surface.
PERIOD OF RECORD.--March 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.75 ft (10.0 m) below land surface, Apr. 8, 1975; lowest, 36.95 ft (11.3 m) below land surface, Mar. 25, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 13, 1973	34.93	APR. 8, 1975	32.75	MAR. 25, 1977	36.95
MAR. 26, 1974	34.64	MAR. 18, 1976	32.85		

CROSS COUNTY

351542090332002. Local number, 07N05E03BCD2.
LOCATION.--Lat 35°15'42", long 90°33'20", Hydrologic Unit 08020203.
Owner: Parkin Water Company.
AQUIFER.--Sand, Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, depth 500 ft (152 m).
DATUM.--Land surface, 211 ft (64 m) above mean sea level. Measuring point: Top of pipe south side of pump, 1.0 ft (0.30 m) above land surface.
PERIOD OF RECORD.--November 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.99 ft (7.62 m) below land surface, Mar. 26, 1974; lowest, 28.40 ft (8.66 m) below land surface, Mar. 31, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 17, 1966	26.18	MAR. 19, 1969	25.41	APR. 4, 1973	25.55	MAR. 25, 1976	26.24
APR. 18, 1967	27.28	MAR. 24, 1970	26.20	MAR. 26, 1974	24.99	MAR. 31, 1977	28.40
MAY 29.....	26.67	MAR. 22, 1971	25.98	APR. 1, 1975	25.20		
APR. 14, 1969	26.30	MAR. 23, 1972	26.73	SEP. 10.....	27.65		

351544090334101. Local number, 07N05E04ADB1.
LOCATION.--Lat 35°15'44", long 90°33'41", Hydrologic Unit 08020203.
Owner: Parkin Water Company.
AQUIFER.--Sand, Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in (0.30 m), depth 462 ft (141 m).
DATUM.--Land surface, 206 ft (63 m) above mean sea level.
REMARKS.--Water-quality records available: December 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COL-LECTING SAMPLE (00027)	CODE FOR AGENCY ANA-LYZING SAMPLE (00028)	SAMP-LING 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)	IMME-DIATE COLI-FORM (COL. PER 100 ML) (31501)	FECAL COLI-FORM .7UM-MF (COL./ 100 ML) (31625)	STREP-TOCOCCI (COL-ONIES PER 100 ML) (31679)	HARD-NESS (CA,MG) (MG/L) (00900)	NON-CAR-BONATE HARD-NESS (MG/L) (00902)
DEC 08...	1028	1028	462	200	7.5	20.0	25	0	0	0	51	0

351544090334101. Local number, 07N05E04ADB1--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (MG/L) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	PERCENT SODIUM (00932)	SODIUM ADSORPTION RATIO (00931)	DIS-SOLVED 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)	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)
DEC 08...	14	4.0	22	45	1.3	5.4	130	0	107	6.6	3.1	2.6

DATE	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	TOTAL FILTRABLE RESIDUE (MG/L) (00515)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DIS-SOLVED ALUMINUM (AL) (UG/L) (01106)
DEC 08...	12	122	130	129	.17	2	.00	.00	.00	.00	.13	7

DATE	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	DIS-SOLVED BERYLLIUM (BE) (UG/L) (01010)	DIS-SOLVED BISMUTH (BI) (UG/L) (01015)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED CADMIUM (CD) (UG/L) (01025)	DIS-SOLVED CHROMIUM (CR) (UG/L) (01030)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	DIS-SOLVED GALLIUM (GA) (UG/L) (01120)	DIS-SOLVED GERMANIUM (GE) (UG/L) (01125)
DEC 08...	0	100	<1	<1	80	0	6	<1	0	<1	<3

DATE	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED MANGANESE (MN) (UG/L) (01056)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	DIS-SOLVED MOLYBDENUM (MO) (UG/L) (01060)	DIS-SOLVED NICKEL (NI) (UG/L) (01065)	DIS-SOLVED SELENIUM (SE) (UG/L) (01145)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	DIS-SOLVED STRONTIUM (SR) (UG/L) (01080)	DIS-SOLVED TIN (SN) (UG/L) (01100)	DIS-SOLVED TITANIUM (TI) (UG/L) (01150)
DEC 08...	930	6	7	30	.0	<1	<1	0	<1	210	<2	10

DATE	DIS-SOLVED VANADIUM (V) (UG/L) (01085)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED ZIRCONIUM (ZR) (UG/L) (01160)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	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)	TOTAL PCB (UG/L) (39516)
DEC 08...	<2.5	0	<2	4.8	.5	<.5	6.5	<.5	.27	<.01	.0

DATE	POLYCHLORINATED NAPHTHALENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLORDANE (UG/L) (39350)	TOTAL DDD (UG/L) (39360)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIAZINON (UG/L) (39570)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTACHLOR (UG/L) (39410)
DEC 08...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTACHLOR EPOXIDE (UG/L) (39420)	TOTAL LINDANE (UG/L) (39340)	TOTAL MALATHION (UG/L) (39530)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL METHYL TRITHION (UG/L) (39790)	TOTAL PARATHION (UG/L) (39540)	TOTAL TOXAPHENE (UG/L) (39400)	TOTAL TRITHION (UG/L) (39786)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
DEC 08...	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

352231090421501. Local number, 09N04E30DCA1.
LOCATION.--Lat 35°22'31", long90°42'15", Hydrologic Unit 08020205.
Owner: Vanndale-Birdeye Water Association.
AQUIFER.--Sand, Memphis aquifer of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well. Diameter 10 in (0.25 m), depth 1,148 ft (350 m), cased 0-1,038 ft (0-316 m), screened 1,038-1,148 ft (316-350 m).
DATUM.--Land surface, 429 ft (130 m) above mean sea level. Measuring point: Top of 1-in (0.03 m) pipe in pump base, 2.5 ft (0.76 m) above land surface.
REMARKS.--Water-quality records available: December 1976.
PERIOD OF RECORD.--July 26, 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 240.47 ft (73.3 m) below land surface, Mar. 22, 1976; lowest, 245.10 ft (74.7 m) below land surface, Mar. 26, 1974.

WATER LEVEL, IN FEET BELOW LAND SURFACE

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 26, 1973	242.34	APR. 1, 1975	244.10	MAR. 22, 1976	240.47
MAR. 26, 1974	245.10	SEPT. 23.....	240.83	APR. 6, 1977	242.50

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
DEC 07...	1028	1028	1148	508	7.7	21.5	6	0	0	0	250	0

DATE	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
DEC 07...	64	22	21	15	.6	2.0	340	0	279	11	10	2.8

DATE	DISSOLVED SILICA (SIO2) (MG/L) (00955)	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)	TOTAL NONFILTRABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED ALUMINUM (AL) (UG/L) (01106)
DEC 07...	15	300	310	306	.41	2	.01	.00	.01	.01	.10	30

DATE	DISSOLVED ARSENIC (AS) (UG/L) (01000)	DISSOLVED BARIUM (BA) (UG/L) (01005)	DISSOLVED BERYLLIUM (BE) (UG/L) (01010)	DISSOLVED BISMUTH (BI) (UG/L) (01015)	DISSOLVED BORON (B) (UG/L) (01020)	DISSOLVED CADMIUM (CD) (UG/L) (01025)	DISSOLVED CHROMIUM (CR) (UG/L) (01030)	DISSOLVED COBALT (CO) (UG/L) (01035)	DISSOLVED COPPER (CU) (UG/L) (01040)	DISSOLVED GALLIUM (GA) (UG/L) (01120)	DISSOLVED GERMANIUM (GE) (UG/L) (01125)
DEC 07...	1	60	<3	<3	5	0	7	<3	1	<3	<7

DATE	DISSOLVED IRON (FE) (UG/L) (01046)	DISSOLVED LEAD (PB) (UG/L) (01049)	DISSOLVED LITHIUM (LI) (UG/L) (01130)	DISSOLVED MANGANESE (MN) (UG/L) (01056)	DISSOLVED MERCURY (HG) (UG/L) (71890)	DISSOLVED MOLYBDENUM (MO) (UG/L) (01060)	DISSOLVED NICKEL (NI) (UG/L) (01065)	DISSOLVED SELENIUM (SE) (UG/L) (01145)	DISSOLVED SILVER (AG) (UG/L) (01075)	DISSOLVED STRONTIUM (SR) (UG/L) (01080)	DISSOLVED TIN (SN) (UG/L) (01100)	DISSOLVED TITANIUM (TI) (UG/L) (01150)
DEC 07...	980	<4	0	40	.0	<3	<3	0	<1	120	<4	<1

DATE	DISSOLVED VANADIUM (V) (UG/L) (01085)	DISSOLVED ZINC (ZN) (UG/L) (01090)	DISSOLVED ZIRCONIUM (ZR) (UG/L) (01160)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	SUSPENDED GROSS BETA AS CS-137 (PC/L) (03516)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L) (80060)	DISSOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DISSOLVED URANIUM (U) (UG/L) (80020)	TOTAL PCB (UG/L) (39516)
DEC 07...	<5.9	0	<6	<4.8	.4	<.5	3.3	<.5	.46	<.01	.0

35231090421501. Local number, 09N04E30DCA1--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	POLY-CHLORINATED NAPHTHALENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLORDANE (UG/L) (39350)	TOTAL DDD (UG/L) (39360)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIAZINON (UG/L) (39570)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTACHLOR (UG/L) (39410)
DEC 07...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTACHLOR EPOXIDE (UG/L) (39420)	TOTAL LINDANE (UG/L) (39340)	TOTAL MALATHION (UG/L) (39530)	TOTAL METHYL PARATHION (UG/L) (39600)	TOTAL METHYL TRITHION (UG/L) (39790)	TOTAL PARATHION (UG/L) (39540)	TOTAL TOXAPHENE (UG/L) (39400)	TOTAL TRITHION (UG/L) (39786)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
DEC 07...	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

351326090473603. Local number, 07N03E16CCC3.
LOCATION.--Lat 35°13'26", long 90°47'36", Hydrologic Unit 08020205, at Wynne (city well no. 3).
Owner: City of Wynne.
AQUIFER.--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, 74.45 ft (22.69 m) below land surface, Mar. 31, 1977.
MEASUREMENT FOR CURRENT YEAR.--Mar. 31, 1977, 74.45 ft (22.69 m) below land surface.

351456090423201. Local number, 07N04E07ABC1.
LOCATION.--Lat 35°14'56", long 90°42'32", Hydrologic Unit 08020203, near Princedale.
Owner: J. E. Hollan, Jr.
AQUIFER.--Sand and gravel of Quaternary age.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (0.41 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, 38.68 ft (11.79 m) below land surface, Sept. 16, 1975; lowest, 46.94 ft (14.31 m) below land surface, Jan. 14, 1965.
MEASUREMENT FOR CURRENT YEAR.--Apr. 1, 1977, 43.00 ft (13.11 m) below land surface.

352204091000201. Local number, 09N01E33BBA1.
LOCATION.--Lat 35°22'04", long 91°00'02", Hydrologic Unit 08020205, near Hickory Ridge.
Owner: H. H. Holleman.
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 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.90 ft (10.64 m) below land surface, June 19, 1957; lowest, 50.28 ft (15.33 m) below land surface, Apr. 5, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 5, 1977, 50.28 ft (15.33 m) below land surface.

DALLAS COUNTY

334830092245702. Local number, 10S13W34ACA2.
LOCATION.--Lat 33°48'30", long 92°24'57", Hydrologic Unit 08040201, 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. 15, 1977, 134.43 ft (40.97 m) below land surface.

334615091170501. Local number, 11S02W03CCA1.
LOCATION.--Lat 33°46'15", long 91°17'05", Hydrologic Unit 08050002, 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, 37.28 ft (11.36 m) below land surface, Apr. 6, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 6, 1977, 37.28 ft (11.36 m) below land surface.

335258091152301. Local number, 09S02W26DDC1.
LOCATION.--Lat 33°52'58", long 91°15'23", Hydrologic Unit 08050002, 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 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	13.08	12.31	11.19	10.56	12.85	14.06	16.20	17.77
10	---	---	---	---	13.17	12.02	11.17	10.62	13.16	14.45	16.43	17.81
15	---	---	---	---	12.97	11.77	11.19	10.83	13.53	14.93	16.75	17.81
20	---	---	---	---	12.97	11.69	11.25	11.14	13.78	15.30	17.12	17.28
25	---	---	---	---	12.78	11.92	10.77	11.94	13.89	15.63	17.38	16.98
EOM	---	---	---	---	12.73	11.76	10.83	12.50	13.96	15.98	17.66	16.76

WTR YEAR 1977 MAX 10.53 MAY 6, 7, 1977 MIN 17.81 SEPT. 9-17, 1977

335811091325601. Local number, 09S04W06BBC1.
LOCATION.--Lat 33°58'11", long 91°32'56", Hydrologic Unit 08050001, 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.--Apr. 5, 1977, 9.69 ft (2.95 m) below land surface.

DREW COUNTY

332418091272601. Local number, 15S04W12DDA1.
LOCATION.--Lat 33°24'18", long 91°27'26", Hydrologic Unit 08050001, 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, 45.49 ft (13.87 m) below land surface, Apr. 7, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 7, 1977, 45.49 ft (13.87 m) below land surface.

334545091383701. Local number, 11S05W08CCC1.
LOCATION.--Lat 33°45'45", long 91°38'37", Hydrologic Unit 08040205, 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.
PERIOD OF RECORD.--January 1965 to March 1968, March 1970 to March 1975, March to September 1977.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.47 ft (8.98 m) below land surface, May 6, 1965; lowest, 36.03 ft (10.98 m) below land surface, Apr. 7, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 7, 1977, 36.03 ft (10.98 m) below land surface.

334601091412101. Local number, 11S06W11DBC1.
LOCATION.--Lat 33°46'01", long 91°41'21", Hydrologic Unit 08040205, 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, 119.33 ft (36.37 m) below land surface, Apr. 7, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 7, 1977, 119.33 ft (36.37 m) below land surface.

FULTON COUNTY

362207091492401. Local number, 20N08W27ABD1.
LOCATION.--Lat 36°22'07", long 91°49'24", Hydrologic Unit 11010010, 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.--Apr. 20, 1977, 15.30 ft (4.66 m) below land surface.

362338091590401. Local number, 20N09W18CAD1.
LOCATION.--Lat 36°23'38", long 91°59'04", Hydrologic Unit 11010006, at Viola.
Owner: City of Viola.
AQUIFER.--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: 1¼-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, Nov. 20, 1975; lowest, 137.91 ft (42.03 m) below land surface, Apr. 20, 1977.
MEASEASUREMENT FOR CURRENT YEAR.--Apr. 13, 1977, 33.12 ft (10.09 m) below land surface.

GREENE COUNTY

360322090290401. Local number, 17N06E31DCB1.
LOCATION.--Lat 36°03'22", long 90°29'04", Hydrologic Unit 08020203.
Owner: City of Paragould.
AQUIFER.--Sand, Wilcox Group of Eocene age.
WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 20 in (0.51 m), depth 507 ft (155 m), screened 467-507 ft (142-155 m).
DATUM.--Land surface, 285 ft (87 m) above mean sea level. Measuring point: Pipe in east side of pump base, 1.00 ft (0.30 m) above land surface.
REMARKS.--Water-quality records available: December 1976.
PERIOD OF RECORD.--March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.25 ft (22.33 m) below land surface, Apr. 13, 1967; lowest, 97.37 ft (29.68 m) below land surface, Mar. 31, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 2, 1967	77.03	MAR. 31, 1970	97.37	APR. 14, 1972	84.10	APR. 9, 1975	79.34
APR. 13.....	73.25	MAR. 30, 1971	82.70	APR. 10, 1973	84.07	MAR. 22, 1976	84.14
APR. 12, 1968	78.15	APR. 7, 1972	90.84	MAR. 29, 1974	86.50	APR. 13, 1977	88.40
MAR. 25, 1969	76.99						

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SAMPLING DEPTH (FT) (00003)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)	NONCARBONATE HARDNESS (MG/L) (00902)
DEC 09...	1028	1028	505	231	7.4	20.0	8	0	0	0	11	0

DATE	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)	DISSOLVED SULFATE (SO4) (MG/L) (00945)	DISSOLVED CHLORIDE (CL) (MG/L) (00940)
DEC 09...	2.5	1.2	59	90	7.7	2.3	164	0	135	10	4.8	2.1

360322090290401. Local number, 17N06E31DCB1--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SILICA (SIO2) (MG/L) (00955)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) (70300)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L) (70301)	DIS-SOLVED SOLIDS (TONS PER AC-FT) (70303)	TOTAL NON-FILT-RABLE RESIDUE (MG/L) (00530)	TOTAL NITRATE (N) (MG/L) (00620)	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOS-PHORUS (P) (MG/L) (00665)	DIS-SOLVED ALUM-INUM (AL) (UG/L) (01106)
DEC 09...	11	157	180	165	.21	<1	.00	.00	.00	.00	.37	120

DATE	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	DIS-SOLVED BERYL-LIUM (BE) (UG/L) (01010)	DIS-SOLVED BISMUTH (BI) (UG/L) (01015)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED CAD-MIUM (CD) (UG/L) (01025)	DIS-SOLVED CHRO-MIUM (CR) (UG/L) (01030)	DIS-SOLVED COBALT (CO) (UG/L) (01035)	DIS-SOLVED COPPER (CU) (UG/L) (01040)	DIS-SOLVED GALLIUM (GA) (UG/L) (01120)	DIS-SOLVED GER-MANIUM (GE) (UG/L) (01125)
DEC 09...	0	8	<2	<2	180	0	3	<2	0	<2	<4

DATE	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L) (01060)	DIS-SOLVED NICKEL (NI) (UG/L) (01065)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	DIS-SOLVED STRON-TIUM (SR) (UG/L) (01080)	DIS-SOLVED TIN (SN) (UG/L) (01100)	DIS-SOLVED TI-TANIUM (TI) (UG/L) (01150)
DEC 09...	180	<2	30	7	.0	<2	2	0	<1	50	<2	5

DATE	DIS-SOLVED VANA-DIUM (V) (UG/L) (01085)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L) (01160)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L) (80040)	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)	TOTAL PCB (UG/L) (39516)
DEC 09...	<3.1	0	<3	<2.3	<.4	<.5	4.0	<.5	.08	<.01	.0

DATE	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	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)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTA-CHLOR (UG/L) (39410)
DEC 09...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)	TOTAL LINDANE (UG/L) (39340)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	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)
DEC 09...	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

360219090262501. Local number, 16N06E03CCC1.
LOCATION.--Lat 36°02'19", long 90°26'25", Hydrologic Unit 08020203, 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.--Apr. 13, 1977, 33.12 ft (10.09 m) below land surface.

334345093373701. Local number, 12S24W06CDC1.
LOCATION.--Lat 33°43'45", long 93°37'37", Hydrologic Unit 11140201, at Hope (city well no. 5).
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 1,156 ft (352 m).
Cased 0-114 ft (0-340 m), screened 1114-1156 ft (340-352 m).
DATUM.--Land surface, 355 ft (108 m) above mean sea level. Measuring point: Hole in west side of pump base, 1.50 ft (0.46 m) above land surface.
PERIOD OF RECORD.--April 1972 to current year.
EXTREMES FOR PERIOD OF RECORD:--Highest water level measured, 97.02 ft (29.57 m) below land surface, Apr. 14,1972; lowest, 180.38 ft (54.98 m) below land surface, Apr. 7, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 14, 1972	97.02	MAR. 31, 1975	161.22	APR. 7, 1977	180.38
APR. 19, 1973	117.05	MAR. 23, 1976	168.91	APR. 4, 1978	179.60

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
JAN 31...	1028	1028	828	8.5	30.0	4	0	0	0	3

DATE	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)
JAN 31...	0	.8	.3	200	99	48	.9	268	8

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)	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)	TOTAL NITRATE (N) (MG/L) (00620)
JAN 31...	233	1.4	64	110	13	538	530	.73	.01

DATE	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED ARSENIC (AS) (UG/L) (01000)	DISSOLVED CADMIUM (CD) (UG/L) (01025)	DISSOLVED CHROMIUM (CR) (UG/L) (01030)	DISSOLVED COBALT (CO) (UG/L) (01035)	DISSOLVED COPPER (CU) (UG/L) (01040)
JAN 31...	.00	.01	.03	.53	0	0	0	0	1

DATE	DISSOLVED IRON (FE) (UG/L) (01046)	DISSOLVED LEAD (PB) (UG/L) (01049)	DISSOLVED LITHIUM (LI) (UG/L) (01130)	DISSOLVED MANGANESE (MN) (UG/L) (01056)	DISSOLVED MERCURY (HG) (UG/L) (71890)	DISSOLVED SELENIUM (SE) (UG/L) (01145)	DISSOLVED ZINC (ZN) (UG/L) (01090)	DISSOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DISSOLVED URANIUM (U) (UG/L) (80020)	TOTAL PCB (UG/L) (39516)	POLYCHLORINATED NAPHTHALENES (UG/L) (39250)
JAN 31...	80	1	20	0	.0	0	60	.10	<.01	.0	.00

DATE	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLORDANE (UG/L) (39350)	TOTAL DDD (UG/L) (39360)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DIAZINON (UG/L) (39570)	TOTAL DIELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTACHLOR (UG/L) (39410)	TOTAL HEPTACHLOR EPOXIDE (UG/L) (39420)
JAN 31...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

334345093373701. Local number, 12S24W06CDC1--Continued

DATE	TOTAL LINDANE (UG/L) (39340)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	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)
JAN 31...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

334358093370101. Local number, 12S24W06DAD1.
LOCATION.--Lat 33°43'58", long 93°37'01", Hydrologic Unit 11140201, at Hope (city well no. 2).
Owner: City of Hope.
AQUIFER.--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, 163.48 ft (49.83 m) below land surface, Apr. 7, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 7, 1977, 163.48 ft (49.83 m) below land surface.

JACKSON COUNTY

353323091213701. Local number, 11N03W30CBA1.
LOCATION.--Lat 35°33'23", long 91°21'37", Hydrologic Unit 11010013, 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.--Apr. 1, 1977, 19.32 ft (5.89 m) below land surface.

JEFFERSON COUNTY

340901091564601. Local number, 07S08W06BAA1.
LOCATION.--Lat 34°09'01", long 91°56'46", Hydrologic Unit 08040205, 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.--Apr. 25, 1977, 11.97 ft (3.65 m) below land surface.

341043091562201. Local number, 06S08W30AAA1.
LOCATION.--Lat 34°10'43", long 91°56'22", Hydrologic Unit 08040205, 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, 207.98 ft (63.39 m) below land surface, June 15, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	202.41	202.57	203.55	202.13	202.93	206.03	205.14	205.88	207.43	205.92	205.58	205.29
10	202.72	202.47	203.32	203.22	204.10	205.28	204.97	205.91	207.69	202.79	205.82	203.46
15	202.94	202.34	203.43	203.73	205.09	204.93	205.05	206.48	207.95	203.28	206.68	204.96
20	202.94	202.58	203.90	204.80	205.71	205.21	205.46	206.72	207.64	203.98	206.68	205.91
25	202.17	202.20	203.63	204.81	206.02	205.42	206.08	207.26	207.76	204.52	207.26	206.18
EOM	201.64	202.62	200.31	203.28	206.16	205.39	206.28	207.56	207.38	205.34	207.03	205.83

WTR YEAR 1977 MAX 199.18 DEC. 29, 1976 MIN 207.98 JUNE 15, 1977

341138091551601. Local number, 06S08W16CCC1.
LOCATION.--Lat 34°11'38", long 91°55'16", Hydrologic Unit 08040205, 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, 221.79 ft (67.60 m) below land surface, Apr. 25, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 25, 1977, 221.79 ft (67.60 m) below land surface.

341151092022101. Local number, 06S09W17CCA1.
LOCATION.--Lat 34°11'51", long 92°02'21", Hydrologic Unit 08040205, 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, at 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. 25, 1977, 234.33 ft (71.42 m) below land surface.

341427091565201. Local number, 05S09W35AAB1.
LOCATION.--Lat 34°14'27", long 91°56'52", Hydrologic Unit 11110207, 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, Apr. 25, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 25, 1977, 250.73 ft (76.42 m) below land surface.

342116091474501. Local number, 04S07W17CCB1.
LOCATION.--Lat 34°21'16", long 91°47'45", Hydrologic Unit 08020401, 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 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.--Apr. 5, 1977, 33.18 ft (10.11 m) below land surface.

LAFAYETTE COUNTY

330804093435501. Local number, 19S25W06ABD1.
LOCATION.--Lat 33°08'04", long 93°43'55", Hydrologic Unit 11140201, 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. 19, 1977, 12.31 ft (3.75 m) below land surface.

332145093280402. Local number, 16S23W10DCA2.
LOCATION.--Lat 33°21'45", long 93°28'04", Hydrologic Unit 11140203, near Stamps.
Owner: Arkansas Power and Light Company.
AQUIFER.--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. 19, 1977, 59.10 ft (18.01 m) below land surface.

344203090411601. Local number, 01N04E09DCC1.
LOCATION.--Lat 34°42'03", long 90°41'16", Hydrologic Unit 08020203, near Marianna.
Owner: U.S. Geological Survey.
AQUIFER.--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, 18.62 ft (5.68 m) below land surface, Mar. 24, 1977.
MEASUREMENT FOR CURRENT YEAR.--Mar. 24, 1977, 18.62 ft (5.68 m) below land surface.

344341090460001. Local number, 01N03E02BBC1.
LOCATION.--Lat 34°43'41", long 90°46'00", Hydrologic Unit 08020304, 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. 23, 1977, 43.26 ft (13.19 m) below land surface.

LITTLE RIVER COUNTY

333717094254501. Local number, 13S32W21CCB1.
LOCATION.--Lat 33°37'17", long 94°25'45", Hydrologic Unit 11140106, 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. 30, 1977, 3.65 ft (1.11 m) below land surface.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
FEB 01...	1028	1028	1130	7.0	17.0	3	0	0	0	640

DATE	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)
FEB 01...	0	170	52	13	4	.2	2.0	818	0

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)	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)	TOTAL NITRATE (N) (MG/L) (00620)
FEB 01...	671	131	10	7.6	21	652	687	.89	.01

DATE	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED ARSENIC (AS) (UG/L) (01000)	DISSOLVED CADMIUM (CD) (UG/L) (01025)	DISSOLVED CHROMIUM (CR) (UG/L) (01030)	DISSOLVED COBALT (CO) (UG/L) (01035)	DISSOLVED COPPER (CU) (UG/L) (01040)
FEB 01...	.00	.01	.00	.17	5	0	0	0	6

333717094254501. Local number, 13S32W21CCB1--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS-SOLVED URANIUM (U) (UG/L) (80020)	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)
FEB											
01...	6900	0	20	410	.0	0	360	.38	.10	.0	.00

DATE	TOTAL ALDRIN (UG/L) (39330)	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)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTA-CHLOR (UG/L) (39410)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)
FEB											
01...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L) (39340)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	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)
FEB										
01...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

333951094071501. Local number, 13S29W05ABC1.
LOCATION.--Lat 33°39'51", long 94°07'15", Hydrologic Unit 11140109, 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. 30, 1977, 44.55 ft (13.58 m) below land surface.

LONOKE COUNTY

344607091543401. Local number, 02N08W30CAB1.
LOCATION.--Lat 34°46'07", long 91°54'34", Hydrologic Unit 08020402, 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, 104.81 ft (31.95 m) below land surface, Aug. 18, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	99.95	99.29	98.79	98.41	98.70	98.53	99.57	99.78	100.93	102.47	103.60	104.45
10	99.91	98.90	98.76	98.59	98.54	98.33	100.04	99.34	100.91	102.86	103.69	104.03
15	99.54	98.88	98.46	98.63	98.49	98.64	99.09	99.37	101.95	102.74	104.43	103.18
20	99.66	98.68	98.59	99.85	98.38	98.97	99.06	99.37	101.41	103.32	104.16	102.71
25	99.20	98.79	98.23	99.06	98.11	99.26	99.36	99.41	101.07	103.73	104.07	102.15
EOM	99.35	99.12	98.76	99.09	98.62	99.67	100.25	100.52	---	102.97	103.95	102.24

WTR YEAR 1977 MAX 97.55 FEB. 23, 1977 MIN 104.81 AUG. 18, 1977

344955091565301. Local number, 02N09W02BCB1.
LOCATION.--Lat 34°49'55", long 91°56'53", Hydrologic Unit 08020402, 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 (14.55 m) below land surface, Mar. 28, 1937; lowest, 97.06 ft (29.58 m) below land surface, Aug. 30, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1	91.25	DEC. 29	95.10	MAR. 30	87.58	JUNE 29	92.80	SEPT. 28	95.80
29	90.13	JAN. 27	89.70	APR. 27	89.66	JULY 27	95.80		
NOV. 29	91.28	FEB. 24	90.10	MAY 25	90.40	AUG. 16	97.06		

334410094461401. Local number, 15S26W34AAA1.
LOCATION.--Lat 33°24'41", long 93°46'14", Hydrologic Unit 11140201, 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. 19, 1977, 5.97 ft (1.82 m) below land surface.

MISSISSIPPI COUNTY

355213090072701. Local number, 11N09E34BBB1.
LOCATION.--Lat 35°32'13", long 90°07'27", Hydrologic Unit 08020203, 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.--Apr. 7, 1977, 12.10 ft (3.69 m) below land surface.

355024090034601. Local number, 14N10E18ABC1.
LOCATION.--Lat 35°50'24", long 90°03'46", Hydrologic Unit 08020203, 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.--Apr. 12, 1977, 12.70 ft (3.87 m) below land surface.

355607090152601. Local number, 15N08E08DBC1.
LOCATION.--Lat 35°56'07", long 90°15'26", Hydrologic Unit 08020204, at Leachville.
Owner: City of Leachville.
AQUIFER.--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 files 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.--Apr. 12, 1977, 9.70 ft (2.96 m) below land surface.

MONROE COUNTY

344135091165101. Local number, 01N03W24BBB1.
LOCATION.--Lat 34°41'35", long 91°16'51", Hydrologic Unit 08020303, 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.--Mar. 23, 1977, 22.43 ft (6.84 m) below land surface.

NEVADA COUNTY

334757093231501. Local number, 11S22W08DAC1.
LOCATION.--Lat 33°47'57", long 93°23'15", Hydrologic Unit 08040103, at Prescott (city well no. 1)
Owner: City of Prescott.
AQUIFER.--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.--Apr. 7, 1977, 121.15 ft (36.93 m) below land surface.

334759093231301. Local number, 11S22W08DAC2.
LOCATION.--Lat 33°47'59", long 93°23'13", Hydrologic Unit 08040103, 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.--Apr. 7, 1977, 130.46 ft (39.76 m) below land surface.

OUACHITA COUNTY

334018092594801. Local number, 12S18W19CDC1.
LOCATION.--Lat 33°40'18", long 92°59'48", Hydrologic Unit 08040102, 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, 42.71 ft (13.02 m) below land surface, Mar. 31, 1975; lowest, 53.20 ft (16.22 m) below land surface, Oct. 1, 1970.
MEASUREMENT FOR CURRENT YEAR.--Apr. 15, 1977, 44.84 ft (13.67 m) below land surface.

334215092413201. Local number, 12S16W12ADB1.
LOCATION.--Lat 33°42'15", long 92°41'32', Hydrologic Unit 08040102, 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. 15, 1977, 22.61 ft (6.89 m) below land surface.

PHILLIPS COUNTY

341534090563001. Local number, 05S02E18BDA1.
LOCATION.--Lat 34°15'34", long 90°56'30", Hydrologic Unit 08020303, 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.--Mar. 24, 1977, 21.65 ft (6.60 m) below land surface.

342856090363601. Local number, 02S05E29CCC1.
LOCATION.--Lat 34°28'56", long 90°36'36", Hydrologic Unit 08020303, 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), cased 0-278 ft (0-85 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, 42.39 ft (12.92 m) below land surface, Aug. 29, 1976; lowest, 98.13 ft (29.91 m) below land surface, July 13, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	71.69	64.37	66.01	---	52.32	63.98	66.43	65.95	62.11	62.12	61.49	61.52
10	64.72	67.47	63.10	---	50.17	64.67	67.17	62.52	62.67	60.17	62.21	62.16
15	64.56	58.19	63.38	---	59.12	65.70	68.47	63.05	54.83	61.33	60.47	61.25
20	62.33	63.29	63.37	---	64.72	68.55	66.76	63.93	57.57	61.02	62.09	60.63
25	63.38	63.42	66.32	---	68.05	69.08	66.75	64.07	63.47	61.01	62.55	62.09
EOM	63.12	61.11	---	---	66.17	68.97	67.67	64.07	62.00	61.55	61.39	55.86

WTR YEAR 1977 MAX 48.87 SEPT. 29, 1977 MIN 72.86 OCT. 4, 1976

343108090462601. Local number, 02S03E15ACD1.
LOCATION.--Lat 34°31'08", long 90°46'26", Hydrologic Unit 08020304, 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, 16.40 ft (5.00 m) below land surface, Sept. 1, 2, 1976.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	16.18	---	15.24	13.70	13.10	13.78	15.22	---	---	---
10	---	16.27	16.14	---	15.21	13.76	13.08	13.95	15.40	---	---	---
15	---	16.26	16.10	---	15.04	---	13.23	14.12	15.39	15.83	---	---
20	---	16.24	---	---	14.78	---	13.43	14.41	15.00	15.96	---	---
25	---	16.23	---	---	14.48	13.70	13.46	14.71	---	---	---	---
EOM	---	16.20	---	---	14.33	13.71	13.67	15.01	---	---	---	---

WTR YEAR 1977 MAX 12.98 APR. 7, 1977 MIN 16.37 OCT. 17, 1977

POINSETT COUNTY

352930090582501. Local number, 10N01E15DBB1.
LOCATION.--Lat 35°29'30", long 90°58'25", Hydrologic Unit 08020205, at Fisher.
Owner: City of Fisher.
AQUIFER.--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, 58.15 ft (17.72 m) below land surface, Apr. 11, 1977.
MEASUREMEMT FOR CURRENT YEAR.--Apr. 11, 1977, 58.15 ft (17.72 m) below land surface.

PRAIRIE COUNTY

343639091335201. Local number, 01S05W20ABB1.
LOCATION.--Lat 34°36'39", long 91°33'52", Hydrologic Unit 08020303, 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, 120.68 ft (36.78 m) below land surface, Mar. 28, 1977.
MEASUREMENT FOR CURRENT YEAR.--Mar. 28, 1977, 120.68 ft (36.78 m) below land surface.

344644091382801. Local number, 02N06W21DAD1.
LOCATION.--Lat 34°46'44", long 91°38'28", Hydrologic Unit 08020303, 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. 25, 1977, 97.68 ft (29.77 m) below land surface.

345843091344601. Local number, 04N05W07CDC1.
LOCATION.--Lat 34°58'43", long 91°34'46", Hydrologic Unit 08020301, 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. 29, 1977, 56.59 ft (17.25 m) below land surface.

345848090521903. Local number, 04N02E03DDD3.
LOCATION.--Lat 34°58'48", long 90°52'19", Hydrologic Unit 08020205, 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. 23, 1977, 30.37 ft (9.26 m) below land surface.

350029090265801. Local number, 05N06E34CAB1.
LOCATION.--Lat 35°00'29", long 90°26'58", Hydrologic Unit 08020203, 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, 16.59 ft (5.06 m) below land surface, Mar. 31, 1975; lowest, 26.13 ft (7.96 m) below land surface, Mar. 18, 1966.
MEASUREMENT FOR CURRENT YEAR.--Mar. 25, 1977, 20.81 ft (6.34 m) below land surface.

SEVIER COUNTY

335808094100101. Local number, 09S30W23BDD1.
LOCATION.--Lat 33°58'08", long 94°10'01", Hydrologic Unit 11140109, at Lockesburg.
Owner: City of Lockesburg.
AQUIFER.--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, 76.12 ft (23.20 m) below land surface, Mar. 31, 1977.
MEASUREMENT FOR CURRENT YEAR.--Mar. 31, 1977, 76.12 ft (23.20 m) below land surface.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CODE FOR AGENCY COLLECTING SAMPLE (00027)	CODE FOR AGENCY ANALYZING SAMPLE (00028)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	IMMEDIATE COLIFORM (COL. PER 100 ML) (31501)	FECAL COLIFORM .7UM-MF (COL./ 100 ML) (31625)	STREPTOCOCCI (COLONIES PER 100 ML) (31679)	HARDNESS (CA,MG) (MG/L) (00900)
FEB 01...	1028	1028	50	5.5	18.5	2	0	0	0	10

DATE	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)
FEB 01...	0	2.1	1.1	3.3	39	.5	1.2	16	0

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)	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)	TOTAL NITRATE (N) (MG/L) (00620)
FEB 01...	13	81	3.4	3.7	14	32	38	.00	.27

DATE	TOTAL NITRITE (N) (MG/L) (00615)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DISSOLVED ARSENIC (AS) (UG/L) (01000)	DISSOLVED CADMIUM (CD) (UG/L) (01025)	DISSOLVED CHROMIUM (CR) (UG/L) (01030)	DISSOLVED COBALT (CO) (UG/L) (01035)	DISSOLVED COPPER (CU) (UG/L) (01040)
FEB 01...	.00	.27	.27	.02	0	0	0	0	6

335808094100101. Local number, 09S30W23BDD1--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED LEAD (PB) (UG/L) (01049)	DIS-SOLVED LITHIUM (LI) (UG/L) (01130)	DIS-SOLVED MAN-GANESE (MN) (UG/L) (01056)	DIS-SOLVED MERCURY (HG) (UG/L) (71890)	DIS-SOLVED SELE-NIUM (SE) (UG/L) (01145)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS-SOLVED URANIUM (U) (UG/L) (80020)	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)
FEB 01...	90	0	10	10	.0	0	10	.38	.10	.0	.00

DATE	TOTAL ALDRIN (UG/L) (39330)	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)	TOTAL ENDRIN (UG/L) (39390)	TOTAL ETHION (UG/L) (39398)	TOTAL HEPTA-CHLOR (UG/L) (39410)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)
FEB 01...	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L) (39340)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL METHYL TRI-THION (UG/L) (39790)	TOTAL PARA-THION (UG/L) (39540)	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)
FEB 01...	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

UNION COUNTY

330107092432301. Local number, 19S16W35DDC1.
LOCATION.--Lat 33°01'07", long 92°43'23", Hydrologic Unit 08040206, 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, 211.17 ft (64.36 m) below land surface, Apr. 15, 1977.
MEASUREMENT FOR CURRENT YEAR.--Apr. 15, 1977, 211.17 ft (64.36 m) below land surface.

330228092110101. Local number, 19S10W19CCB2.
LOCATION.--Lat 33°02'28", long 92°11'01", Hydrologic Unit 08040202, 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.--Apr. 13, 1977, 85.51 ft (26.06 m) below land surface.

331358092424301. Local number, 17S16W24BAC1.
LOCATION.--Lat 33°13'58", long 92°42'43", Hydrologic Unit 08040201, 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. 14, 1977, 323.72 ft (98.67 m) below land surface.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

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)	TEMPER-ATURE (DEG C) (00010)	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)	TOTAL FILT-RABLE RESIDUE (MG/L) (00515)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L) (09511)
AUG 31...	1028	1028	447	7.8	23.0	240	0	197	6.1	280	1.0

331358092424301. Local number, 17S16W24BAC1--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED URANIUM (U) (UG/L) (80020)	TOTAL PCB (UG/L) (39516)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L) (39250)	TOTAL ALDRIN (UG/L) (39330)	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)	TOTAL ENDRIN (UG/L) (39390)
AUG 31...	.01	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	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)	TOTAL MIREX (UG/L) (39755)	TOTAL PARA-THION (UG/L) (39540)	TOTAL TRI-THION (UG/L) (39786)
AUG 31...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

331438092411901. Local number, 17S15W18DBB1.
LOCATION.--Lat 33°14'38", long 92°41'19", Hydrologic Unit 08040201, 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 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	330.45	327.09	323.62	323.04	325.49	323.96	323.15	323.65	327.50	332.37	334.44	335.99
10	329.93	326.02	323.29	324.37	325.47	324.26	323.86	323.41	328.92	333.43	333.87	335.07
15	329.77	324.96	322.87	325.18	324.94	324.38	323.85	323.68	330.55	334.19	334.95	335.17
20	328.75	324.83	323.01	325.43	325.10	325.86	323.72	323.93	329.69	335.54	335.60	334.16
25	327.88	324.08	322.66	325.35	323.89	325.15	323.83	324.85	330.00	336.26	335.27	334.15
EOM	327.49	323.32	322.03	324.96	323.91	323.98	324.03	325.75	330.21	335.23	335.52	334.30

WTR YEAR 1977 MAX 321.89 JAN. 1, 1977 MIN 336.58 SEPT. 3, 1977

330855092505601. Local number, 18S17W22BDD1.
LOCATION.--Lat 33°08'55", long 92°50'56", Hydrologic Unit 08040206, 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, 333.80 ft (101.74 m) below land surface, Sept. 28, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	331.32	331.57	331.29	331.11	331.17	331.10	330.97	330.74	331.11	331.83	332.74	333.40
10	331.49	331.44	331.23	331.11	331.25	330.96	331.06	330.73	331.21	331.94	332.88	333.57
15	331.53	331.43	331.14	330.96	331.22	330.96	330.94	330.77	331.30	332.18	333.06	333.63
20	331.65	331.30	331.16	331.10	331.21	330.97	330.79	330.82	331.35	332.31	333.16	333.66
25	331.47	331.33	331.05	331.11	331.03	331.00	330.86	330.87	331.51	332.42	333.24	333.67
EOM	331.56	331.39	331.17	331.22	331.24	331.05	330.89	330.98	331.62	332.55	333.34	333.68

WTR YEAR 1977 MAX 330.67 MAY 9, 1977 MIN 333.80 SEPT. 28, 1977

WOODRUFF COUNTY

351657091203101. Local number, 08N03W31AAD1.
LOCATION.--Lat 35°16'57", long 91°20'31", Hydrologic Unit 08020302, 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.--Apr. 5, 1977, 19.13 ft (5.83 m) below land surface.

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FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
	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}	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	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	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	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}	megagrams (Mg) or metric tons

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